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## MONTHLY REVIEW:

DEVOTED TO THE

## CIVIL GOVERNMENT OF CANADA.

Voc. 1.]

JUNE, 1841.
[No. VI.

## THE CANADIAN MAGISTRACY.

Wars the Emperor Alexandcr of Russia visited England in 1814, at the head of the briliiant array of the Kings and Princes of liberated Europe, after a careful examination of the working of our matchless constitution, and the hap $\vee$ balance preserved by it between t:c three estates of the realm, he expressed himself particularly struck with one important feature in the social aspect of Great Britan,--her unpaid Magistracy. At that period at least, such a body was unknown among Earopean nations, and the enlightened Russian was loud in his praises of the wisdom that dictated the es:ablishment of such a system, and of the palpable good effects of its operation.
By such an arrangement the country was studded as it were with an ample number of volunteer judges of right and wrong,-sworn conservators of public peare,-watchful censors of general decency and morali.y, and ever accessible guard:ans of the pritieyes of the r.ch and the liberties of the poor. In a country like Engiand, possessed of a numerous and respect. able aristocracy, there was little danger of the powers of the magistracy, except in a very $f \in w$ instances, being vested in dangerous, mean, or anworthy hands. Every Justice of the Peace was in his local position the representative and minister of the Head Executive of the country, -the centre and pivot in his peculiar circle round wiich revolved the admirable machinery of local municipal law. His powers werogreat, but guarded against prostitution or abnse.-

Life, properisy, and liberty, could run but trifing risk from lis unworthness of his high office,in minor cases he was the judge of gult and innocence, but an appeal lay almost alwass from an unrightious i ceisun, -in grave matters he was but the cuquircr alter delinquenes,-mi is puniohment was protuunced bs a mure solemn tribural. In shurt, the greatest possible ndvantages were derised from the institu ion of the magistrucy, with the least pussible risk of permanent inischief resulung from the chance misconduct of any of its members.
In all countries of this vast empire to whick the blessings of Britist. institutions have been exiended, the system of the unpaid mogistracy has been regularly introduced. 'The same machinery has been set in motion, but the materials of which it is made are of a whely diffirent nature. The Enghoh gentry possessed within themselves admirable elements for the formation of local langivers. In the course of the ordnary collegiate educution of the sons of the upper classes, the wisdom of modern yeira has judiciously determined that a knowledge, even a superficial one, of the laws and consiltution of this country was equally deairableand advantageous, and at many of the leading schools, and at the universties, it became no uncommon brancil of the ordinary stuaies of the young Yatrician. If destuned for the Parliamentary arena, it became almost an essential. $\Lambda$ fer years of political experience gave to even the dullest tyio a strong dea of the gen-
eral scope and tendency of the great scheme of Englash jurisprudence, and when the politician became merged in the country gentleman, the constitutional knowledge gleaned in the stormy lututude of St. Stephens; helped to guide the Justice of the Quoruin in his useful task.

But in the Colonies the case has been widely different. It is almost needless for us to remind our readers, that in them no class exists in any respect anal gous to that from whose ranks the magistracy of England is selected. A glance at the state of Upper Canada will shew the real difference at once. We speak it not with the slightest disparagement to the country we live in, and least of all to the highly respectable and respected individuals holding the Commission of the Peace. Nagistrates had to be appointed, and the government had to avail itself of the only materials within its reach. The general character of the early settlers in a new country, - the description of people that attain most rapidly to property and influence, and become conspicuous in an essentially money-making community, all these things are too well known to render it necessary for us to illustrate our position by example or further assertion, when we maintain that a system which could work so admirably among a population like that of England, where ranks are strongly marked and broadly divided, might in a country like Canada be open to many objections, and e::sceptible of much $n$ scessary iniprovement. The English Justice of the P'eace occupied a far different position, in relation to the rural population around him, from the Canadian. The former was generally the great man of a small commumity,-the 'Squire' of the village Ccmmonwealth,--whose fathers perhaps for ages before him had borne a similar designation, and excresised sumiar functions.Heace among a quict population, a deep-rooted feeling of respect, frequently blended with affection, encircled the honoured tribunal of the magıstrate, and invested his decisions and general authority with a weiglt and influence which materially increased his uscfulness. In Canada the reverse was the case. A new township was about being filled up, settlers of all classes were thronging into it, and the Government appointed those whom it cunccir. ed most eligible from information and position to the Commission of the Peace. But in the exercise of their functions they experienced
much difficulty. They were almost periect strangers to the people over whom they wers invested with local authority. They had not the advantage of rank, wealth, or the recollentions of ancient descent to raise them in tho estimation of their neighbours; they had generally to follow the same occupations, and but small respect, and less moral influence did they naturally enjos. We recollect the Arch-Rebel Mackenzie, in one of his grievance-hunting productions, making us smile at one of his assertions, which we believe was not wholly destitute of truth, - that in one township settled in Lord Seaton's time, there were $f_{\text {nurteen }}$ horses, and fifteen ragistrates. A speaking illustration of the social position of $s$ new country.

Although Canada can be advantageously compared with most other countries as to the frequency of crime, yet it cannot be a matter of wonder to find that her present establishment of police and magistracy is wholly inadequate even to the wants of her thinly peopled country. In England, it was soon perceived, that if an active and rigid maintenance of the law were required, the system of uhpaid magistrates must be materially modified. It is a maxim well understnod in most countries, that if you want any thing well done you must pay for it. In large towns it was at once obvious that a police force must be regularly organized. and officers armed with proper authority mast be paid to direct and command it. In densely popilated parts of the country also, it was deemed udvalile that a stipendiary magistrate should be always within reach,-ma regularly pasd official, whose duty it was to be ever on the alert to detect and prevent if possible the occurrence of crime. England, Ireland, and Scotland, are nuw fully furnished with stipendiarles, and never was money better expended than in keeping upsuch indispensable guardians of thepublic peace. Inthelarge towns,police magistrates with adequate salaries sit daily for the regular dispatch of business, and can be found at all huurs, and at the shortest notice, should their aid be suddenly required. Did the peace of the community depend on the voluntary assistance or activits of the unpaid magistracy, our old country citics would present a hideous spectacle of unbridled viceand hourly occurring disturbance. We belicve no force is so efficient as the London police, and none is so unobtru-
sive, or of so little trouble to the inhabitants generally; the ertension of the same system to other cities has been invarnably attended with the same beneficial results.

Let us giance for an instant at the position of a large city community where the police force is wholly madequate to the wants, or rither the vices, of a mixed society.

In the Havannah, for cxample, the most frightful license was aliowed to all kands of crime and laxity of princip!e. Assassmations were of nightly and hourly oscurrence. The arrival of Governor Tacon was an era never to be forgotten in its annals. This celebrated man at once determined to check the anbridled insolence of the infringers of the law, ana established a rigorous and active system of police, and in a short time, and after a few startling examples of necessary severity, order and peace were thoroughly restored, and Havannah, from being a Pandemonium, became as guet and orderly as an English city.

But it is useless to attempt to multuply instances of the vast changes effected in thickly peopled communities by the introduction of an active, well-paid police establishment, for the fact is too notorious to need argument or illustration.

Let us now turn to Canada, and ask whether some modification of the present system is not peremptorily required. We understand that Lord Sydenham has introduceú into Montreal and Quchec Stipendiary Magistrates and a police force. But as yet such functionaries are unknown either in the Upper Canadian towns, or the country generally. We know that the expense necessary for the establishment anc maintenance oi such a force, is cousidered a strong objection to its creation. We may aiso be told that the circumstances of the country do not require it, and that the public peace is sufficiently preserved, and public justice sufficiently vindicated as things now are.

We will take the last objection first. In the event of any breach of the peace uccurring, or being apprehended throughout the country, or even in one of our towns, the inadequacy of the magistracy, either for the prevention of anticipated violence, or the apprehension of thuse guilty of its committal, becomes at once apparent. Suppose a murder to be committed in a distant township, and the fact proved by the
oath of credible witnesses; huw is the magistrate's warrant fur the apprehension of the guilty party to be enfurced?-to whum is that functiunary to hand it for exccution? Will the neighbours, scized with a eudden zeal for the vindicati, nof the lass, arm themselves in haste, and troop off to scour the forests, swamps, and shanties, to seize and bring to the distrint gaol, perhaps some fifty miles off, some criminal rendered desperate by the consciousness of guilt, and determined to sell his freedom as dearly as possible? We doubt much if the love of justice wili prompt many of our fellow-subjects to such exertions for the detection and punishment of crime. Suppose a disturbance to take place in a town, and riotous proceedings endangering or affecting life and property; where is the well appointed police force ready at the summons of an active and thoroughly responsible magistracy, to put down tumult, and drag of the ringlead. crs to imprisonment and punishment? Well may echo answer-where?

We may be said to be supposing extreme or inprobable cases. Are our readers aware that a cold-blooded and unprovoked murder wes committed a few weeks since at the Durham Election, under the very eyes of the Returning Officer in the open day, and in sight of hundreds? Where is the perpetrator of that savage act? In the gaol of the Newcastle District, awaiting the punishment of his transgression? No. He is well known,-he is a resident of Cavan, a populous tow nship, where magistrates ahound, and yet he is abroad in the country, and to the best of our belief no attempt has yet been made to seize him. Could such things be in any country where there existed a Stipendiary Magisirate, u hose duty it was to take care that the infringer of the law should if possible be apprehended, and who would be responsible to Guicrnment for a breach or neglect of duty?

Let us now look at the towns. The City of Torontc has recently been disgraced by the occurrence of a not in which humen life has been lust, and an unmeasured quantity of ill-feeling engendered a the minds of the community.We have not now either the wish or the intentiun of attacking individual character, or assailing political opponents. No one can more deeply regret the occurrence of such melancholy scenes than we do, and we speak of these unhappy detauls with far more of sorrow than of
anger. It matters but little to our argument Which pulitical party was to blaur, ur who commenced the assault: suffice it to oag, that notous procecdings did take place, anil human blood was shed. We here state our solemn and deliberate conviction, that had the police establishment of this city been on a different fouting, thuse unfortunate pruccedings wuild never have taken place. It required but little divination to foresce that on such an occasion, after a bitterly contested clection, disturbance might take place. A procession was expected to pass down the principal street, and long before ite appearance a body of men was ohscrund collecting at a central point, many of them armed with stache: and decorated with adverse party colors, evidenti; awaiting its arrial with no friendly intentions. What would have been done under such circumstances had we possessed two or three regulatls paid inil responsible public magistrates, always at their poit, and whose duty required them to exercise the fullest possible diligence on the slightest. apprehension of disorder? Measures would instantly have been taken to ensure a frec passage in the intended procession. Constables would have been stationed at proper places, and the peaceable and right-minded portion of the citizens would have been called on to aid the arm of the law in preventing the possibility of collision between the adverso parties. Nothing, we advisedly assert, would have bicon easier, than by active and judicious interference and remonstrance to have prevented the attack commenced on the procession in King Strect, which was the origin of tie subseq nt riot and bloodsacd. it is neeuless to allege that all thuse instrumental in the loss of life are either in custody or on ball,-that ju.tice will be effectually vindicated, \&c. We conteaci that under a proper police establishment the riot never would have happened, and that it is snall consolation to the cuminunity that the guilty parties will certainly be made tu anower fur this misdeeds, when we hnow that wah ciffirant management, occurrences of a nature so truly lamentable and degrading to the character of Toronto, would have been completely averted. Hrw then is an evil of such magnitude to bo remedied? We conceive the first siep must be a repeal or modification of the act of incorporation. In a city like Toronto, with a population of 18,000 souls, of all countries, politics,
and relig:ons, we would humbly suggest there ougit to be thrce, or at least two police magistrates appuinted by the Government, removable at pleasure, and fairly remunerated, at salaries say of three hundred pounds a year each. A Recorder should also be appointed to preside at the City Crimanal Court, being of course a lan yer. To save expence, an intelligent Barrister could easily fill both the offices of Recorder and District Court Judge, receiving a moderate salary in lieu of all fees or perquisites. These functionaries would devote their whole time if necessary to police matters-ther should be tolerably well skilled in legal points, and capable of deciding in all the matters brought under their notice. They would transact all the police business of the city,-command the force of constables which it would be found necessary to maintain, -and be ever on the spot to :eceive information of apprehonded riot, and to detect and bring to justice all breakers of the peace. Toronto should still have its Aldermen $n$ nd Common Councilmen to meet in Council, and decide on all financial and general business. But immediately on being relicved from attendance and imperfect performance of all the petty police matters, the most worthy and influential inhabitants of the City would be found willing to accept seats in the Corporation, At present few persons can be found, possessing the requisite qualifications for such dutiec: willing to encounter the fatigue and unpleasant urouble of sitting two or three hours a day to hear netty cases of asseult and battery, tavern rows, midnight robberies, stolen watches, and picked pociots. The man of business can with difficulty spare the time,and even those who have sufficient leioure to desote to the duties of the magistrasy would shrink back from the unpleasing task of presiding on the police bench.

Appoint Stipendiary Magistrates for these duties, and the Aldermen of the city can be selected isum its first inhabitants, who although unwillirg to encounter the dally drudgery of the Supendtartes, will be ready to lend their aid and attention to the arrangement of the general affalis of the city.

There is one other light in which the magistracy may ion regarded, viz. as public accountants -which they became by being directed by statute and otherwise to enforce, receive, and pay over to the Recoiver General, of to certain
local functionarica fines of differert kinds. It has been alleged, and not we believe without some foundation, that grest irregularities had naturally crept into a system so thoroughly defective; but on this head we would beg to conclude these imperfect remarks by a shurt extract from one of the reports of the Cummssions of Inquiry appointed by Sir Geo. Arthur.
"Maalstrates Returns.-It is much to be feared that great irregularity has prevailed in the levying and paying over to the public use of this part of the revenuc. In an extensive and thinly settled country, it is most difficult to ensure the constant superintendance of un active correcting power over the ill-kept accounts of such an unorganized body ns the Provincial Magistracy, whom the enactments of statutes have converted into public account ants. They are directed to pay over monies collected to the Receiver General, but is is needless to remark on the latitude allowed to the will and pleasure of the parties themselves by the apparent absence of any inspecting and coercive power, by the intervention of which laxity might be prevented, and default, if existing, be discovered and punished.
"The committee is induced strongly to prefer
the adoption of some system by which the Justice of the Peace would cease altogether to be 0 Public Accountant, as it is needless in the precent social position of the Province to expect unerring regularity and exactness in has accounts while his sitution is for at least ought tu be) merely honurary, and noi designed as a source of positise emolument.
"With respert to fines, penalties, \&c. now collected by the Justices, a new systen might be adopted, by which either the District Inspector, or some other regularly pald officer, from whum securty 1 , required, might become the sole Receiver of monies arising from sentences of Magistrates. Thus, on a fine or penalty being imposed by a Justice or Justices, he of they might notify the Inspector, or Stipendary Magistrate if ench an officer were created) for that section of the country, of the par.iculars of the fine so moposed,-and that functionary under the direction of the magistrate miglit then be empowered to proceed to levy the same. and thus become the Receiver and responsible Accountant for all the money collected under the warrants of Justices of the Peace, ir place of there heing a number of accountants difficult to be checked or controlled scattered over the country."

## ROADS.

We have already published sevesal usef:l papers on the impruvement of the roads, and the importance of the subject induces us to continue it. In this new country there is nothing that isso intimately connected with its prosperisy as the improvement of roads, and the correct principles of road-making should be diffused as widely as possible, as most of the ruads are necessarily managed by men who know but little of the mater. The principles here lud down are applicable to all roads, more or less, whether they aze macadamized or not; and if our path-masters and road-overseers would but act on these plans, so far as they apply, the common roads would soon be greatly improved.
addressed to a Committee of the Assembly on Turnpike Trusts, and thes convey very useful information on the subject. The first paper is by Mr. Thos. Roy, Cival Engineer:-
on the constauction of roads.
Laying out a Road.
Roads ought to be carried along a level line as nearly as possible, and only having gentle acclivities and declivi:ies; for a greater distance on a road nearly level, is productive of less expense of animal strength than a lesser distance passing over considerable elevations.
The following tables, the general results of experiments, and drawn from approved formula, will render this manifest:-

## TABISEI.

## Force of Traction required on various inclinations of Road—load 25 cwt, velocity two and a half miles per hour.

Rate of Inclination. Force required.
Level. ..... 115 lbs.
1 in 600 ..... 120 "
1 in 57 ..... 140 "
1 in 40 ..... 164 "
1 in 29. ..... 200 "
1 in 20 ..... 218 "
1 in 10 ..... 300"
1 in 142 ..... 400"
1 in $11 \frac{1}{2}$ ..... 500 "
1 in 8 ..... 700 "
1 in 7 z ultimum of Traction ..... 800 "
TABI،EII.
A Horse can exert the following moving forces at diferent velocities for six hours per day.

| Miles per hour. | Strong Horsc. | Ordinary Ifarse. |
| :---: | :---: | :---: |
|  | 169 | .... 100 lbg . |
| 23 | 156 " | . . 90 |
|  | .141 " | *...... 81 " |
| 31 | . 132 " | " |
|  | ...191 " | " |
|  | ...100" | ..... 49 " |
|  | . 81 " | ..... 98 " |
|  | ... 6.4 | .... $25{ }^{\prime \prime}$ |
|  | . 49 " | ... 16 " |
|  | . $36 \times$ |  |

By the Woburn experiments the mean foree exerted by 144 horses in 52 teams, was 168 lbs each horse-melination and veluesty not given, force exerted by a strong horse, at a dead pull, 480 lbs.

From the above tables it is manifest, that a moderately strong horse can draw s's cwt. on a nearly level road, but upon incluations exieeding 1 in 40, such a load is beyond his strength for any considerable distance. However, if the inclination is short, he will be able by considerable exertion to draw this load on an inclination of 1 in se-but upon an inclination of in 142, it is beyond the strength of an ordin. ary horse at a dead pull. These deductions assume the road to be firm and wrought into true inclunatons; where the rowls are loose and ill-formed, the required force of traction is greatly increased.

## Proper form of a Road.

After a proper location for the road has been established, the ground should be carefully lerelled and levelling stakes placed at every hundred feet distance. Sections of it should be made, and the whole laid out into true levels or inclinations as the case may be. This will
not only facilitate the future operations, but will also tend to lessen the expense; for it will prevent all improper excavations or em. bankments from being done. The metal bed is then to be formed, and the soil to be carefully drained, which is an operation of great consequence and requires much skill to execute it properly. The metal bed should be levelled transversely, and made as firm as possible. The metal should be so laid as to render it impervious to water. This can only be effected by lasing it on in thin layers and giving each layer ime to be settled by the action of the wheels before the next in succession is laid on. The first layer should be about five inches thick, quite lerct, and be well pressed down upon the metal bed, and consolidnted before the next layer is put on, so os to form a species of concrete bottoming for the road. Should the road be narrow and the traffic light, another layer of five inches average thickness will form a good road; but if the road is wide and the traffic heavy, it wili require two more layers of four inches each, which form a road strong enough for any situation. The form of the surface of the road when finished, ought to be the segment of a circle, radius eight hundred feet. If the width of the metal or the chord be 16 feet,
the versine or tise should be $2 \mathcal{L}$ inches nearly. Thus, if an average of 10 inches of metal is to be given, the thickness at the edges should be昭 inches, and at the middle at should be $11 \pm$ inches. This curve is quite sufficient to dram off the water, and it is strictly in accordance with the required strength of the road at the centre and at the sides,--for by observation it is found that on a road much used by wagons, the waste is in the following proportions:
Action of the atmosphere....20 per cent.
Carriage wheets..........35 ",
Horses' feet............45 "
Therefore, if the atmospheric action is equal over the breadth of the road, and the action of the horses' feet being most frequently on or near the centre, it follows that the centreought to be stronger than the edges, in the proportion of 7 to 9 . Hollow arching of the materials ought to be carefully guarded aganst; for a percolation of water from the surfice will take place wherever it exists. This hollow archung cannot be avoided when the full thickness of the metal is put on at once; therefore it ought never to be done. Covering the surface of the road with loose materials such as gravel or sand, has a still more pernicious effect. It torever prevents the angles of the stones from combining, and a road so used must ever reman hollow underneath.
It has been found on roads where great traffic exists, that if they are made of clean hard broken stones placed on a firm foundation, and rendered impervious to water, and sulficiently strong not to yield under the pressure of the wheels, the wear is about one inch in thickness per annum-but on weak 11 -draned roads, pervious to water, und yielding under the pressure of the wheels, the wear of materials has been as much as 4 inches per annum.

The size of the broken stone ought to bear a proportion to the hardness of the material used.
One and a half inch Cubes of Aberdeen Granite are compressed by a weight of $\cdot 25,536 \mathrm{lls}$. PeterheadGranite. .............18,656 "
Cornish Granite.................14,302 "
Purbeck Limestone................20,610 "
Compact Sandstone.............15,560 "
It follows if $1 \frac{1}{2}$ inch Cubes of Aberdeen Granite is a proper size, $2 \frac{2}{2}$ inch Cubes of compact Sandstone (the material chiefly used in this country) would be equivalent to resist the same pressure. $2 \frac{1}{2}$ inches is too large, but certainly upon every sound principle, the softer stone ought not to be broken so small as the harder.
Having briefly traced the outlines of the formation and construction of a well-made road, we shall endeavour to examine how far the roads lately male in the Home District are cunformable to sound principles of road-making,
and in so doing shall take each road in succession.
Yonge Strect road was the first experiment. It is not necessary here to enquire into the justice or injustice of the much-agytated question about the expense of that small portion of road made during the first season. It is enough to say that expense was not spared. The rond was formed of a greater breadth than has been done since; the metal was laid on thicker, and an expensire, but injudicious system of drainage was adopted. Unfortunately, those adaptations which scrence has supplied to the art of road-making, were totally disregarded, and a low standard of action was placed before the public. In future seasons this has not been remedied, it is even worse. The road has been carried forward in a nearly straight line, regardless of the expense of anmal strength which the Commissioners were entailing upon the public, and heedless of the certainty that in a few years, if the Province prospered, the steep inclmations which they were forming, would be altered at an expense probobly as great as the first cost. The proceedings at Gallows' Hill, and at Horg's Hollow, will fully justify these remarks. Is shall confine msself to the latter of these. An excellent line of road, with an inclination of about 1 in 30 on each side of the ravine, could have been obtained at a moderate expensc. Instead of adopting this line, the road was carried right across the ravine; the inclinationsure not regular; at the steepest parts they areallmost 1 in 14. The princuple of action uppears to have lieen to reverse the geometrical truth,-lessen the inclination by increasing the distance; for the distance was lessened in order to increase the melination. The consequance is, that if Yonge Street road had been properly laid out, a regular deseent could, with three or four exceptions, have been obtained from the oak ridges to Toronto, and one horse could have drawn in a ton weight of produce to the city; but Hogg's Hollow, and one or two other mismanaged places intervene, and it 15 absolutely necessary to employ two horses to bring in a ton of produce, instead of one horse,--a tax upon every individual who lives to the northward of the hollow, far heavier than both the tolls upon the road, besides having toll to pay for two horses insicad of one, into the bargain.
The metal bed is badly formed-the inclinations irregular, resembling the section No. \& -the metal laid on in masses, and inperfectly consolidated-drainage scems to have been neglectu, or not understood-and the road is breaking up.
Some further remarks are then made on the West and East Toronto Roads, showing the errors committed in their construction.
This paper is followed by one suating that roads must be made perfectly dre in the first
instance, just as a wise man would prapare a solid foundation for his house; and that due regard must be had to the ection and reaction of springe, as well as of surface water. Another paper is then given by Mr. Charles Green, of Cobourg, stating the process pursued in England in making a road over swampy ground, as follows:-
I do not profoss to be scientific in the process of macadnmization, but, with your permission, I will sute what I have sen done in England en one of the principal thoroughfares into London,-the entrance from the South and East.
This piece of road over a space of fise miles, was, within my recollection, one of the worst of the great thoroughtiures, and I hare witnessed muny scrious accidents therefrom.The ground low and swampy the whole distance, recinimed by embankments and ditches.
The process that I saw adupted, was the semoval of the upper statum to the depth of eighteen inches or two fee., then luying down bavins or faggots packed lose, endwise across the road, to the depth of two feet more or less, to preserve the level as near as posslble, but at all events to avoid holes or undulations of ground that would favour a lodgwent of water,-ithe superstratum betore removed, was thrown over the bavins, and found its way in the interstices of the baving. It is fit to ubserve that this soll was of a sundy description, and from tis non-adhesive quality, thore readly deposited itself,-over this agann was thrown common gravel, six to elght inches thick, which formed the road for use. The traffic soun solidfied the whole, -wherever any part of the earth-covering sunk, the injury was repaired in dry weather with gravel. The convextiy of the road was slight, the ditches were earefully kept in repar, to receive the water, and the road from being one of the worst, became one of the best around London.
It was after the formation of this road that Mr. McAdam commenced his system in Eingland; the value of which appears to conshit in
creating ample drans for wator, tho removal of trees from the road sides, where they would interrupt the action of the sun and wind; and the upper layer of his road to consist of stones broken to about two inches square, thus pfeserving angular pleces instead of round; the former having the greater tendency to hang together and solidiff, than round substances.
The principal object to which I tuke the liberty of directing sour attention, is the foundation, whech, in the formation of the rond above referred to, consisted of Bavins and Faggota. The opportunities afforded in this Province for so conducung the work of road-making, hold out a prospect of effecting this obje to the greatest aulvantage, and with the beit probablo sesults, and I am persuaded from what I have witnes ed on the roud abure referred to, where the truffic is su mimenee, that the plan would succeed well here.
I have often seen in thus Province an attempt to repar roads, by casting luoze brush on the road, and coverng loosely with earth, a practise to be altogether condemned as useless. 1 presume I need hurdly state that Bavins conzist of sound twigs and brushwood, the thickness of a finger, bound up close nad compact with wihy, und a strong stake driven throngh the middle to keep thein firm. I humbly conceive that Bavins are much superior to trunks of trees, because they will in.erlace and support each other, wheh the trees cannot do. Arguing from analogy, Mr. McAdam broke Lirge stones into small preces, in order that he might obtain a material that would unite, or more properly speaking, bind. I am not prepared to state vhat would be the expense of preparing the Bavins, but there must be many persons here who pursued the occupation of wood-cutting in England, and could give an accurate estimaie of the cost.
I will close my remarks by stating that the Dover Road, to which I have made such particular reference, is considered one of the best around Londnn. Its foun lation has not been disturbed since its formation, at the division I have described, nor has it perceptibly given way.

# THEENGLISHLANGUAGE. 

Frasecr and English literature, which huve now: Ecen in a high state of activity for two entiro centuries, and perhaps as nearly as possible havo been subject to the same allowance for lulls arising cut of civl agitations, cannot reasonably be supposed to have left any nook or sly meess in the broad field of national interest at mis day unvisited. Long after the main highway of waters has felt the full power of the tide, channels running far inland, with thousands of little collateral creeks, may be still under tho very process of filling; for two powers are required to those final effects of the tide;the general hydrostatic powe for maintaining the equilibrium, and alsn bydraulic fower for searching narrow conduits. On the same analogy, many human interests, less obvious or less general, may long linger unnoticed, and survive for a time the widest expansion of intellectual activity. Possibly the aspects of society must shift materially hefore oven the human consciousness, far less a livman interest of curiosity, settles upon them with stcadiness enough to light up and vivify their relations. For example-odd as it may seem tc us, it is certain that, in the Elizabethan age, Political Economy was nct yet viewed by any mind-no, not by Lord Dicon's-as even a possible mode of speculatic. n . The whole accidents of value andits functions, were not as yet separated into a distinct conscious object; nor, if they had been. would it have been supposed possible to trace luws and fixed relations amongs: forms apparent! ! so impalpable, and combinations so fleeting. With the growth of society, gradually the same phenomene revolved more and more frequently; something like order and connection was dimly lescried; philosophic suspicion began to stir; observation was steadily applied; reasoning and disputation ran their circle; and at last a science was matured-definte as mechanies, though (like that) narrow in its clementary laws.

Thus it is with all topics of general interest. Through several generations they may escape notice; for there must be an interest of social necessity visibly connected with them before $\pi$ mere vagrant curiosity will attract culture to their lavs. And this interest may fail to arise until society has been made to move through various changes, and human needs have assumed attitudes too commanding and too permanent to be neglected. The laws of the dramathat is, of the dramatic fable-how subtle are they! How imperceptible-how absolutely non-existences-in any rude state of society! But let a national theatre arise-let the mighty artist come forvard to shake men's hearts with
scenic agitations,-how inovitably aro those laws brightened to the apprehension, searched, prohed, analyzed. Sint 3 frecenates, it has beon sald, non decrunt (Flucec) Marones. That may be doubted; and ..earer to the probabilities it would be to invel the order of succession.But however this may be, it is certain from manifold experience, that invariably there will follow on the very traces and fresh footing of the mighty agent-(mighty, but possibly blind) -the sagacious theorist of his functions-in the very wake and visible path of tho awful Eschylus, or the tear-compelling Euripides, producing their colossal effects in alliance with dark forces slumbering in human nature, will step forth the torch-bearing Aristotle, that paro starry intelligence, bent upon searching inco those effects, and measuring (when possible) those forces. The same arro accordingly boheld the first pompous exhibitions of dimatic power, which betcle also the great speculator arise to trace its limits, proportions, and the parts of its shadowy empirc. "I came, I saw, I conquered"-such might have beenAristotle's vaunt in revicwing his own analysis of the A thenian drama-one generation, or nearly so, having witnessed the creation of the Grecian theatre as a fact, and the finest contemplative suryey which has yet been taken of the same. fact viewed as a problem; of the dramatic laws, functions, powces, and limits.
No great number of generations, therefore, is requisite for the cxhaustion of all capital interests in their capial aspects. And it may be presumed, with tolerable certainty, that by this time the plough has turned up every angle of soil, properly national, alike in England or in France. Not that many parts will not need to be tiluid over again, and often absolutely de novo. Much of what has been done hus been done so ill that it is as if it had not been doneat all. For instance-the history of neither kingdom has yet been written in a way to last or in a way worthy of the subject. Either it has been slightly written as to research-witness Hume and Mezeria, Smollett and Pere Daniel -(not but some of these writers lay claim to antiquarian merits)-or written inartificially or fecbly as regards effect-nr written without knowledge as regards th. p political forces which moved underground at the great cras of our national development.

Still, after one fashion or another, almost every grat theme has receiped its treatment in both English literature and French; though many are those on which, in the words of the German adage upon psychology, we may truly affirm that "the first sensible word is yet to be
spoken." The soil is not absolutely a virgin soil; the mine is not absolutely unworked; although the main body of the prectous ore is yct to be extracted.

Meantime, one capital subject there is, and a domestic subject besides, on which, strange to say, neither nation has thought fit to rabe any monument of learning and patriotism. Rich, at several eras, in all kinds of learning, neither England nor France has any ${ }_{6}$ reat work to shew upon her own vernacular language. Res est in integro; no Hickes in Lingland, no Malesherbes or Menago in Frınce, has chosen to connect his own glory with the investigation and history of his native tongue. And yet each linguage has brilliant merits of a very different order; and we speak thoughtfully when we say that, confining ourselves to our own, the most learned work which the circumstances of any known or obvious case ullow, the work which presupposes the amplest accomphishments of judgment and enormous erodi ion, would be a history of the English Language from its carliest rudiments, through all the periods of itagrowth to its stationary condtion. Great rivers, as they advance andreceive rast tributary inlluxes, change their direction, ther character, their very name; and the pompous inland sea, bearing navies on its bosom, has had lemsure through a thousand leagues of meandering utterly to forget and disown the rocky mountain bed and the violent rapids which made its infant state unfitted to bear even the light canoc. The analogr is striking between this case and that of the English language. In its clementary period it takes a different name-that of the Anglo-Saxon; and so rude was it and barren at one stage of this rudimental form, that in the Saxon Chronicle we find not mere than a few hundred words-perhaps from six to eight hundred words-perpetually revolving, and most of which express some idean close relation to the state of war. The narrow purposes of the Chronicler may, in part, it is true, have determined the narrow choice of words; but it is certain, on the other hand, that the scanty vocahulary which then existed,mainly determined the limited range of his purposes. It is remarkable, also, that the idomatic forms and phrases are as scanty in this ancient Chronicle, as the ideas, the images, and the logical forms of connection or transition. Such is the shallow brook or rivulet of our language in its infant stage. Thence it devolves a stream continually enlarging, down to the Norman era; through five centuries (commencing with the century of Bede) used as the vernacular atom for tie intercourse of life by a nation expanding grudually under the rypening influence of a pure religion and a wise jurisprudence; benefiing besides, by the culture it recerved from a large succession of learned ecclesiastics, who too often adopted the Latin for the vehicle of their literary commerce with the Continent, but also
in cases past all numbering wrote (like the great patriot Alfred) Ri: popular purposes in Saxon -even this rude dialect grew and widened its foundations, untul it became adequate to general intellectual purposes. Still, even in this improved state it would have been found incommemsurate to its great desting. It could not have been an organ corresponding to the grandeur of those intellects which, in the fullness of time, were to communicate with mankind in oracles of truth or of power. It could not have efioded moulds ample enough for receiving that vast hiterature which, in less than another five hundred years, was beginning to well forth from the national genius.

Hence, at the ver first entrance upon this interesting theme, we stamble upon what we may now understand to have been the blindest of human follies-the peculiar, and without exaggera ion, we may say, the providential felicity of ihe English language has been made its capltal reproach-that whilst yet ductile and capable of new mapressions, it recenved a fresh and large infusion of alien wealth. It is, say the inbecile, a "bastard" language-a" hybrid" language-and so torth. And thus, foi a metaphor, for a name, for a sound, they overlook, as far as depends on their will-they sign away -the man prerogative and dowry of their mother tongue. It is time to have done with these folhes. Let us open our cyes to our own advantages. Let us recogsize with thankfulness that fortunate inheritance of collateral wealth, which by inoculating our Anglo-Saxon stem with the mised dalect of Neustria, laid open ars avenue mediately through which the whole opulence of Roman, and ultimately of Grecian thought, plays frecly through the pulses of our native English. Most fortunately tie Saxon language was yet plastic and unfrozen at the era of the Norman invasion. The language was thrown again into the crucible, and new elements were intermingled whit its own when brought into a state of fusion. And this final process it was, making the language at once rich in matter and malleable in form, which created that composite and moltrform speechfitted, like a mirror, to reflect the thoughts of the mysiad-munded Shakspeare, and yet at the eanc time with enough remaning of its old forest stamina for imparting a masculine depth to the sublimities of Milton, or the Hebrew pro~ phetis, and a patriarchal simplicity to the Historic Scriptures.

Such being the salue, such the slow developement of our noble language, through a period of more than twice six hundred years, how strange it must te thourht, that not only we possess at this day no history, no circumstantial annals, of its growth and condition at different era:-a defect which even the German literature of our language has partually supplied; but that, with one solitary exception, no eminent scholar has applied himself even to a sin-
gle function of this elaborate service. The solitary exception, we need scarcely sar, points to Dr. Johnson, whose merts and whose demeitts, whose qualifications and disqualifications, for a task of this nature, are now too notorions to require any illustration from us. The slenderness of Dr. Johnson's phlological attainments, and his blank ignorance of that particular philologs which the case particularly required-the phalology of the Northem lan-guages-are as much matters of record, and as undeniable as, in the opposite scale, are his logical skill, his curious felicity of distinction, end his masculine vigor of definition. W orking under, or over, a commission of men more learned than himself, he would have been the ablest of agents for digesting and organizing their materials. To inform. or invest with form, in the sense of logicians-in other words, to impress the sense and trace the presence of principles-that was Dr. Johnson's peculiar province; but to assign the matter, whether that consisted in orignating the elements of thought, or in gathering the affinties of languages, was sutcd netther to his nature nor to his habits of study. And of necessitr, therefore, his famous Dictionary is a monument of powers unequally yoked together in one task-skill in one function of his dutr," full ten tumes as much as there needs"- 3 kim in others, sometimes feeble, sometimes none at all.

Of inferior attempts to ollustrate the language we have Ben. Johnson's Grammar, early in the seventeeth century; Wallis, the mathematician's Grammar, (witten in Latin, and patrotically designed as a polemic Grammar against the errors of foreigners) towards the end of the same century; Bishop Lowth's hitle Scheol Grammar, in the eighteenth century; Archdeacon Nare's Orthoepy; Dr. Crombie's Etymology and Syntar; Noah Webster's various Essays on the same subject, followed by his elaborate Dictionary, all written and first pubjished in America. We have ulso, and we mention it on accuunt of its great butunmerited popularity, the Grammar of Lindley Murray,an American, by the way, as well as the eccentric Noah. This book, full of atrocious blunders, (some of which, but with litlle systematic learning, were exposed in a work of the late Mr. Hazlitt's) reigns despotically through the ladies' schools, from the Orkney's to the Cornish Scillys. And of the other critical Grammars, such as the huge guarto of Green, the smaller one of Dr. Prestly, many little abstracts prefixed to portable Dictonaries, \&ic., there may be gathered, bince the year 1680 , from 250 to 300 ; not one of which is absolutely without value-some ransing new and curious questions, others showing their talents in solving old ones. Add to these the occasional notices of grammatical mecities in the critical editions of our old poets, and there we
have the total amount of what has hitherto been contributed towards the investigation of our Enghsh Language in its grammatical theory. As to the investigation of its history, of its gradual rise and progress, and its relations to neighbouring languages, that is a total blanka tule pointing to a duty absolutely in arrear, rather than to any performance ever undertaken as jet, even by way of tentative essay. At least, any fractional attempt in that direction is such as would barely form a single section, or sub-section, in a general history. For instance, we have critical essays of some value on the successive translations, into English, of the Bible. But these rather express, in modula paicu, the burden of laborious research which awaits such a task, pursued comprehensively, than merely diminish it. Even the history of Slang: whe:her of domestic or forcign growth, and the record of the caprictous influxes, at particular epochs, from the Spanish, theFrench, \&ic., would furnish materials for a separato work. But we forbear to enter upon the long hi:t of parts, chapters, and sectons, which must compose the archutectural system of so claboraic a work, seoing that the whole edifice itelf is hitherto a great idea, in mubibus, as regards our own language. The French, as we have observed, have little more to boast of. And, in fact, the Germans and the Italians, of all nations the two who most cordially hate and despise each other, in thes point agree,-that thes only have constructed many preparatory work-have reared something more than mere scaffolding towards such a systematic and national monument.
I. It is painful and humiliating to an Englishman, that, whle all other nations show their patriotism severally in connection with their own separate mother tongues, claiming for them often merits which they have not, and overlonking none of those which they have, his own conntrymen shew themselres ever ready, with a dishonourable levitr, to undervalue the English language, and always upon no fixed principles. Nothing to ourselres seems so remarkable, as that men should dogmatize upon the pretensons of this and that language in particular, without having any general notions previously of what it is that constitutes the value of a language universally. Without some preliminary notice, abstractedly, of the precise qualities to be sought for in a language, how are we to know how the main object of our question is found, or not found, in "any given language offered for examination? The Costilhan is pronounced fine, the Italian effeminate, the English liarsh, by many a man who has no shadow of a reason for his opinions beyond some rague association of chivalresque qualities with the personal bearing of Spaniards; or, again, of special adaptation to operatic music in the Itahan; or, as regards the English, because he
has heard, perhaps, that the letter $s$. and crowded clusters of consonants and monosyllabic words prevail in it.

Such random and fantastic notions would be entitled to little attention; but, unfortunatels, we find that men of distinguished genius-men who have contributed to sustan and extend the glory of this very Enghish language, are sometimes among its notorious depreciators. Addison, in a well-known passage of his critucal essays, calls the English, in competition with the Greek language, brick against marble. Now, that there is a vical beauty in the Greck, which raises it in that partucular point above all modern languages, and not exclusively above the English, cannot be denied; but this is the lowest merit of a language-being merely its seneuous merit (to borrow a word of Mllton's;) and, beyond all doubt, as respects the higher or intellectual qualities of a language, the English greatly excels the Grech, and especially in that very case which provohed the remark of Addison; for it happens, that some leading ideas in the "Paradise Lost"-ideas essential to the very integrity of the fable, cannot be expressed in Greek; or not so expressed as to convey the same thought impregnated with the same weight of passion. But let not our reverence for the exquisite humor of Addison, and his admirable delicacy of pencil in delincating the traits of character, hide from us the fact that he was a very thoughtless and urreflective critic; that his criticisms, when just, rested not upon principles, but upon mere fineness of tact; that he was an absolute ignoramus as regarded the literature of his own country; and that he was a mere bigot as regarded the antique literature of Pagan Greece or Rome. In fact, the eternal and ineritable schism between the Romanticists and the Classicists, though not in name, had already commenced in substance; and where Milton was not free from grievous error and consequent injustice, both to the writers of his country and to the language, how could it be expected that the far feebler mind of Addison should work itself clear of a bigotry and narrowness of sympathy as regords the antique, Which the discipline and traiming of his whole life had established? Eren the merit of Addison is not sufficient to waive his liability to one plain retort from an offended Englishman, viz: that, before he signed away with such flagrant levity the pretensions of his natire language, at all events, it was incumbent upon him to shew that he had fathomed the powers of that language, hide exhausted its capacity, and had wielded it with commanding efficet. Whercas, we all know that Addison was a master of the humble and unpretending English demanded, or even suffered by his themes; but for that very reason little familiar with its higher or amparsioned movements.
II. But Addison, like most other crities on languages, orerlcoked one great irath, which
should have made such sweoping undervaluations impossible as applied to any language:this truth is, that every language, every language at least in $n$ state of culture and developement, has its own separate and incommunicable qualities of superiority. The French itself which, in some weighty respects, is among the poorest of languages, has yet its own peculiar merits, not attainable or approachable by any other. For the whole purposes of what the French understand by the word causer, for all the delicacies of social intercourse, and the nuances of manners, no language but the French possesses the requisite rocabulary. The word causer itself is an illustration. Marivaux and other nocelists, tedons enough otherwise, are mere repertories of phrases untranslatable-irrepresentable by equivalents in any European language. And some of our own fashionable English novels, which have been fiercely arraigned for their French embroidery as well as for other supposed faults, are thus far justifia-ble-that, in a majority of instances, the English could not have furnished a corresponding plurase with equal point or piquancy-sometimes not at all.
III. If even the French has its function of superiority, so, and in a higher sense, have the English and wther languages more decidedly northern. But the English, in particular, has a special dowry of power in its double-headed origin. The Saxon part of the language fulfils one set of functions, the Latin another. Meantime, it is a great error on the part of Lord Brougham (and we reraember the same error in others) to direct the etudent in his choice of words toward the Saxon part of the language by preference. Nothing can be more unphilosophic, or built on more thorough misconception of the case. Neither part of the language is good or bad absolutely, but in its relation to the subject, and according to the treatment which the subject is meant to recelve. It is an erior even to say that the Saxon part is more advantageously used for cases of passion.Eren that requires further limitation. Simple narration, und a pathos resting upon artless crrcumstances,-elementary feelings,--homely and household affections-these are most suitably managed by the old indigenous Saxon vocabulary. But a passion which rises into grandeur, which is complex, elaborate, and interveined with high meditative feelings, would languish or absolutely hult, without ajd from the Latin moiety of our language. Mir. Coleridge remarks, that the writings of all reflective or highly subjective poets, overflow with Latin and Greek polssyllables, on what the uneducated term "dictionary words."
IV. Again, if there is no such thing in reruin natura as a language radically and universally without specific powers; if every language, in short, is and must be, according to the circumstances under which it is moulded, an organ,
sui generis, and fitted to sustain with effect some function or other of the human intellect, -so, on the other hand, the very advantages, of a language, those wheh are most vaunted, become detects under opposite relations. The power of running casily into composition, for instance, on which the (iermans show so murh fierte, when stating the pretensions of ther own mother tongue, is in itself injurious to the sumplicity and natural power of their poetry, besides being a sbare, in many cases, to the ordinary narrator or describer, and tempting him aside into efforts of display which mar the effect of his composition. In the carly stages of every literature, not umplicity (as it is thought) but elaboration and complexity, and tumid artifice in the structure of the diction, are the besetting vices of the poct; witness the Roman fragments of poctry anterior to Ennius. Now the fusile capacity of a language for running into ready coalitions of polysyllables aids this tendency, and alinost of itself creates such a tendency.
V. The proccss by which languages grow is worthy of decp attention. So profound is the error of some men on this subject, that they talk familiarly of language as of a thang dehbcrately and consciously mented by the people who use it. $\Lambda$ language neve" was invented by any people; that part wheh is not borrowed from adjacent nations arises under instincts of necessity and convenience. We wall allustrate the matter by mentioning three such modes of instinct in which has lan the parentage at least of three words out of four in every language. First, the instinct of abbresiation, prompted continually by hurry or by impatience. Sccond1 y , the instinct of ononalopaia, or more generally, the instinct of imitation applied durectly to sounds, indirectly to motion, and by the and of analogies more or less obvious apphed to many other classes of objects. Thirdly, the

[^0]instinct of distinction-somctimes for purposes of necessity, sometimes of convenience. This process clams by far the largest application of words in eiery linnguage. Thus, from pro. pricty (or the abstract idea of annexation between two thangs by nueans of fitness or adaptation) was struck outby a soore rapid pronunciation and a throwing back of the accent, the modern word property, in which the same gencral idea is limited to appropriations of pecumary value; whech, however, was long expressed by the original word propricty, under a modfied enunciation. So agan, major as a military designation, and mayor as a civil one, have split off trom the very bame or!gnal word by varied pronunciations. And these divergenctes into multiphed dervatives from some single radix, are, in fact, the great source of opulence to one langunge by preterence to another. And it is clear that the duference in this respect between nation and nation will be in a compound ratio of the complexity and variety of situations inte which men are thrown-(whence the necessity of a complex condition ot suciety to the growth of a truly fine language)-in the ratio, we say, of this complexity on the one hand; and on the other, of the intellectual activity put forth to scize and apprehend these flecting relations of things and persons. Whence, according to the vast inequalities of natiur.al minds, the vast disparity of languages.
VI. IIence we see the monstrosity of clainsing a fine or copivias language, for any rude or uncultivated, much more for any savage people, or cuen for a people of mountaineers, or for a nation subsisting chefly by hunting, or by agriculture or rural life cxclusively, or in any way sequestered and monotonous in their habits. It is phalosopheally impossible that the Gaclic, or the Hebrew, or the Welsh, or the Manx, or the Armoric, could, at any stage, have been languages ot compass or general poetic power. In relation to a few objects peculiar to their own climates, or habits, or superstitions, any of these languages may have been occaslonally gifted with a peculiar power of expresston; what language is not with regard to some class of objects? But a languare of power and compass cannot arise except among cities and the habits of luxurious people. "They talked," says John to Paul. speaking of two rustic characters, in one of his sketches-"they talked, as country people are apt to talk, concerningnothing.' And the fart is, universally, that rural occupatıons and habite, unless counteracted determinately by intellectual pursuits, tend violently to torpor. Social gatherings, social activity, social pleasure-these are the parents of language. And there is bat the one following exception to the rule-that such as is the activity of the national intellect in arresting fugitive relatoons, such will be the language rosulting; and this exception lies in the mecharical advantages offercd by some inflexions com-
pared with others for generating and educing the possible modifications of each primitive idea. Some modes of inflexions easily lend themselves, by their very mechanism, to the adjuncts expressing degrees, expressing the relations of time-past, present, and future; expressing the modes of will-desire, intention, \&c. For instance, the Italians have terminal forms, ino, ello, acchio, \&c., expressing all gradations of size above or below the ordinary standard. The Romans, again, had frequentative forms, inceptive forms, forms expressing futurition and desire, \&c. These short-hand expressions performed the office of natural symbols, hieroglyphics, which custom had made universally intelligible. Now, in some cases, this machinery is large, and therefore extensively auxilary to the popular intellect, in building up the towering pile of a language; in others it is meagre, and so far it is possible that, from want of concurrency in the mechanic aids, the language may, in some respects, not be strictly commensurate to the fineness of the national genius.
VII. Another question, which arises upon languages, respects their degrees of fitness for poetic and imaginative purposes. The mere question of fact is interesting; and the question as to the casual agency which has led to such a result is still more so. In this place we shall content ourselves with drawing the reader's attention to a general phenomenon which comes forward in all non-poetic languages, viz: that
the separation of the two great fields, prose and poetry, or of the mind, impassioned or unimpassioned, is never perfectly accomplished. This phenomenon is most striking in the Oriental languages, where the common edicts of government or provincial regulations of police assume a ridiculous masquerade dress of rhetorical or even of poetic animation. But amongst European languages, this capital defect is most noticeable in the French, which has no resources for elevating its diction when applied to cases and situations the most lofty and the most affecting. The single misfortune of having no neuter gender, by compelling the mind to distribute the coloring of life universally, and by sexualizing in all cases, neutralizes the effect as a special effect for any case. To this one capital deformity, which presents itself in every line, many others have concurred. And it might be shown convincingly, that the very power of the French language, as a language for social intercourse, is built on its impotence for purposes of passion, grandeur, and native simplicity. The English, on the other hand, besides its double fountain of words, which furnishes at once two separate keys of feeling, and the ready means of obtaining distinct movements for the same general passion, enjoys the great advantage above Southern languages of having a neuter gender, which, from the very first establishing a mode of shade, establishes, by a natural consequence, the means of creating light, and a more potent vitality...-Blackwood.

## HARBOURS ON LAKES ERIE AND ONTARIO.

Next in importance to the improvement of our public roads is that of our harbours. It is to little purpose that we make good roads upon which to convey our surplus produce and our imported goods, if we are destitute of safe and commodious harbours to which vessels can resort, to receive and discharge them.

There is not on the whole coast of Lake Erie--from the entrance of the Niagara river to the St. Clair--a harbour worth the name of one, or that will afford the required facilities to our commerce; or protection to any armed vessets which circumstances may render necessary for our defence.

It is true that money has been expended in comstructing harbours. Enough has been spent at two or three places, had it been well appro-
priated, at least to have enabled merchant vessels to ship the produce of the country, and land in safety the imported goods necessary for the consumption of the inhabitants of the neighbourhood.
But like other expenditures in Canada, many of these undertakings have either been Jobs, or they have been conducted by persons altogether ignorant of the commonest principles on which harbours, to be either useful or permanent, ought to have been constructed.
The harbour at Port Stanley is a striking example of the truth of the latter; the western pier, which is of a zig-zag form, is carried out nearly due South about 1000 feet into the Lake; the other, or the Eastern pier, is also of a zig-zag form, and extends in the same di-
rection abcut 84 feet. The current of the Lake is from West to East; and the prevailing winds are South West, and East, and South East, the former having a tendency to form land to the west ward of the harbour, which it has done to the extent of several acres-.-and the East and South East wind having a drect tendency to wash up and leave a deposit between the piers at the opening, which we understand it has done so as to leave but little more than three feet of water.
The structure too is of that ephemeral nature as to require to be renewed at least once in eight or ten yearg, the harbour having been first used about 1850, and it is now in a complete state of decay.

The consequence has been rum to those who built houses and stores on the shore adjacent, and a grear source of uncasiness to the enture London and part of the Western District. The want of good harbours on the British coast of Lake Erie, prevents a single steamboat, either British or American, from calling, although it is asserted that if proper harbours existed there would be several boats of each descripion, which would gledly and most profitably frequent them.
The same observations apply to Port Burwell, situate about 24 miles to the eastward of Port Stanley, except indeed, that the money there expended has been still more injudiciously laid out, and the harbour as such is wholly useless. Nor is it that both permanent and commodiotis harbours cannot be constructed on I Iake Erie. Nature has afforded excellent facilties, which require only the assistance of art to construct as good, approachable, and eafe harbours, as any on North America. Both those already named may be made sufficiently commodious for schooners such as at present navigate the Lake, or for steamboats not drawing more than 12 feet of water.
The mouth of the Catfish River, which is gituated between these two harbours, about 12 miles to the cast of the former, and about the same distance west of the latter, offers facilities probably superior to any other, whether as a harbour for a naval depot, or as a safe retreat for vessels of all descriptions in the heaviest gales of wind, or from the attack of an enemy.

The shore is bold, and affords excellent anchorage, being a blue clay bottom, affording 15
fcet of water at about 150 yards from the shore -and rapidly deepening oitidide of that.
The Catfish River, (or creek as it is improperly called) is deep and wide for a very constlerable distance inland, and with a li ${ }^{\prime \prime}$ ' dredging may be made navigabie for sevfral miles into the interior.
This stream does not, as many other rivers do, proceed through a marsh or swamp on its entrance into the Lake, but issues into it from between two high cliffs, about 100 feet in height,-which would render it perfectly safe from attack in case of war,-and is protected from the action of the easterly gales by the projecting foreland of Long Point.
The interior basin of the river forms a noble natural curve to the north west, and is capeble of recerving all the British .vessels which frequent Lake Erie, and is not only safe from storms or freshets from within, but would be completely out of the reach of attack from without.
The interior of the country through which the Catish River runs is a very fertile part of the London District, producing immense quantities of agricultural produce,-as well as of valuable tiniber, pine, white oak, chesnut,wallnut, \&c.,-all of which suffer greatly in their productive value from the want of greater facilities in getting to market.
The Catfish is about midway of the entire length of Lake Erie, and would be in all respects of inestimable value to the Province, both to its agriculture and to its commerce.
There are several other sites on Lake Eris where good harbours may, and probably ought to be made, and which would produce revenues sufficiently great to pay a large interest for the sums required to construct them, and without which that portion of the Propince can never realize the advantages of soll and of climate to which it is justly entitled.

As an evidence of the revenue which these harbours would produce, Port Stanler, with all its defects, has paid a good interest for the monc. expended on it, and it 15 believed that it will this year pay full $19 \frac{1}{2}$ per cent, nor is there the smallest reason for believing that increased facilities would not be accompanied with a corresponding increase of both exports and imports into the Western Districts of the Province, and greatly add to their wealth and prosperity.

- We point to these improvements with pleasure, because we know that by giving them publicity we are taking the first step towards carrying then into effect,-and we ontertain no doubt that a comprehensive and well ordered plan for the general improvement of our harbours will be orgunized by the Board of Works when that importunt body shall be legally constituted with full power to act.

The following memorial on Port Stanley Harbour has been addressed to His Excellency the Governor Gencral, and we copy it here in further illustration of our provious remarks. It expresses the views of the mercantile and trading interests of the whole London District:
To His Excellency the Right Honorable CHaRLes baron sydenham, of Sydenham in the County of Kent, and of Toronto in Canada, one of Her Majesty's Most Hunorabla Privy Council, Governor Goncral of British North America, and Captan General and Commander in Chief in and over the Provinces of Canada, Noxa Scotia, New Brunswick, and the Island of Prince Edward, and Vico Admisal of the same.
The Memorial of the underigned, Merchans, MilIers, Forwarders, and others of the London District,
Humbly shercth,
That your memorialists are deeply anxious to bring under your Excellency's consideration, the serious loss and inconvenience which the trade and business of this important District sustains through the want of a proper harbour at Port Stanley.
Your memonalists kelieve that your Excellency is aware that Port Stanley is justly considered the key to the London District, from its central position, and from the fact of its being situated on that part of Lake Eric nearest to the two most important plazes in the District, --the town of London, and the village of St. Thomas: the former claiming importance as the District Town and the military depot for the western country, and the latter as the chief market for the disposal of the wheat and flour, and other exportable products of this District.
Your memorialists humbly beg leave to submit to your Excellency the following bref statement of facts relating to the harbour at Port Stanley. The piers were completed in 1831, at an expense of $£ 6500$, and tolls were first collected in that year; since that period they have usually amounted to more than six per cent on the money expended for the construction of the work. For the year 1840 , the tolls collected at this harbour amounted to $\mathrm{L} 61 \mathrm{~S}_{\text {, or nearly }} 8$ per cent on the original outlay; and some of your memorialists know, to their bitter cxperience,
that merchandize was shipped to this port, but which, from the state of the harbour, was cast away or landed at other places on the Lake, and which would have increased the tolls to 10, in place of 8 per cent.
Your memorialists say nothing of the quantity of goods landed at Hamilton for merchants in this District, who preferred paying the heavy land carriage from thence, rather than incur the great risk of landing their goods at Port Stanley, with the harbour in its present disgraceful state.
The quantity of produce in the storehouses at Port Stanley, destined for shipment upon the opening of the navigation, is estimated at 60,000 bushels of wheat, 2000 burrels of flour, 1000 barrels of pork, and 200 barrels of ashes, high wines, \&c.,the toll upon which will amount to $\pm 600$. There are upwards of 1000 barrels of pork, besides a large quantity of wheat stored by nerchanis a few miles to the west of this harbour, in order to save the harboux coil; because, from the delapidated state of the piers, sand banks form at the mouth of the harbour, and vessels are compelled to load outside of the bar, which subjects the slippers of produce,over and above the harbour toll, to the eame expenses for lighterage, as those who ship from the lake shore. Your memorialists also consider themselves fully warranted in assuring your Excellency that there is every prospect of at least as large a business being done at Port Stanles, during the approaching summer and fall, as took place last season, and̆ If futh should prove to be the case, the tolls for 1841 will amount to al least $£ 1050$, or upwards of 16 per cent on the cayitul expended.

Nothing can illustrate more strongly the disadvantages under which your memorialists labour, than the fact that British vessels last fall cane to Port Stanley and dscharged their curgoes of meichandize, and rather than load wheat there at one shilling currency, preferred going over to Cleveland, on theA mericanshore, and taking their chance of obtaining freight from thence to Kingston, at ninepence, currency , per bushel. Ai the same time two vessels were lost, occasioning a sacrifice of property amounting to upwards of £2000, and many of your memorialists were heavy sufferers thereby and all in consequence of the ruined state of the harbour.
Your memorialists would furthermore represent to yourExcellency that there is no harbour on Lake Ene or any point at which it is practicable to make one, which possesses such strong claims on the attention of the Government, as Port Stanley. A large annual revenue is derived to the country from the collection of duties on foreign 1 mports there, salt alone yielding in some years upwards of $£ 500$. It is the natural outlet of the finest wheat growing townships in Canada, as also a great portion of that fair and fertile district of country watered by
the river Thames, together with parts of the Western, Huron, and Brock Districts. It is situated at the month of a stream wheh discharges a greater body of water tato hatic Erie than any other rivers or streams tithng into that Lake, except the Girand River, and perhaps the Otter Creck. When once over the bar at the entrance of the pers at PortStanley, veseels ride safely in 10 and 11 teet water in the harbour, and alongsude of the wharves, and had it not been for the break in the ea-tern pier, which permitted the water to rush through it during the freshet the spring, your memorialists contidently beheve there would have been an average depth of ten fect water in the tiur way, in place of having a sami bar at the month of the habour with only six feet water upon it. Port Stanley is the most direct point of communication on Latke Erie with the great milltary depot in the heart of thes district, and your memorialists have learned wi:h much satistaction that the most extensive proprietor of real estate at Port Stanley has gratuitous!s placed at the disposal of Govermmenta sufficient quantity of land on the west side of the harbour for a naval yard, and for the erection of wharees, for the exclusive u:e of Mer Majesty's naval force on Lake Eric.

There is one subject connected with the harbour to which your memorialist 3 desire to call your Exceltency's especial attention. When the harbour was in a proper state of reparr, steamers ran regularly during the season of iarigation betwern Chupewa, Buffalo and Purt Stanley, brınging hurdreds of British emigrants who otherwise might have settled in the United States, as numbers of our weathy farmers can testify at the present day. Should the tide of emigration this season flow into Canadi, as in former years, and as we have now reason to anticipate wall be the case in future, there is no channel through wheh emigretion by the Si. Lawrence and Now York, can find such ready access to the Western part of the Province, as by means of steamboats running from Chippewa and Buffalo to Port Staniey, but wheh your memorrahists can never expect to see unless there is a proper harbour at the latter place.

Your memorialists have frequently witnessed with feehngs of deep mortucition, the runous condition of the harbour reacturg on the state of our markets and depressing the prices of our stapie agricultural products, and ihereby sowing the seeds of arritation, dissatisfaction, and invidious comparisons, anorg all classes of Her Majesty's faithful subjects.

Your memorialists earnestly call upon your Excellency to adopt such steps as your Excellency may deem wise and proper to secure to this important district, and to the Brash shipping naviga ing these Lake's, a roud, proper, and substantial harbour at Purt Stanley, and thus wrest the province from the unputition un-
der which it hes, of sufiering one of its few public works, actually yielding a revenue nearly three times more thin the ligal interest upon the sum expended in its constructuon, to fall to rum and decas.

And your memorialists will ever pray.
harbochs on tamfe ont imo.
The barbour at the head of the Lake, and which is first in order, elliocras to its situation on the Lake, or itsimportance to the commumty, is Burlingiton Bay:

This harbour is a formation, only on a larger scale, smular to the l'emusula opposte to 'loronto, and with the bars furmed at the mouth of all the rivers wheh rum into our magniticent Lakes.

It is usual in this country to call these rivers crecks; some of them mity properly be called crecks, but the grenerat appheation of the term is decidediy incurrect. A creck, properly so called, is "a small port, or urty, or cove," or inlet of the sea or Latkes. Vers many of the rivers on the CanadanLakes empty themselvee into these inlets, and have theretore been dentified with the creeks, and the terms have been improperly made synonymous. We shall probably on some future opportunts take uccastun to explatn some curturs $\boldsymbol{f}$ henomena connectel with the formation of these creck:, and be able to adduce from then a confirmation of the fact, that the waters of our great inland seas have been gradually diminishing, nut only in extent, but in depth, and we may possbly be aible from the evidence they afford, to furm some 'dea of the period at which these changes have taken place, torether with some of the impurtant effects wheh have resulted frum them,-:is subject in itself curious and highly interesting, but chefly important as connected with our present subject, because t will enable us to form some correct ideas on the camses of the furmation of burs at the mouths of all our river:, whach is intimately connected with the important knouledge of the means of preventing of remuving them.

The renarks wheh have been made in reference to the construction of the harbours onLake Erie are fully applicable t.) the Burlmgron Bay Caral, and we feel we connot do beiter in confirmation of this obseriation than tu annex an extract from the report of a survej inade last autumn of the meporiant work by a Cisal Engeneer of this l'rownec.

Report of a Survey of the Burlington Bay Canal, with plans and cstimates for repuiring the same, together with plane and estimates for a new Canal, madi for the infortion of His Excellency the Gioucrnor General.
In pursuance of instructions furni=hed me, I have carefully inspected the abose work, and beg leave to accompnny my report with adrawing of the Canal in its present state, wheh wall shew generally its condition, depth of water, site, \&c.

This report is also accompanied by a chart of the head of Lake Ontario, with a slectch of the site of the present Canal, together with that of the one contemplated.

It is impossible by any drawing to cxhibit the etate of ruin of the present Camal. On entering it from Lake Ontario, to the south are the remains of an intended break-water, originally several hundred feet in extent from nearly north to south, and once partally loaded with stone, the whole of which is overthrown and washed away, except the ples, whel: are exceedingly dangerous to the navigation, more especially in attempting to enter the Canal in the night, or during heavy storms.

The extreme end of the south pier is also washed away, except the pilos, which add in no inconsiderable degree to the danger of the navigation.

A portion of the south pier adjoining wos removed by the late gale, and no dependance can be placed upon its resisting the next storm which arises.
[Since writing the above, the breach which had been made by the late gale has $s n$ much encreased as to endanger vessels on entering the Canal, to which something should be mmediately done. A second breach of sixty feet in extent has also been made within the last few dayo, and it is imposible to say to what extent it may be carried during the winter.]

The remaining part of the south pier to the beach is the most substantial part of the work, having been better constructed, and repared only a fey years ago.

The south-west pier has been removed from its original position nearly from one end of it to the other-the bottom logs lying upon their sides-caused, in the first place, by having been built upon the sand and undermmed by the current, but affected in a still more mjurlous man-
ner by the pressure of the see. The water between the pirrs in the Canal never freezes, whilst the ace on the outides is fiequently from two to three feet in theline: : subject of courso to its usuai expanston and contraction. The current wheh oconstiatly pasing ecther into or ont of Burluggton Bay, under the influence of the presuuling winds, wheh it frequently does at the rate of four or even sax nules an hour, necessauly carries away the sand from the bottom of the Cimal, and partially from underneath the cribs which furm the prers, producing a tendency in them to fall inwards, and the more so, heciuse whibt the sand is washed away within the Canal, i : accumulates without it at the back of the pier.

In addition to thes, the pressure of the ire has been so great as to drive the prers bodily into the Canal, breaking off some and removing others of the pules, so much so that there is no foundation which can be relied on for making any efficient and permanent reparr upon the present sitc.

The timbers of the north-west pier are most of them gone, and the greater portion of 1ts entire length is about two feet under water.

The north-cast pier is on the whole in the most efficient state, but in a very short time will be in as bad condition as the other pters which form the Canal.

In the present state of the finances of the Province, it is presumed that it would bo thought adiecaile, if posstble, at least for two or three yeare, to kecp the preen; Canal navigable whout any large expeniature, and a close ex:mmation has been tade with this object in view; the conclusion, however, is, that the navIgation of the Canal canno: be ensured for a single seazon, - that the state of the piers is begond any teuporary repar-and that ang repar to be at all dfietent, would require an outlay of at least $\mathcal{L} \because 5,000$, and even then at is belteved would not be durable, or avalable for the purposes for which the work was originally intended.

There ajpear, moreover, several reasons against expending so large a sum in reparing the present Canal.

A very considerable portion of the sum required will be necessarly expended in taking up the old work, whech will prove to be a diff-
cult as well as an expensive and tedious operation. The site of the present Canal too is now admitted by all persons who are acquainted with the navigation of Lake Ontario, to have been injudiciously selected. The depth of the Canal does not in some parts exceed elevenfeet six inches, and it cannot safely be deepened,whilst the water is at present a foot deeper than it is at some seasons.

The width at the narrowest part (the bridge) is not sufficient to admit our largest class of steamboats to pass through it.

And beyond all other considerations, it is believed that the growing importance of Hamilton and its vicinity, more especially if the contemplated railroad from that place to the $S$. Clair should be carried into operation, will require a Canal between Lake Ontario and Burlington Bay far more capacious and commodious than the present one is, or can be made by any repairs which can be effected.

The next object was to examine if a better site was not to be found, as well as to ascertain what would be the cost of a Canal sufficiently commodious, and which would be both substantial and durable.

An exammation was first made of what has been generally considered the natural outlet, and which it was stated had on some occasions been sufficiently deep to allow small vessels to pass through it. The nature of the substrata was examined, as well as the depth of water, and the relative distances into both the Bay and the Lake. Bearings were also accurately taken, and observations made of the effect of the winds during heavy gales from the north-east, south east, and south, and a chart was drawn with these respective bearings laid down.

Enquiries were extensively made of Captains of steamboats, as well as sailing Captains navigating the Lake, and after the most minute investigation and deliberation, it was concluded, that the nearer the Canal can be placed to the north shore, the better it will be, and for the following reasons:-

A very cursory examination of the chart will shew, that during strong north-east, east, or southerly gales, the waters of the Lake will be driven with great violence towards its termination upon the beach at Burlington, where the well is greatest, as the water is less sheltered by the head lands and the north shore. Near
the shore there is comparatively little swell, which increases with the distance from the shore.

During northerly winds, the water near the shore is calm, whereas a heavy sea is encountered even at the entrance of the present Ca nal.

During southerly gales, especially thosefrom the south-east, there is the greatest swell on the north shore, and wherever the site for the Canal is selected its direction must be so chosen as to promote still water with the wind from that quarter.

Under all these circumstances the site and direction of the new Canal, as marked upon the chart, has been preferred.
[The Hon. John Macaulay, late President of a Board of Commissioners for improving the internal navigation of the Province, appointed in 1824, has, since this report was written, obligingly favoured me with a copy of their proceedings, which were conducted with great care and assiduity, -and it is very satisfactory to be able to quote the opinion of that Board, confirmed by the Engineers employed by them at the time, which is to be found in their report in the following words:-" In making choice of the situation for the Canal, every proper consideration was given to the advantages and disadvantages of every part of the beach, and after comparing them it was the decided opinion of the Civil Engineer, in which opinion the Marine Surveyor concurred, that immediately under the high bank near Mr. Brant's, was the most favourable point for the work."]

It, however, became necessary, before determining, to ascertain the practicability of the site selected-and to examine the substrata and other localities.

And this was the more necessary, because it had been reported by former surveys that the rock formation extended from the shore to about this spot, and the rock was stated to be within about six feet of the surface. Soundings were again accurately made, both on the Lake and on the Bay, and no rock could be found by boring with a rod 20 feet in length below the surface of the water, and it seems highly improbable that a formation of rock should have existed so near the surface on a narrow ridge of beach which had evidently been formed by
the waters of the Iake, and which does not excoed 100 yards in breadth.

It appeared probable that an accumulation of etone: which had been washed up from the Inake, the number of wheh evdently increased in a drecton towards the angle of the Lake, and wheh it wutu be vers duticult for a bormg machme to penctrate, had been mustaken for a rock formation.

This opinon derwed conurmation from the name given to the part of the beach by the Indanns, -wheh was stated to me by Mr. Kerr, Succusumekong, in accumulation of stones, as they translute it. A rod was with difficulty, however, furced down upwards of twenty fect through the beach, as well as in several other marts on the margin of Brant's Pond, a little further north, as well as south, with the same result.

In order, however, to remove all doubt upon a point so important to the future progress of the work, it was determined to sink a small shaft through the beach,-more especially as it was tound impossible from the nature of the sand to bring up with the borer any of the soil into which it last penetrated. $\Lambda$ Kurb was provided, and the result has proved that a Canal may be for.aed at any part of the beach south of where these trials were made, and it is believer that if it were dessrable, it may also be effected still farther north.

There is good reason for believing that the outlet Ly which the waters that run into Burlington Bay have discharged themselves, has been formerly to the north of where the shaft was sunk, and it has been probably very near the cliff, through what is now called Brant's Pond. It is beleeved that an accumulation of stones having been thrown up into the channc! during the precalence of strong gales from the south-east, which the press of the water was unable to remove, it rose in consequence above its ustual level in the Bay, and found its way over that part of the beach whech, being composed principally of sand, could be more easily displaced.
It is worthy of remark that so soon as the Canal was opened this channel immediately filled.

Soundings in that direction having been carefully taken, distances ascertamed, and the bearings of the different head landslaid down, theplace
recommended was selected as on the whole the best :ate for the Canal, and it is believed that it will prove to be as was stated by a very intelligent saling Captan whose opinion was asked, a blessing to persons who like himselt hat been exposed to the dangers and difficultues arising out of the want of a safe harbour at the hea:l ot Lakr Untario, as well as of approaching the present Canal in stormy weather.

It will be seen by a reference to the chart that a harbour of this deecription will be formed instde the piers of the Canal, where there is the best anchurage, and where vessels may ride in safety during the heaviest gales from whatever quarter they may blow.

The next consi ${ }^{1}$ eration which presented itself, was the nature of the construction of tho intended Canal. Whatever that construction might be, it is obvious from the preceding observations that it must rest upon a foundation different from that upon which the piers of the present Canal stood. The foundation must go through the sand, and if possible rest on the blue clay formation which is to be found beneath it, and if built of solnd masonry, must probably eren then be supported on piles.

The instability of the present structure has arisen from the pirrs having been sunk on the sand, without dredging so as to reach the blue clay which is to befound at about 91 feet deep; and the inferiority of the workmanship has in no small degree contributed to it.

Had the bottom been dredged so as that the cribbs might have rested below the wash of the Canal, and hard the workmanslip been of a bet. ter character and able to resist the force with which it had to contend, it is presumed that the Canal might have answered the purpose for many years to come. It will be found practicable to construct the new Canal upon similar principles. remedying the above defects, and the part out of water may be covered either with solid masonry or with t!mber well framed and filled with grouting, and covered with a substantial sea pavement.

It is submitted that there are four modes of construction which present themselves.

First, by excaration through the beach to the required depth, forming the banks of the natural soll, with a slope of about 30 degrees.

Second, by the formation of coffer dams formed by close and deep piling, filled in with
well puddled clay and stone, so as to be impervious to the wash of the water.

Third, by solid masonry at both entrances, and coffer dams between the intermediate distances.

Fourth, by solid masonry for the whole.
Estimates with sketches of each of these methods are annexed.

The first method, which is by far the cheapest, is liable to many objections.

The water at the sides of the Canal will be necessarily shallow, and notwithstanding the slope is so gradual, the action of the current, aided by the natural swell, as well as that produced by the paddles of the steamboats, will render constant dredging necessary. Eddies will be formed by the prevailing winds, and the channels at both entrances will, it is believed, be shifting, and of course difficult to discover.

The formation of suitable coffer dams will be an efficient and permanent structure, if the piles are well driven into the blue clay, and close together, aided by sheathing so as to prevent the material with which they are filled from escaping, capped with a strong and well executed frame work, mortised down upon the top of the piles, well braced with cross ties, and the whole to be below the low water mark.

The superstructure out of the water may be formed of framed timber, filled with stone, and covered with a good sea pavement laid in water lime, which can be easily repaired when necessary, without disturbing the foundation, which it is believed will be very durable; these coffer dams may be made accessory to the erection of piers of solid masonry at some future period, and would be so much in aid thereof.

The third plan, or that of solid masonry for the two entrances, and coffer dams, formed either of cribs or by piling, will be perhaps the most to be recommended.

The fourth, or a structure of solid masonry, is the mode by which works of a similar description have been erected in Great Britain, and although it would be attended with some difficulty in its construction, is nevertheless very practicable, and would last for ages. Stone of an excellent description is to be obtained suitable for it both on the Lake shore at Hamilton, and in the mountain within three miles of the place, where it is inexhaustible, and is of the finest quality.

Estimates of the cost of each of the above structures have been carefully made, and are appended to this report.

It has been considered that this report should state what the probable income arising from the Canal and Lighthouse will be, to enable his Excellency to judge of the return likely to be made for the sum expended.

It is satisfactory to be able to state, that with a due regard to the collection, there is every reason to believe that a revenue will be realized sufficient to discharge the interest of the sum required for the completion of a permanent structure, and it is also believed that it will become capable of gradually lessening and ultimately of discharging the principal.

In the year 1835-6, the tolls amounted to about $£ 1900$; for some reason not ascertained about that time the rate of tollage was greatly reduced, and since then the amount collected has fluctuated greatly.

It seems to be generally admitted that the tolls require to be remodelled, and it is asserted that they are capable of being made to produce $£ 4000$ per annum, without being oppressively high to any class of the community.

It is also observable, that although the public have the accommodation of a bridge in passing across the beach, by which a distance of 12 miles is saved if persons traveling were obliged to go round by Hamilton, no toll is charged.

It is believed that if a moderate toll was collected it would produce a revenue of $£ 500$ per annum, from which no deduction would be made for collection, as the same person who attends the bridge and the light- house would also collect the tolls.

Nor could any reasonable complaint be made by the public against paying a moderate toll for the use of a safe and commodious bridge, because before the Canal was cut the passage across the beach at the outlet was frequently dangerous, and sometimes impracticable, and various accidents are stated to have occurred.

It may perhaps be desirable to expend a sum of about $£ 300$ in improving the beach road, in which case it is presumed the public would not only be greatly benefitted but fully satisfied.

Estimates are then given of the cost of each of the four methods named, -the first is cstimated at X 6500 ; the sccond, incluaing bridge and light-houses, at $\mathrm{L} 33,9 \mathrm{ais}$ ss. Gd.; the thrd,
also with bridge and light-houses, at $£ 45,000$; the fourth, with bridge and light-houses, at £ 80,492 . An estimute is alco made for a breakwater 300 leet long, which would cust $£ 1500$.

COLONIALTRADE.

Tre following documents on the trade of the provinces emanate from those who are greatly interested in it, and therefore deserve a candd consideration. In the first, the North American merchants in London state their opinion respecting the propused alterations in the tea trade, and recommend an application to the Canada Legistature to reduce the dity on tea. The prupricty of this reduction was stated in our last number. The present duty on tea inported into Canada is $\mathfrak{d}$. per lb. on Bohen, gd. per lb. on IIyson, and dil. per lb. on all other kinds of tea. Now, it costs $2 d$. per lb to smuggle tea, patily from the extra cexpense and risk of smuggling, and partly from the smuggler buying at less advantage than the fair trader. Therefore, if our duty on teabe reduced so that the whole duty does not exceed 3d. per llb. we shall put a stop to smuggling, for the 1 d . per lb . aifference is too little profit to pay the smuggler. This rec.ection of duty would not lessen the revenne, but it: rease it; for at present about three-fourths of all the tca used in Canada is smuggled, and therefore pays no duty. But when smuggling shall be stopped by a low duty, all the tea used will pay that low duty, and will therefore contribute to the revenuc, which will thereby be increased instead of diminished.

The bill founded on Mr. Labonchere's resolutions in the House of Commons on Colonial Trade had had a second reading, and would most probably pass without firther opposition. The reduction is now brought to 7 per cent instead of 10. The Act, supposing it passes, will not go into operation until next year.

## Lonnon, March 29, 1841.

Str,-We beg leave to address youron the proposed alteration of the law in respect to tea imported into the British North American Culonies.

It is stated tina the olterntion is proposed in consegucher of extemone smugeling in green ten from tho thited States inte Uppur Cumadia.
It may be promiced, wat ien improred fram Chinn, by mathe wheild. into the Chited States of Americn,
 durs if ed prer pumed whon impurted frum the United
 a tuade whish have heren hishurto prethibised by allowine ten to be branght, by indand ma iention, from tho L'metel States, inite the Britith North American Colomiss, an an addition of ten per cent. ou the add per pound.
When ten bore a duty in the United Statea, there wa; un sumegling iuto Camads, exect at then periouls when Counpun's ica uns ut a high price in this rountry; and when the Gencinment of the Unied Stures made the anticle dury free, it "ad the nmxinus desire of the mercanile body in the Canadas, that the Inemi-lature of foowre Candin should reduce the dury, in order to mert the apirehembed evils of smageling ; it is, huwewer, uell kimm thent the legidnture gavo nuntertion to the puint, amb were engnged with alImed pulaitical grievances to the exclusion of matters of tude, and of almost all other sutyjects.

We dunt deny that there is smuggling in tea fiom the Unitell States into Uplyer Camad ; onthe contrary we almit that it hats cxisted. but nut to the extent genorally nisumed. We humbly presumo however. to think that we shail satiofy yuu, that the proposed nteration will mot only fuil to prevens the esil, but that it will errainly i.areesese it.

Wia take it the gramert, that it is allowed that the smuigling refuried tu is not occasioned by the article bc:ny probihited as an article oitrade from the United States intu Connda; and that it is ocensioned by the bifher pice in Canada offring a large semptation to the smuggier. This higher price is occasioned mainly by the duty of th per pround, which is equal to nearly twenty-five per cent. ad valorem.
But the propased addition of ten per cent on the $4 d$ per lb., or on the twentyfive per cent ad valorem, will certuinly increase the nmuunt of smuacling, while the withdrawing the prohibition will leave the article, when within the lines, no hinger an olject of suspicion, nnd, therefure, much less liable to seizure than it has hitherto been. It can never be argued that the legalizina of the trade will make the smuggler nn honest trader; the temptation to smuggle remains, nay is increased. The true policy is surely to reduce the duty considerably, and it is believed that the revenue will not be imgured herchy.
With regard to the poim assumed, that the Americans surfly a more suitable article than the British
trader, for the use of Upper Canada, it is, if true in fact, an argument not fair towards the British trader. When there was a duty on tea in the United States, Great Britain supplied nearly all the wants of the Canadians; but when it was made dury free, white a high duty remained in Canada, a taste may bave been taken to the cheaper and inferior American tea, which was brought in, in defiance of the law, and without duty; but we deny its truth, and we only want a reduced duty in Canada, and thereby an encouragement to extended trade, to drive the American tea out of use in Upper Canada. The London markel, since bohea tea was made to bear the same duty as other tea, has been largely supplied with inferior green teas; the bohea, which is the woping tea, mixed with a little congou, is now manufactured at Canton into an inferior green tea, the very article which the Americans chiefly import. Indeed there is, at this moment, an export going on from London to the United States of these inferior green teas, imported into London, by British merchants from Canton; and some which had been imported into this country from the United States has been re-shipped to New York. It is right also here to state, that, at this moment, there cannot be less than $£ 50,000$ value of teas, or 8,000 chests going or just gone, from London and the outports to the British North American Colonies, a great part of which is green tea to Canada. Farther, there is an infant trade between Canton and the Colonies, which in place of being fostered, will be destroyed by the proposed alteration. Since the last of the stock of East India Company was sold in the Colonies, six vessels have arrived direct from Canton; and it is presumed that the merchants engaged in the trade from London, and in the direct trade, have an interest in supplyirg the article which is most suitable to the trade, and it surely is not necessary for the English to be taught this by the American trader.

Strong as the case is with regard to Canada, it is, if possible still stronger as regards the Colonies of Nove Scotia and New Brunswick. We are at a loss to know on what ground, because there is smuggling of green tea into Canada, the Americans are to be allowed to import tea into Nova Scotia and New Brunswick ; and it is the more unintelligible to us, because the tea consumed in these two Provinces is black tea. whereas a large portion of the tea used in the United States is green, and it is not pretended that the Americans smuggle their tea into these Provinces.

Still less can we comprehend the necessity or policy of the measure in respect to these two Provinces, when it is a fact that in New Brunswick tea is duty free, and therefore the ten per cent addition on the duty cannot apply, and the Americans will have a trade open to them wholly free of duty; and in Nova Scotia the duty being ten per cent. ad valorem, the American tea will pay ton per cent. thereon, or one per cent ad valorem, placing thereby the Ainerican merchant nearly on an equal footing with the British importer.

Neither again can we comprehend the measure, when it is known that those Colonies have been abundantly supplied with tea by the British trade.

You are, perhaps, not aware that, although tea, when imported into the United States from China direct, is free of duty, it is subjected to a dury of ten cents per pound, when imported from Great Britain or her Colonies. Thus the effect of the proposed law will be to open the whole trade of the British North

American Colonies to the United States, whilst the British or Colonial merchant is excluded by the duty of ten cents per pound, leviet on his tea alone, from trading in tea to the United States.

In conclusion, we heg that Her Majesty's Government, in getting rid of one evil, that of smuggling tea into Upper Canada, may not inflict a great one on the whole of the British North American Colonies, namely the loss of a large trade in tea by British merchants in British ships; and we feel our case to be irresistible, masmuch as the evil can be remedied and a large benefit conferred on British trade by a reduction of the present high duty, and which we firmly believe can be done without injury to the revenue. We, therefore, pray that the proposed alteration may not be made, and that Her Majesty's Government will request the Governor General of Canada to recommend to the Legislature, to reduce the duty on tea imported into Canada from the United Kingdom, and places eastward of the Cape of Good Hope.

We have the honour to be,

## Sir,

Your most obedient, Humble Servants,

Gillespie, Morfatt, \& Co. Gould, Dowie, \& Co. Wm. Pemberton \& Co. Robt. \& Benj. Brown \& Co. W. R. Chapman. Ellice, Kinnear \& Co. Cunard, Ingram \& Co. Wm. E. Logan. W. \& A. Atkinson. Archd. Paull \& Co. Robinson \& Brooking. Turnbulle \& Radenhurst. R. F. Martland \& Co. Robt. Harrison. C. Starbank \& Sons.

Right Hon. Henry Labouchere, M. P.

## Report of the Committee of the Troronto Eoard of Trade, 15 th April, 1841.

Your Committee regret that several causes have concurred, to prevent the presentation of the regular annual report, at the time prescribed by the laws of the Board-among the causes has been the removal from our city of our respectable and zealous Secretary, Mr. Brent. The Committee regret to report, that during the past year, their transactions have issued in very little present advantage; yet, they hope that their labours will not be fruitless, now that the renewed interest and energies of the Board, have been excited by the prospect of their interference and representations leading to those practical ameliorations, the promotion of which is the object of the association. The Committee congratulate the trade that the commercial interests of Canada will now possess their proper weight in Parliament; many of our principal mer-
chanta and financiers having been elected members of the Assenbly.

It is gratifying to your committco 10 know , that in consequance of the termination of tho oljeretionalile combiuatuon, for several vears past existug betwerel the forwarders on the ()tuwa and Ridenu Lines-thit trade is onct mure thrown op- $n$ to competition, and the results will be un immediate impnovement in the whole business.

The diaparity between the currency of Upper and Lower Cabada, your Commetee regret, still contimes to be felt as a surious impediment to the satisfactury gransaction of busituss with Laver' anada a premium of three 4 cont (the rate at which exchange on Montreal has generally been $\mathrm{si}_{1}$ ld duaing the past winter) cannot be considered a trilling item in the dinwbacks incidental to our Provinciul irade. But evenat this diandantag ous rato, the incomvenience might be struggled with, wero the merchant always sure of obtaining hills on Mlutroal-it is, however, an unpleasant fact that it is froquently impossilde to procuto a draft on Niontical on any terms.

The primary canse of this disadvantageous condition of our monniary relations, is, of course, to he foutud in the enhanerd value at which Briti-h Silver in Upper Canada has been rated, in comparison with that which obtains in Lowwr Camada It is to he hoped that tho Legislature will, nt an carly day, ineroduce a law to regulate the currency of the Urited Province. Another most important sulyject of consideration to all classes in these Colonices, is that of the adoption of a uniform rate of postage. Your committe observe that the Buard of Trade of Montreal have sugeested the rate of 3 d . the half.ounce. The aduption of such a measure would be hailed by all as a boun of vital importance.

A continued source of complaint, on the part of exporters from Upper Canada, is the ligh charges levied in Montreal for Inspection, cooperage, \&ic. Se.-These charges, when added to the heavy down freight, insurance, and charges, make an aggregate average of $25 \$$ cent. on the value of flour; and operato very seriously against our agricultural interests. In conrection with this subject, the consideration of the appoimment of regular laspectors nt this purt, presents itself as a matter of great impurtance-Ashes, Flour, Pork, Nic., buught in this market, if not purchased subject to Montreal Inspection, must bo bougltt under the risk atendant on the chance of failing to mect the favourable decision of the in-pectorin which ease, the buger must protect himsilf at the expense of the farmor, by graduating his price, so as to be safe against the uncertain result.

The yearly inerensing quantity of English salt imported into Upper Canada from Montreal, is another subject calli ${ }^{\text {eg for the attention of the mercantile and }}$ agricultural ciasses -Nothing would tend more permanently to redure the freights, hitherto so oppressivo alone our inland communications, than the removal of the duay levied at Muntrial on English salt-large stocks would immediately be held in the interior. and salt the manufacture of the United States. would soon be entirels supirseded. The expertation would thus be saved Canada of large sums of money to a fureign country, which nutori...ily carries on "ith us no compunsatitg tradi. Eigglish salt is far superior to Ampitican, and the curers of frovisions would gready profer it, especially as at inspections in Montreal, Hork and Beef cured with American salt are alvejs discarded.

It must bo admitted that the framers of the Corn Laws in England, in imposing a duty on Colonial wheat, Suur and other grain, did not tako into consideration the very heavy freight and charges so which they are subje cted on shipment from the lahe ports of Cannda to England. These charges, on Wheat, are as folluws:-

Sterling.
1.-Transport and Insurance Srom Ports on Lake Ontario, (from Lake Erie nod Huron they are much higher) to Montreal, including slipping charges thure, \& quarter.
£0 $10 \quad 0$
2.-Fright fiom Montreal to England, \&f quarter, . . . . . . . . . . . . . . . . . . . .

0100
3.-Insurance from Montreal to England, valuing the quarter of whent at 40s. and tiking the premium at the lowest rate-say 24 cent, axclusive of policy. making in the quarter,
4. - Interest on the cost from the time it is brught in Canala of the farmers, say the mindie of January, to the time of its autival in England, which is seldom earher than July, equal to 6 nunths amounts, on the quarter valued at 40 s , to.
$012 \frac{1}{4}$
5.-On an articlo like Wheat, which is liable to great ingury from a long voyago the actual extra risk over and above what there is in shipping it from the North of Europe to Eugland, canmut be computed at less than 4 dff cent, which, at the cost of 403 ., makes on the quarter,

0 174
Total $137 \frac{1}{2}$
To this add 5s. sterling \&f quarter duty, we havo then a sum total of $£ 18 \mathrm{~s} .7 \frac{1}{2}$ d. to be paid before the staple produce of our Colony can be sold in a British maiket. This calculation which is based un experienco and trubh, shows most conclusively, that the British agiculturist can have nothing to fear frum the importation of wheat, flour, and other grain, from the Collonies of ivorth America, duty free, when they are protected to such an extert.

It is also obvinus, from this calculation, that the wheat growers of the North ol Europe, who ship immenec quantities to England, are, in consequence of thrir having such low freights and insurance to pay, and so little risk to run-placed in a much more advantageons position than the Asricularists of Canadato make this apparent the Committee would add:-

That when the avernge price in England of wheat, is 64 s . to $6: 3 \mathrm{~s}$. \&f quarter, the duty on foreign wheat is £1 2. 8d.: to this my be added 4s. \# quarter, which is a sum sulficient to cover freight and insurance from the averuge of the ports in the North of Europe, whener it is sent to Fenglani-these added together make $£ 16$. 8 d From Canada, with the same arcrage, and with our hravy froights and charges, it wnuld be dulacerd in England for $\mathfrak{E l l}_{1} 8$ : $7 \frac{1}{2}$ d. $\ddagger$ quarter; being ls. $11 \frac{1}{2} \underset{\&}{\&}$ quarter in favuur of the fareigner.

[^1]To illustrate the matter still farther, take the following averages at whth the great bulk of foreign whent enters the British markets, and the disadvantages under which we labour are still more fully demonstra-ted:-

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | subject to a duty of Gd. per quaster. |  |  | 24s, $1 \frac{1}{2} \mathrm{~d}$. |
| Ditto, | ditto, | ditto, | 703. to 718. | ditto, | The Foreigner would pay <br> The Colonist | 14s. 8d. | 4 | 18s. 8 d. |
| Ditto, | ditto, | ditto, | 71s. to 72s. | ditto, | The Foreigner | 103. 8d. | . 1s. | 14s. 8d. |
|  |  |  |  |  | The Colunist |  |  | 24s. $1 \frac{1}{2}$ d. |
| Ditto, | ditto, | ditto, | 729. 0 73s. | ditto, | The Foreigner . . . . . . . . . . . . . . . . . . . | 6s, 8d. | . 4 s. | 10s. 81. |
|  |  |  |  |  | The Culomist |  |  | 24s. $1 \frac{1}{2} \mathrm{~d}$. |
| Ditto, | ditto, | ditto, | . . . 73 s . | ditto, | The Fureigner | 19. 0 d . | . 4 s. | 5s. 0d. |
|  |  |  |  |  | The Colonist . . . . . . . . . . . . . . . . . . . . |  |  | 92: 11 d . |

From the Colonics the wheat is always sent in British ships; from forcign countrics a consid arable part is shipied in vesscls belonging to tho country fiom which it is sent. Tho Colonists receive payment for their wheat in British manufactures: tho foreigner generally in specie.

The natural disalvantnges under which the farmerlabours, fi um the above charges in our exports, as well as from an inereased price which our position makes him pay far Britull gionds (already heavily taxed) are, the Commanter comider, Luadens, as near an equivalent to the mure direct axas of the muther country, as any one wuald liko to see borne by Colunists.

Daring the past gear, when butter was unusually high in Emplant. some stnall shipments were mado; and althugh the honvy daty, of 20 s. Surling $\neq$ cwt. (then same shat is levied on the importation of foreign butter,) had to be contended agninit, it was found that the profits were remunerative. But when it is cono sidered that much o. the butter expurted, was bought from the farmers, at a low a price as 4d. $\ddagger$ pound, (or nbout 3 jat. Stirling.) it is nat to be expected that, without the withdrawal of the Ilome duty, this branch of our export trade, which is capable of vast extension, can improve.

The Briti-h. Manufacturer has not yet to learn, that in these colvaice, the ouly limitation which our demame for his goods hnows, $i$, the extent of our ability to make returns in the products of our soil; and tho foutring of our reanurces is merty the means of sustmining in greater vignur, the important manufncturies of the mother camatry. The removal of all disahilities which stand in the way of unr mgrimblural inere:ts shomidh argag. our :nost st:enumusefiorts-forour commetial advancement must keep pace with our agricultural improvement.
It appenss to your Committer, that from the very intiunate comneciom existiva lietwern Upper Canada
 of unt whote tade and the point at which centre all our hippine relations with Grent Britain, nuch ndvanug. wuld necrite to us were liventeal reated a free port. Whilst the 1 -hant of Jomaica has no less than ten free purts, the whole of Canada pussesses only one; and that tuo. the dist ant, and comparatively inconveuient purt of Quzhec. By this monopuly, the trauting imene-ts of Minnerval, and of the whule of the gerat commenerial districts, of which that port is the grame comfunme, are allowed to labour under very seriuns incenvenience.
The Commillese would also recommend to their successors to ase the influener of the Beard of Trate to have Tornuto mande a Warehumeng Port, by which munas Tea, Wines, Spitits, and a number of other artiches on which the duties are high on importatica, could be warchomsed nud the duttes paid when the goonds were required, -thons a considerahle umlay of capital in the shape of duties which are now generally pard on landing in Lower Cannda would be saved by the impurtiug merchunt, who has already many inconveniences to contend with, in having his whole ycar's stock uf good to provide during the short space of six or seven months.
The Committec have dillayed their advocacy of the great internal improvements which are necessnry to the opening up of the Hume District, until the Board of Works, lately established, may be communicated with; because it is only with the assistance of Government that such undertakings ns the connecting of lakes Huron and Ontario can be attempted, or any others, which will materially compensate this city for tho withdrawal of the Seat of Government.
The prohibition, by which tea is prevented from being legally imported from the Unired Statej, tu Committeo observe, with much gratification, will in nll probability bo removed during the present sestion of the Imperial Parliament.

In this, as well as some other important changes, the Committee have pleasure in recognizing the advantage of having, as Her Majesty's Representative in these Colonies, a Statesman conversant in the details as well as the theory of commercial affairs.

The Committee cannot omit urging on their successors the necessity which exists for the passing of a general Bankrupt Law lor the Province, and they trust the attention of the United Legislarure will be directed to this important subject. Divested as the Board of Trade has been, in all its operations, of even a shade of political or party feeling,-the importance of every one interested in commercial uffairs identifying himself with an institution which may become of essential benefit to the city, must be obvious. The Committee hope that every merchant in the place will join in forwarding the objects of an association which has made some progress in public estimation, and the usefulness of which ought to be extended to the utmost possible limit. It becomes a matter of duty on the part of all engaged in commercial pursuits, not to iest satisfied with merely according their sanction, but to render active personal assistance in bearing out its operations.

## (Signed) J. WORKMAN,

Secretary.

## Qtobec Address on the Timber Dities.

## To the Queen's Most Excellent Majesty.

The petition of Your Majesty's loyal and dutiful subjects, the inhabitants of the City and District of Quebec,

## Humbly sheweth,

That your petitioners have heard, with great alarm, that your Majesty's Ministers intend proposing to l'arliament, during its present Session, in alteration in the duties now levied in the United Kingdom on timber and deals.

That these duties, as they stand at present, afford no more than a bare protection to Colonial timber and deals in the British marketthat any alteration in favour of foreign articles of the same description would involve in ruin many of your petitioners, and others of your Majesty's loyal subjects, who, on the faith of the Imperial Parliament, by whose acts the colonial timber trade was created, are now deeply engaged therein, and would have an equally injurious effect on other great and important interests which have grown up under the encouragement thus given to the trade.

That the colonial timber trade had its origin In the necessities of the empire, during a time of war, when there was reason to fear that the safety of the country might be endangered, were it left dependent upon foreign powers for the supply of an article of such primary importance.

That the cotntry may be again place 1 in similar circumstances, and that a trade which, under the fostering care of Government, has taken more than thirty years to aitain its pre-
sent magnitude, could not, if destroyed, be nuddenly revived upon such an emergency.

That in the year 1821, peace having been restored and consolidated in Europe, an enquiry was instituted into the timher trade, to ascertain how far the scale of duties then in force would bear modification, and after a long and laborious investigation by a select committee of the House of Commons, and after maturely weighing the evidence brought forward on all cides of the question, the present scale of duties was determined on. It was considered an equitable adjustment, enabling competitors from all quarters to meet on equal terms in the British market, and on the faith of its permanency large numbers of British subjects have continu ed to embark in the trade.

That in the year 1831, a new scale of duties was proposed, and having been submitted by ministers to the House of Commons, was rejected by a large majority.

That your Majesty's subjects in the colonies then thought the question finally set at rest: and considered that they might safely embark in the trade to a larger extent than ever. In four years afterwards, however, a select committee of the House of Commons was again appointed to enquire into the expediency of altering the duties, but although a great majority of that committee consisted of persons opposed in opinion to the protective principle, and although no pains were spared to bring forward a preponderance of evidence in favour of their views, the result of the enquiry was so favourable to the colonists, that ministers abandoned their inten ion of proposing any alteration in the duties, as adjusted in 1821.

That notwithstanding the uncertainty and suspense to which the staple trade of the British North A. Colonies has thus, from time to time been exposed, in consequence of the changes which have been proposed therein, your Majesty's petitioners, and their fellow-colonists, reIying on the justice of the British Parliament, and confident of being able, provided a fair opportunity were afforded them, to rebut any evidence that could be adduced unfavourable to their cause, have gone on enlarging and extending their investments and operations, until their annual exports, from this port alone, exceed 1200 cargoes, (mostly of timber and deals, affording the chief means of paying for our imports of British products and manufactures, the value of which exceeds $£ 2,000,000$ annually.

That on all former occasions of Legislative enquiry affecing their interests, your Majesty's subjects in the Colonirs have had an opportunity afforded them of refuting any incorrect statenents that minht be made to their prejudice, and it is with ihe dcepest alarm that your petitioners now make known to your Majesty that, on the present occasion, they have had no anch opportunity, - that the persons called before the
select committee of the Ilonse of Commons, appointed last session to enquire into the duties levied on imports, for the purpose of bemg examined on the timber thade, were exclusively such as were known to cutertain opimon.; adverse to your petitioners, or to be interested in the timber trade of foreign countris-ind that the evidence given by these persons contam: statements and assertions highly injurtous to the interests of the province, and enturely unfounded in fact.

That the people of Canadn have been greatly misrepresented by those who have asected in their name that they would be willing to be deprived of the protective duties on their timber trade, provided the existing restrictions on their import trale were removed. These resirictions are few and unimportant, benser musily intended to proiect British products and manufactures from forcign competition, and theec your petitioners behere require no such protection, but if they did, your petitoners ber humbly to assure your Majesty, that it would be checrfully submitted to, their desire being to perpetuate the connexion between the Mother Country and her Culuny, bs maingoit antuatly bencficial.

That timber and deals are the chice articles of export which this country produces, and must continue to be so, till a harge portion of it shall have been brought under cultevation by a greatly augmented population. This, the limber trade is eminently calculated to produce, be the cheap means of conveyance across the Attintic wheh it provides for the poor cmigrant in ships coming out in ballast; by the ready means of employment which its various operatuons of sawing, shipping, and preparing for shipment afford him on his arrival; by the relief and support which the old as well as the new settler derives from it, is consequence oir its furnishing then with occupation durng a long and serere winter, when argreultural operations in this country are inppraticable-and by the market it furnishes to the firmer for his produceat his own door.

That the lumber trade gives comploymentend the means of subsistence io a large portion of the population of this Provime, and that the interests and prosperty of the whole are m a very great measure dependant upon th,-that its value, when shipjed, it the prounes cachasively of the labour of Buitioh .andiccto, and paid for in British groods,-that in its irimephrt it gives employment to more Brtis! 1 shipping.:nd more British scamen, than any other trade within the whole range of Britich commerce, with the single caception of the hume con ther trade, and that should the proiecting dutics be reduced, all these advantares will be revenomb in favour of foreigners, who will not receive British goods in payment, but require mone:, and unrestrained by competition, ".ll then charge their own prier, the consmate payiar in
price to forcuger.i, what lie now pays in price to your Majesty's 'Treasury.

I'hat a large poriton of the capital of the colony is invested in sitw mill:, wharves, and other fised properiy nocessary for carrying on this trade, and that it slight alteration in the protectue duties would enturely destroy their valuc.
That your petitioners abstan from entering upon :o catensive a subjcet as the effects which the dreadtul measure would have upon the prosperioy of the cupure at large, but they cannut (iu) strungly express to your Majesty their coinsetuon, that to the British North American Colonics its effects would be most disastrous.

Wherefore, your petitioners humbly pray that your Miajesty, taking the premises into your fivourable consulderation, will be graciousi; pleased to mantam your petitioners, and the province at large, in the privileges and protection which their trade now enjoys.

Ind your Majesty's petitioners, as in duty bound, will ever pray.

It may be questionel whether this petition dul. nut caurferate the luss to be apprehended from an alteration of the timber duties, and thereby weaken the case wheh it is intended to maintain. It predicts absolute min from any ("a very slight") alicration of the duties, which, it is said, "as they stand at present affurd no more than a bare protection to Colonial Thuber and Deals in the British market." The duties are 10 s . per load on Colonial timber, and 55 s . per load on forcign. And the difference of duty is really mach greater than the difference between these two sums, because of the great difference in the quality of the two articles, Colonial timber being much inferior in quality to Baltic tmber. There are some persua, wh:o deny tha, but no one in England duluts it who has ever tred the two kinds of umber. T'aking then this duficrence of quality inso account, the duference of duty will be as cre to ten, for the $3 j$ :- on forcign timber are equal to 100 s . if the dutics were levied according to quality. But waiving this altogether, there is a gencral mpression in England that they are payeng too dear for the protection of Colonal tumber, and that an alteration of the duties may be made to their advantage without much loss to the Colonies. For whether the alteration be by ralucing the duty on foreign tit:ber, or rising it on Colonial, there will be stull a consulerabic infference mantained in favour of the latier, to that: the predicted ruin will mi. follow as a matter of course, cven if no other channels were npencel for the trade.

Wo thins that the Government should retain the present duties if they can, for the colonies deserve all the protection that can bo afforded to them without bearing too heavily on other interests; but we are aware that the desire for an alteration of these dutics is sostrong in England that it will be difficult for ministers to resist it. Some persons have supposed that this desire is confined to those who are either enemics of the colonies, or interested in the Baltic timber trade, but this is a mistake, for the desire is general among nearly all who use timber, that is, nearly the whole nation, the exception being confined to thuse who are interested in the Colonial trade. There are many persons who would break up the Colonal tintber trade altogether, and say it would be beneficial to do so, as the Colonists neglect agriculture for the lumbering business; but we differ widely from these representations. Tunber is a natural product of the soil, and as proper a subject of trade as wheat or flour. And as to the neglect of agriculture, it is a mere delusion. The persons who are engaged in it do not of course attend much to agriculture, but what of that? They form a home market for farming produce; and if we had mincs or manufactures, would not the persons engaged in them attend to nothing else? and would not the produce of their labour be a proper subject of trade, and they themselves the best custumer to the farm-
er? The fact is, that we should encourage this home demand for farmmg produce, for whether it arise from manufacturing timber, or manufacturing cloth, or iron, or any other thing, it is an addtional source of public and private wealth which no sane man would throw away. There is just as much reason for working a forest of unber, as there is for working a mine of gold,--the former wiu!' buy the latter. Some persons have left agricult re for lumbering who would have done better had tiney stuck to their farms, but this is an evil which corrects itself. Men naturally turn to that kind of employment which promses most profit, only they sometines muss thar calculations, but this is the case in every country, and is by no means peculiar to Canada or lumbering. The timber trade is as legitimate a trade in Canada as mining or weaving is in Great Brituin; and if the British public decide that the protection hitheito extended to it is excessive, is too great a sacrifice on their part, and must be reduced, we do not doubt but the Colonies will push their trade into other channels. We should prefer it remaining as it is; but the people of England have to take care of their own interests, and may consider that if it comes to the worst we have always land to apply to for a means of subsistence, whereas they are so crowded that noman can shift his pusition or change his occupation for life.

## LAKEST. PETER.

The Canadian public are gen :ally aware that Lake St. Peter is too shallow to admit large merchant vessels to pass between Quebec and Monireal, and those vessels of lighter draught that do ascend to Monireal, tometimes ground in the Lake, ard are subject to grea: expense in lighterage in consequence. Hence a plan for dre'ging a deeper channel through the Lake has been often agitated, and it has been secently revived, which bas led to the following report on the subject.

In this report the committee differ from Capt. Bayfield's opinion on the question; but it appears to us that they beg the point at issue between him and them. They ascribe what they term his "error" to a "confounding the deposite at mouths of rivers, with the possibilities of deposit in the bed." Captain Bayfield knew well the difference between a Lake and the mouth of a river, so that the Committee's supposition is trifing. And on the other hand, although the question relates solely to a Lake,
they drav all their arguments from rivers, thus falling into the very "error" which they ascribe to him.

The true question to be decided is this: Is there a sufficient current in this shallow part of Lake St. Peter to keep open a ship chamel supposing it to be made? The committee a-sume that there is; but Captain Bayfield assumes that there is not. He evidently considers the whole of this part of the Lake as being slack water, and that deposits are made in the present channel as well as in other parts of the Lake. The committec acknowledge that the "velocity in the Lake is less the 1 in the river above and below," but still all their observations assume, that there is a considerable currunt all through the Lake. It is so long since we were on Lake St. Peter that we hive almo $t$ forgotten its precise character, but our impression is events, this is Captain Bayfield's supposition, that it is a dead level, without any perceptible current except where the river enters and where it leaves the Lake. At all and he must know the Lake well. If this supposition be correct, then, although the Loke may be deepened, it will require the constant action of a dredging machine through every season to keep he bannel cle $r$, and the exnense must be taken into account in making the calculation.

We have not made these remarks for the purpose of throwing any obstruction in the way of deepening the Lake, but in order to call the attention of those intcrested to the point at issue, that every question connected with the proposed public improvement may be satisfactorily cleared up before proceeding to action in the case. It will be necessary, then, before submittmg the plan to the Legisla ure, to ascertain by actunl survey what curreni, if any, there is in this shallow part of Lake Si. Peter, what is its rate per hour. It is possible, that if the deepened channel did require an annual dredging, the improvement would still be profitable when compared with present expenses and delay, but the true state of affairs should be well understood at the buginning.

But however favourable the report may be, this is not an improvement that is to talic precedence of all others, as some of its supporters warmly imagine! It would benefit the City of Montreal, no doubt; but to the rest of the propince it would be almost immaterial, because
there is a good navigation at present, and it matters but little to the upper parts of the province whether Montreal or Quebec be their shipping port. Seceral harges with up-country prodire went cirect from Kingsion to Quebec lat year, and there discharged their eargoes, and took in their lading of upward freight, and it is probable that this plan will be extensively aloptel. If it should become general, the deciening of Lake St. Peter will be a matte: of but little consequence to the country in gencral. Be this as it mar, the at:empt to evalt this improvinent above every other is such an orerdoine as may prove to be an undoing, by raising a prejudice against the work altugether in all o her parts of the country, thus blocking up the way instead of opening it for unted action on the subject.

With these remarks we now present the following

> REPORT

Of the sub-Conrnittce of the Board of Trade, appuinted to enquire into the practicability of decpening Lake St. Peter.
The undersigned, appointed by the Board of Trade a commi.tee to wait on Mr. Hall, the Collecior of Customs, to examine Captain Bayfieldis report, and for other objects connected with the enquiry as to the practicability ot Lake St. Peter beng made of sufficient depth of water, at the season of the jear when the water is lowest, to admit vessels drawing 16 feet, beg to report as follows:

That pursuant to their instructions, they waited on Mr. Hall, and examined at his office a chart of the Lake, drawn up by Mr. Thompson, which chart was made from a survey made by Mr. Thompson under the orders of the Commissioners appointed to procure such survesand said chart boing complete in every respect giving the depth of water all over the Lake, your committee though: the same amply sufficient for every purpose. Your comimittee also examined Mr. Thompsor: as to the nature of the soll at the bottom of the Lake, and as to the practicability of decpening it. Mr. Thompson stated ihat the botiom (as far as he could tell from puiting posts down) consisted of tenacious blue clay, with a very light covcring of sand, without siones, and that almost the oniy obstacle to the dredring out a channel through the same, would be the oak timber lying at the bottom; but this, when found out, could be shewn to persons willing to remove it free of cost;that, in his opinion, the channel, when once decpened, would not fill up, if made where the present line of deepened water rums, on account of the strong current; the present light coating of sand, an meh or two only, shews little danger on that score. Indeed there is more proba-
bility of the current wraring it ilepper, than of ats becoming more shallow, is the wetion of the current is to fill up the bade at the sides with debris, and to make the channd teypry the same as appears to have h:ippened in many parts of the valley of the St. Lavrence.
Mr. Thompson also calculuted the expense of dredging the work, the only morle in his opinion, that cxists, that would give permanent satisfaction,-he estimated it at about fi2n,000 at the utmost, and that with extraordanery exertions the dredging woald he done in one season, but at all event:, with anything like good management, in two.

Your committee also perused the extract:s from the Journal.s of the Ilvise of Assembly of Lower Canadn, relating to the decpenng of the Lake, and the petition:; heretulure made to that body from the merchants of Montreal, the evidence being therein green of certan masters of schoonere, whose opmun is, generally speaking, against the permanency of anf dredgma; but as these persons not only lintier between thenselves, but also from all other surve:s or cxaminations of the soil of the bottom of the Lake, it may be presumed that their evidence is but little worth.

The evidence also of a plot stating the hoitom to be rocky, may be thrown asde for sumlar reasons.

The report of Mr. Thomas Portcous and others, who were willing to contract to deepen the Lake for the sum of $£ 2 \mathrm{se}, 000$, and to heep the channel open for three scars, an.l wiu caused the bed of the propused channel to be pierced with angers at various depths, $=0$ as to draw up portions of the soil,-and which sonl was pubmitted to Colonel Br, of the Roral Engincers, who pronomuced it to be of such tenccity, that when once dredged out there would be no danger whatever of the channel beng again filled up, -seens to your commattce to deserve great attention and to be very conclusive.

Your Committec also perused Captain Barfield's report, which, torethce with his cxami:ation before the Ilone of A scmbly, soc: against the practacablity of ceppening the Lake, in consequence, as your comintice consider, of erroneous reasoming. Cait. Baytield states the bottom to be cloy 1 ith at stratum of sand upon it; he states the lisaids of the Iake to be also blue clay, and that in digering wells in the neighbourhood of the Lake, the strata ree, first of sand, and then the same lind of clay. Captain Bayficld argues from thrse fact.s that this clay is an alluvial deposit, and that the same operation is going on in thic Lakc, $i$ iz: the formation of shoals and ultimatcly island in the slack ucater. Now, it appcars, to your committec to be cxactly the reverec as regards the main current. The blue clay is the original bed, covered probably with sand like the resi of'
the minh bourhood, wheh sand in the centre of the riser has been washed away by the current, excepting only the very conrsest particles now on the 'up, of the clay-that the very formation of shouls in slack urifer proves that the current in the centre has a tendency to becone deeper in lien of filling up,-tine natural tendency of all rivers being to confine themselves more and inore, unless in passing through high banks.The sreater part of the valley of the St. Lawrence appear:3 formerty to have been one Lake, which by shoals formmg in slack water, and the current wearing a deeper and decper bed $m$ the centre, eventually made the Lake into a River, huving low flat lands at its sides. Rivers, when they first were formed from springs and waters from the lands, ran, doubtles:, over a large extent of surfice,-were, in liet, all lahes; but in time the beds were formed by the rapidty of the streams wherever the accidental depth cansed a greater current than cl.cwherc. Siuch beds became deeper and decper, their debris filled up the shallower parts, and in time the Lake became a River.

In fict, it appears to your committec, that there is little fear of a lake filling up, (when the current is stroner,) in the deepest channel, eopectally it that channel is made deeper artific allly; its tendence, your committee imagine, is to become deeper still from the natural causes.
Water, it is w cll known, will hold many heavg matters, a; sand or clay, in suspension, in proportion to the selocity of the current. In the deremet part ot a runsiug stream, where the cursent I strunere:t, these matters are held in suipension, but such proportions as come over shallower portions at the sides, deposit a part of these suspended matters, - the channel becomes decper, the shoals shallower,-all that is proposed by dredsing is to assist nature in this important work; were the soil anything but blue tenac sus clay, the bed had been washed deep long since. Eren limestone would have been carried away sooner than the clay, which will remain for ages before natural causes can remove it. At the same time, this clay is, of all matters, the casiest to remore by dredging, at its culde; do not cave in, and the machine can be worked without fear of breaking.

Part of the crror arises probably from conCounding the deposits at mouths of rivers, with the possabilitics of deposit in the bed. The current of a river, owing to its velocity, holding in suspension heavy particles of soil, meets at its inouth another stream at right angles, or otherwise not in the direction of its current, the velocity is retarded from the impinging of one current on the other, and a deposit takes place. In the main current of a river this cannot be the case-quite the reverse.

It is achnowledged cerianly, that, as owing to the expanse of water in Lake St. Peter, the
relocity is less than in the river above or below, a deposit will and must take place, but such deposit will be chiefly in slack water, and will be immediately taken up again or washed from the bed on such shoals, so that the deposits will xemain only for a short period of time.

With respect to the necessity of deepening the channel in Lake St. Peter, your committee scarcely think there can be any difference of opinion on the subject. From a document giving the names and particulars of seven ordinary sized vessels, viz: from 259 to 365 tons, old measurement, consigned to Messrs. Millar, Edmonstone \& Allan, it appears the total expenses on such vessels amounted to $£ 1594$ 11s. $1 \mathrm{~d} .$, ,-on deducting the towage up, which probably, even if the Lake were deepened, would have to be incurred $£ 1059$ 2s. 7d, of which the lighterage alone cost $£ 83015 \mathrm{~s}$. 10d. -of thirteen vessels consigned to Messrs. Gillespie, Moffatt, Jamieson \& Co., or rather voyages of vessels, the expense was

$$
\begin{array}{lrrrr}
\text { Total. . . . . . . . . . . . . } & £ 1916 & 8 & 9 \\
\text { Without towage up . } & 1146 & 13 & 5 \\
\text { Lighterage only ..... } & 842 & 4 & 2
\end{array}
$$

this including both spring and fall voyages, in the former case the expenses being small.

Such an enormous outlay would justify a considerable expenditure; indeed the extra expense of lighterage last year, owing to the shallowness of the Lake, has been estimated at $£ 20000$, and this year will probably be much more,-a sum sufficient to permanently render the channel sufficiently deep for the ordinary sized vessels.

Indeed, your committee think, that were the channcl rendered 17 feet deep, that many of the seeking ships would come to Montreal for mixed cargoes; that is, flour, ashes, or other goods, in part, and fill up with deals or lumber; a fair share of the lumber trade indeed might be calculated on, as lumber could be furnished much cheaper than at Quebec.

Your committee refer to Mr. Thompson's explanations of his views, copies of which are annexed hereunto, thinking them tolerably correct in the main, and shewing in a strong light the importance of the work, and also its practicability, in his opinion.

In conclusion, your committee would urge that a petition should be presented to His Excallency the Governor General, praying that he would cause enquiry to be made into the matter, and to give permission for a bill to carry out the object to be brought forward at the next sitting of the Legislature.

As to the mode of reimbursing the amount raised, your committee think a tonnage duty on shipe coming through the Lake, would not
only defray the interest, butform a sinking fund to eventually pay off the principal.

All which is nevertheless humbly submitted.
J. T. Brondgeest.

Thomas Cringan.
Montreal, 20th April, 1841.

## Remarks on deepening a Channel in Lake St. Peter to the depth of 16 feet, for the safe passage of loaded vessels, by dredging.

In the uncertainty of what power may be employed, it appears necessary to adopt a given power, acting in a given time, on a given space, as a means of comparison, with whatever power may be brought into operation. Let the steam dredging machine be said to be of 16 horse power, capable of working to the depth of 16 feet deep, clearing and bringing up 25 tons of mud, sand, gravel, \&c. per hour: equal to 300 tons per 12 hours, or 600 tons in 24 hours. In Lake St. Peter, the water flows over a surface of blue clay, of considerable tepacity, the resistance of which is equal to weight. This blue clay in weight will be 18 cubic feet to the ton of $\mathscr{2} 240 \mathrm{lbs}$. avoirdupois. For a given quantity, let it be one mile in length, by 50 feet in breadth, and one foot in depth, this quantity is equal to 264,000 cubic feet. Allowing the dredging machine in Lake St. Peter to be in operation on the 12th May, and continue to the 19th November, not counting Sundays, and allowing 17 days for bad weather, accidents, \&c., there will remain 140 working days. Hence the data are, one dredging machine of 16 hores power, raising 25 tons weight of clay, sand, gravel, \&ra per hour, equal to 600 tons per 24 hours; the clay, \&c. at 18 cubic feet per ton weight; the open season at 140 working days, and the space of quantity as a means of comparison, 1 milo in length, by 50 feet in breadth, and 1 foot in depth, equal to 264,000 cubic feet, equal to 1488 tons weight.

As the open season is short, the dredging machine must work with two sets of men, at 24 hours per day, raising in each 24 hours, 000 tons of clay, \&-. The machine working at this rate will clear and deliver 14,667 tons in 242 days, leing one mile in length, by 50 feet in breadth, and one foot in dep:h. Hence, in 140 working daya, the machine will excavate and clear a space of $57-10$ miles in length, by 50 feet in breadth, and one foot in depth; and two such machines will double this work, giving the same length and depth, but 100 feet in breaith, or the same length and breadth by two feet in depth. That is, one dredging machine of 16 horse power, working 140 days, at 600 tons per day, will excavate and deliver 84,000 tons weight, equal to $1,512,000$ cubic feet in one season; and two such machines will clear

3,024,000 feet in the same time. Every ycar may be said to add to the power of working machinery. In a late paper from Limerick, in Ireland, is noticed two powerful :tenm dredging machucs one of which on timl, in 20 mmuter, excacated 38 tons of lard cliy, mixed with gravel, which is 114 tons per hour, equal to 970 en tons per 24 hours, or one day; wheh is equal to the work of $1 \frac{1}{2}$ dredging machines, each of 16 hore power, of the present construction.Allowing the Irish drediging machine to work at only 90 tons per hour, instead of 114 tons, this power will give $\$ 160$ tons per s .4 hours, clearing each day a space of 38,000 cubic feet: and in one scason of 140 working days, excavating 309,400 tons, und clearmg a space of $5,443,200$ cubic feet; equal to 5 miles in length, by 100 feet in breacth, and $\subseteq$ feet in depth. It is of importance to the merchants of Montreal to ascerain, what is the power, the construction, and cost of this dredging machine, neatly brinmered, but not polishod, which last is a great additional expence.

By measur: nent on the chart of my trigonometrical survey and soundings of Litie St. Peter, in the months of August, Sepiember, and October, 1833, and '39, by these soundings, the quantity required to be excavated to form a channel of 16 feet in depth; by 100 feet in breadth, is $8,509,000$ cubic feet, which with two dredging machines of 16 horse power each, will excavate and clear in three scasonf, leav$5 S$ days for one dredging machine to work elsewhere, at the total expense of $£ 3$. 00. Suy the three seasons will cost $\$ 40,000$, the annual interest of which sum is foldoo, at 6 per cent. At present there may arrive at Montreal about 140 ships at most; it is allowed by the merchants that, if Lake St. Peter was deepened, at least 500 sail of ships, with full cargoes, would come to Montreal, even in the present state of the trade. A daty of only $£(0$ on cach ship, will produce a sum of $£ 0000$, thereby paying the interest of £ 2400 , and leaving£ 3600 annualIy to pay up the capital of $£ 40,000$; and as the number of ships increase, the revenue will augment, and enable a powerful dredging machine to be constantly employed in keeping the channel clear and deep.

At present, from the shallownessof Lake St. Peter, the ships for Montreal are obluged to break bulk at Quebec, and incur heavy expenses, and from Montreal to Qucbec, to descend with only part of their loading; the loss of time and expense attendant on this state of commerce, is now averarged at $£ 40,000$ annually, giving to each ship the average charge of expense of about $£ 530$, which would willingly be exohanged for a duty of $£ \preceq 0$, and if levied on
cach passage over the lake, would raise a rerenue of twice $£ 6000$, annually increasing with the trede of the country.

Estimate of tice first season of two Dredging Muchines, carh of 16 horse power, to deepen a channel in Lakc St. Peicr: to the depth of 16 fcet.

To the cost of two dredging machines,each of i6 horse power, each in a well constructed vesscl, ready to work, ench of neatly hummered iron, not polished, at £6000 each machine, vessel, \&ic.......................f12000 0
To six lighters, ench of 50 tons, at $£ 150$ each................. $900 \quad 0 \quad 0$
'l'o ten cords of' wood per day each mactine, or twenty cords per day for both, at 5s. per cord, 140 dajs...............

70000
To contingencles, \&c.......... $450 \quad 0 \quad 0$
f.14050 $0 \quad 0$

To one superintendant......... $450 \quad 0 \quad 0$
To two engineers, each $£ 150 \ldots \quad 300 \quad 0 \quad 0$
To six men each vessel, 12 men
at tis 10s. per month, for six
monthy .......................
25000
To fivemen to each lighter, at
£3 10s. six monhs.......... $650 \quad 0 \quad 0$
One set at twelve hours per day $£ 1632 \quad 0 \quad 0$

PROVISIONS.
To 45 persons at 1s. 3 d per day, for six months, say fs per day............................. $540 \quad 0 \quad 0$
Pots, ketules, \&c. freight \&c... $20 \quad 0 \quad 0$
Provisions for one set for 10
hours.......................... £560 0

Total expenditure of the first year,
To cost of dredging machines, lighte s, fuel, \&c.............. 14050

00
Of Ous set of perbons, £163ロー2
sets for 94 hours............. 396400
Provisions for do. $£ 560$-do do $1120 \quad 0 \quad 0$
To contingencies................. 191600
Total................... $20000 \quad 0$

Erreise of the second ycar.

| To interest at six per cent on |  |  |  |
| :---: | :---: | :---: | :---: |
| Repairs of machines, vessels, |  |  |  |
|  | 500 |  |  |
| The employment of 90 persons |  |  |  |
|  | 3204 |  | 0 |
| The cost of | 700 |  | 0 |
| Ditts of provisions, | 1190 |  |  |
| To contingencies | 510 |  | 0 |
| Total cost of the second season $\mathcal{£} 7300$ |  |  |  |
| Expense of the third ycar. |  |  |  |
| To the interest of $£ 27,300$ at six per cent $\qquad$ |  |  |  |
| Repairs of vessels, machines, lighters, \& c. . . . . . . . . . . . . . . |  |  |  |
| The employment of 0 persons, as the first year |  |  |  |
| The cost of fuel | 120 | 0 | 0 |
| To contingencies | 478 | 0 | 0 |
| otal expense of the third year |  |  |  |

Irence the first year, $£ 20,000$; the second year, £j800; the third ycar, £7700,-total $\mathfrak{£} 35,000$; extra contingencics, f.5000, making the gross total $\mathbf{f 4 0 , 0 0 0}$, being barely the sum of the annual expense, charges, \&cc. on tho present commerce of Montreal for one ycar, on account of the shallowness of Lake St. Peter.
If one powerful steam drelging machine similar to the two now employed at Ballynagher in Ireland, was brought into operation on Lake St. Peter, it would be deepened to the above extent in less than two seasons, and the expense lessened by at least one-fifth of the present estimate. But if two such steam dredging machines were brought into operation, (the space of $£ \leqslant, 502,000$ cubic feet, the quantity required to be removed) they would accomplish the abore work in five months of the first scason, at probably a cost of not more than $\mathfrak{£} 30,000$, and the second scason would produce a revenue on ships passing the Lake with full cargoes.

David Thompsor.

## PRESERVATIVEFORTIMBER.

We publishod an article in the March number of the Review, on the Kganizing process for preserving timber. The following letter which was aduressed to the Montreal Herald, refers to that process, and mentions a recent discorery which appears to be preferable. With respect to the objections here urged aganst Kyan's process, we do not think them of much weight, because the plan has been extensively adopted, and these supposed ceils of it would have been manifest before now had they existed. Facts could have been appealed to, instead of urging mere suppositions, had there been any facts to adduce against it. But if Sir William Burnet's plan be cheaper, and a beiter preservative than Kyan's, of course it deserves the preference, and we therefore publish it here, as we have no other object in view than the public good. We wish the writer had mentioned any experiments to which Burnct's plan may heve been submitted, as nothing of the kind has yet reached us, and without experiments no discovery of the kind can establish its merits.

Has timber thus prepared been tried in the Woolwich fungus pit for five or six years?The following letter is barren of all explanation, but as it promises fair we present it to the public:-
"The attention of the Canadian public has been forcibly called to the subject of the prescrvation of timber by Mr. Kyan's process just at the time when a new method has been announced in England, which is both safer, 1 , ore effectual, and more economical. Mr. Kyan's mode was adopted throughout Eurupe with rapidity, and the atiention of many chemists was drawn to its probable influence on the public health. Dr. Schweig of Carlsruhe has just published a brochure in which he maintains that. the subject calls for the carnest attention of government, and adduces various solid reasons.

1st-From the ready absorption of the solution (of Corrosive Sublimate) through the akin the workmen are exposed to much danger in the mere manipulation.
"He gives various precautions to be taken to diminish the danger.
ad-As a matter of medical police, it is proper to enquire whether under certain circumstances mercury may not be volatilized from wood, thus prepared, and produce its usual dangerous effect, upon those exposed to the vapour.
"The occurrence of prejudicial effects from this cause has been denied, because the crews of vessels built of Kyanized timber have returned healthy, after long voyages, even in tropical latitudes. Experience may not have hitherto shown that dangerous consequences have followed; but further trials are wanting to establish this point satisfactorily.
"Sd-It need hardly be said that wood thus imprernated with corrosive sublimate is wholly unfitted for the making of vessels to hold articles of food or drink cither for the use of man or beast.
"4th- $A$ fourth and very important consideration is, that Kyanized wood when used up cannot be safely emplosed for fuel like ordinary wood; the mercury contained in old wood might thus be volatilized and spread in vapour through the house, leading to the slow destruction of life by protracted illness. It could only be safely burnt in close stoves or vessels where there is a free current of air to carry off the mercurial vapour."
"The chips or cutiings of wood of this description, might unknowingly be employed as fuel by labourers and others engaged in working the timber.
"Dr. Schweig says, that an equal substitute may be found in the sulphate of copper (blue vitriol). Copper not being volatilizable by heat is safer in that respect, but wood so prepared is equally unfitted for domestic utensils as when Kyanized. In truth, blue vitriol is not as good a preservative as Corrosive Sublimate.
"Sir William Burnet has discovered that Chloride of Zine is greatly superior to both in the preservation of woul, and still more so in the prescrvation of sailcloth and cordage. I
believe he has sec: red a patent for this discovery, and that it is deservedly in England superseding the more dangerous and expensire process of Mr. Kyan.
"I have been induced to present SirWilliam Burnet's process to the attention of the public, as in every way more advantageous to the manufacturer and consumer, and as the lives and heelth of thousands of minviduals would be endangered by the extensive adoption of Mr. Kjan's plan."

In connexion with this plan for preserving timber from rot, we have met with anotner for preserving it from fire. Mr. Montgomery, of Point Frederick, near Kingston, professes to have discovered a liquid mixture that will protect wood from fire, and has made asatisfactory experiment of its virtues. A small model of a house, made of dry pine boards, was washed over with the liquid, and then in presence of about fifty persons it was submitted to the action of fire for nearly an hour, without being ignited. It was then broken up by the spectators. The liquid when applied is absorbed by the wood, and the heat draws it to the surface, on which it forms a solid crust that resists fire. The wood may be charred a little, but does not blaze or become a live coal. Further experiments are contemplated, and if they be equally satisfactory the discovery is a valuable one, as the article is cheap, costing only about 5s. per gallon. Whether exposure to the weather would destroy its protecting power is yet to be determined, as also what effect a coat of paint would have; but if the compaition preserves from fire, it will be valuable though it should have to be applied every year. In this country of wooden buildings, a matter that will preserve them from the frequent ravages of fire will be a public benefit.

## IILEGREEN-WOODSIRIFT.

[The following is versified from an anecdnte of Genrge ]II., inserted from a publication of the Rev. Mr Cabbe's, ia tho Church of England Magazine.]

Outstretched beneuth the leafy shate Of Windior Forest's deepest glade A dying woman lay;
Three little children round her stood, And there went up from the green wood A woful wail that day:
"O mother!" was the mingled cry;
"O mother, mother! do not die And leave us oll alone."
" My blessed babes!" she tried to say,
But the faint accents died awny
In a low subbing moan.

And then life struggled hard with death, And fast and strong ahe drow her breath, And up she rnised her hoad;
And piercing through tho deep wood mazo
With a long, sharp, unearthly gaze, "Will ho not como," sho said.

Just then, tho parting boughs between,
A little maid's light form was seen
All breathless with her epeed;
And following close, a man came on, (A portly man to look upon.)

Who led is panting steed.
" Mother!" the littlo maiden cried,
Or e'er she reached the woman's sido
And kissed her clay cold cheek,
"I have not idled in the town,
But long went wandering up and down
Tho minister to seek.
"They told me here-they told me there:
I think they mocked mo every where; And when I found his home,
And begg'd him on my bended knee,
Tu bring his book and como with me,
Mother! he would not come.
"I told him how you dying lny
And could not go in peace away Without the minister.
I begg'd him for dear Christ, his sake,
But oh! my heart was fit to break.-Mother! ho would not stir.
" So, though my tears were blinding mo,
I ran back, fast as fast could be, To como again to you;
And here close by, this Squire I met, Who asked (so mild) what made me fret ;

And when I told him true,
"I will go with you, child," he said,
'God sends mo to this dying bed,'
Mother, he's here hard by."
While thus the little maiden spoke,
The man his back against an oak,
Look'd on with glistening eye.
The bridle on his neck flung free, With quivering flank and trembling knee, leessed close his bonny bay;
Astatelier man-a statelier steed,
Nover on greensward paced, I redo,
Than those stood there that day.

So whilo the litto maiden spoke,
Tho man, his back agamst an oak, Looked on with glistening eyo Anl folded arms; and in his look, Sumething that, like n sermon book, Preachel--" All is vanity."

But when the dying woman's face
Turned towards him with a wishful gaze,
Ho stepyed to whero she lay,
And kneeling down, bent over her,
Saying-"I am a minister--
My sister! let us pray:"
And well withous, or book or stole, (God's words wero printed on his soul,) Into the dying ear
He breath'd, as 'twere an angel's strain,
Tho things that unto life portain, And death's dark shadows clear.

He spoke of sinners' lost estate,
In Christ renewed-rerenerate...
Of God's most blewsed decree,
That not a single soul should die
Who turns repentant with the cry
"Be merciful to me!"
He spoke of trouble, pain, and toil, Endured but for a little whilo

In patience, fuith, and love, Sure, in God's own good time, to bo Exchanged for an Eternity

Of happiness above.
Then, as the spirit eblid away, He rised his hands and eyes, to pray That peaceful it might pass ;
And then--the orphans' sobs alono Were heard, as they knelt every ono Close round on the green grass.

Such was the sight their wondring eyes
Beheld, in heart-struck, mute surphise,
Who reined their coursers back,
Just as they found the long astray, Who in the heat of clase that day Had wanderd from their track.

Back each man reind his pawing steed, And lighted down, as if agreed,

In silence at his side ; And there, uncovered all they stood--
It was a wholesome sight and good
That day for mortal pride.

For of the noblest of the land
Vas that deep-hushed bare-headed band;
And central in the ring,
By that dead pauper on the grourd,
Her ragsed orphans clinging round,
Kinelt their anointed King.

## THEKENTELECTION.

So much gross inisrepresentation has been circulated respecting the laic election for the County of Kent, that we are induced to advert to the subject in order to lay before the public the real merits of the casc. It is not merely the Kent Election that is concerned, but if the delusive statements which have been put forth respecting it bo allowed to pass without contradiction, they will have an influence onfuture elections, and the province will be involved in contention and cost on points which could never be disputed if ordinary honesty and intelligence prevailed. It is therefore necessary to check the factious presumption which, to gratify its personal malevolence or public hostility, misrepresents the simplest ficts and plainest question that could engnge general consideration. If the sciolists who have muttered their accustomed quantity of ill-considered nonsense on this subject find that they have prepared a rod for their own back; they must submit to punishment with the best grace they can, fur they have prusuked it. They "know a little, presume a great deal, and so jump to a conclusion;" and therefore they reed not be surprised to find that they sometimes jump into a quicksct hedge, or iupale themselves on the horns of a dilemma, or plunge into the whirlpool of palpable contradictions, or fly off in a tangent from the rerions of common sense intu the limbo of chavtic aburtions, there to make sport fur the jeering anurch old.

The facts of the Kent election are briefly these. The Candidates were Joseph Woou's, Esq., and the Mun. S. B. Irarisun; and the Sheriff of the District was the Returning Officer. At the close of the poll on Saturday night, Mr. Woods had a majority of 43 , but a scrutiny was demanded by Mr Harrison's friends, on the ground that illegal votes had been taken for Mr. Woods. This gentleman refused to go into a scrutiny. The Sherifi adjourned until Monday, but Mr. Woods still refused. To give them further time for consideration the Sherif adjuurned agan unts Thursday, when Mr. Woods continued to refuse going into a scrutiny, and the Sheriff made a special return to the writ, setting forth the facts.

The questions that arise here then are-Kiad the Sheriff a rught to grant a scruting? and when one party refused to go into it, was it right to make a special return? Both tneso questions have been denied, but we affirm them both. The Sheriff had not only a perfect right to grant a scrutiny; but we believe that ho would have been justifiable in going into it, notwithstanding Mr. Wood's refusal to concur thercin, letting judgment go by default,--for there is at least one precedent for this in English elections, in which the Sheriff granted a scrutiny against the consent of one of the Candidetes, and no complaint was made on that ground; but as this point does not arise now we need not examine it. $\Lambda$ all events, the Shcriff has not injured Mr. Woods by making a special returr, for if he had had a majority of legal votes the scrutiny would have declared it, and the refusal to concur in a scrutiny was tantaluuunt to a confession that he had not such a majurity. IIe and his friends say, it is true, that they refused going into a scruting with such a blassed judge; but they have produced no evidence to prove that the Sheriff was biassed against Mr. Wnods,-the admission of illegal votes in his favour proves that he was not. But if he had been so biassed, they were there to protect their own rights, and if they bad seen them invaded they had always a remedy by a prutest and petitiun argainst the return; so tiat they have made out no case whatever for refusing to go into the scrutiny; while the refusal makes a strong case against them. But now for the question of right.

Premising that our elections are governed by the English election laws, except as may be otherwise provided, we make the following extracts from Heywood on County Elections, page 629.
"After the case of Ashby and White, and the resolutions of the Hor'se of Commons, had encouraged returning officers in the assumption of a judicial character, we find some cases in suppurt of the legality of a scrutiny; such are those of Southwark, 7th February, 1711; Oxfordshire, 18th November, 1754; Westminster, in 1750, and in 1784; and Sudbury, in 1780:all of which will be stated hereafter, The 11th Geo. chap. 18, enacts that, at the elections of
membets for tho City of London, if, after the declaration of the numbers at the poll, a scrutiny shall "be lawfully demanded," it shall be granted. So that it takes for granted, that a scrutiny may be lawful in itself, and may be lawfully demanded. The late act of the $95 t h$ Geo. III. chap. 84, has removed all doubts upon this subject, and not only empowered returning officers in general to grant a scruting, but regulates the mode of prucecding at at, as will be seen presently."
"In the case of Guilford just cited, the returning officer had proceeded to the scrutiny without the consent of one of the candidates, but the circuinstances of the case rendered it unnecessary to make any objection on that account. At the close of the serenteenth century, and the beginning of the last, the legality of a scrutiny, and the power of the returning officer to grant it, do not seem to have been in dispute. This perhaps may have been owing to its never having been granted against the consent of the candudates, where it became materiel for them to contest it. On the other hand, many instances, about that time, are found in the journals of the returning officer having refused a scrutiny; and many petitions allege such refusal as a ground of complaint agaunst hum, or for unpeachiner the election of the sit.ing member. Hence it shuuld seem that it was by no means settled, that the only abject of a scruting was to satisfy the conscience of the returning officer as to the legality of the votes he had received upon the poll, or that he had a discretionary power to refuse it, contrary to the wishes buth of canddates and voters."
"The 2 bth Geo. III., c. 84, s. 1, by which the clections of all countiex and places, not under the regulation of any particular acts of parliament, are to be conducted, expressly makes it discretionary in the Sheriff to grant or refuse a scruting; for the poll being closed, and the name or names of the person or persons who have the majority of votes being declared, the returning officer or officers must "forthwith make a return of such person or persons, unless the returning officer or officers, upon a scrutiny being demanded by any candidate, or any two or more electors, shall deem it necessary to grant the same, in which case it shall and may be lawful for him so to do, and to proceed thereupon."
"A modern scrutiny is onlg a continuation of the poll; it is a severance of the judicial capacity, which of late has been exercised by returning officers, from the ministerial. Conformably to the modern practise, it may be argued that the returning officer ough: to ad-
mit no persons to poll until he has decided upon their right to vote; and every voto that is found upon the poll must, as against him, be presumed to be a good one, because, if it was not, it ought not to have been found there. A scrutiny therefore, it may be said, ought never to be granted (we are not now considering what may be done with consent of the candidates and roters,) except where, from subseyuent infurmation, it is discosered that invaisd botes have been admitted; and even then it may be doubled whether it ought to extend to all the voters indiscriminately, or be confined to those only which are suspected."

Enough as to the right of a returning officer to grant a scruting. The only wonder is how it could ever have been denied in the face of an act of parlament expressly granting that rught, and prescribing the mode of its exercise. The only limitation to the right is, that the scruting should not be continued longer than the time fur returning the writ-that is, by the Provincial Act, id William IV., c. 12, sec. 3, (1833) withn ten days after the close of the election.

Haring thus disposed of the question as it rclates to the scruting, we now take up the special return, on which we make the following extract from Male on the law of elections, page ©9.
"Thus the writ requires the Sherifi to return two members duly chosen. But where the returning officer of a city or borough has made no return to the precept, or in cases of double returns, or of mistaken returns, or where the clection cannot be determined by the tame the return is required to be made, the Sheriff does not literally comply with the writ; for though he ought to make some return, yet it is evident in all these cases, he dues not return two members duly chosen; for the returns supposed are a confession, either that no choice, or a doubtful one has been made; and in the third case, the return itself, as far as it pretends to be of members duly chosen, is disproved by the judgrant of the lluuse, by placing oihers in their stead; and to zay, notwithstanding the cases put, or which may be put, that the letter of the writ shall be complied with, would, in some cases, be to compel a man to do an impossibility. Upon this reasoning, therefore, the Sheriff, being under the necessity of making some relurn upun a general writ by the day mentioned thercin, supposing him gulty of no neglect, would stand excused, if upon such a writ he were to make a special return; and if such special return were true, it must, both upon principle and precedent, be a legal return."

Thus, in the cases put, or "which may be put," if the Sheriff make a special return, und that special return be true, "it musl, Loth upon prinsiple and precedent, be a legral return." In the case in question the Sherili could make no other return than a special one, unless he had gone into the scruting without Mr. Woods' consent, which we think he had a perfect right to do.But having waived this, he could not returnMr. Woods as being "duly chosen," for that was as doubtful as ever, d was flatly denied by the opposite party. He had an apparent inajority, but it was asserted to be fictitious, and therefore of no value; and as he refused to have the question decided in the proper manner by a scrutiny, this refusal increasing the conviction of the fictitious nature of his votes, he could not be returned as a meniber duly chosen. "A modern scrutiny is only a contunustion of the poll," says Heywood, and until it was brought to a close the Sheriff could not make a decision. His special return is not only legal, but the only one he or any other man could make under the circumstances. If Mr. Woods have a legal majority, it is his own fault that he is not legally returned as member. It is not many men that, when the Sheriff had granted a scrutiny, would have refused to go into it; thereby furnishing a presumption against themselves.

The unscrupulous partizans who have so far misrepresented this affair may now understand that all their denunciations recoll on themselves. They have threatened to arraign the Sheriff for high crimes and misdemcanours, and bid him surely expect a committal to gaol for his presumption in daring to act according to law, against the will of the empty babblers whe would rule the province by the force of nonsense and audacity; but they will find, that instead of soaring like cagles with lightning vengeance in their grasp, they must flee to the murky shade, and hoot over ther rumed hopes with other patriotic owls. It is doubtless a grievance that the law should interfere between them and their revenge, but they have proved that they are not fitted for empire, although they are very desirous of ruling the prownce according to their own despotic will, despots under the mask of libcrty.

The course that has been taken in this business would have been incredible if wo had not known how far party spirit usurps dominion over party men. It would appear as if the
claims of .rty were considered paramount over every of er, and that fucts are regarded merely as they affect the party, illustrating the truth of the witty peer's definition of orthodoxy when he sutid: "Orihodosy, my Lord, is my doxy; heterodony is your Lordship's doxy." And this party spirit clams all right and good for itself, and fulminates its anathemas against all who question its decisions, or duffer from its prescribed routıne. These threatening alarms are merely empty sound, but the whole system of party tactics has a deeply injurious effect on the public welfare. On this point we quote the following remarks from Lord Brougham on the effects of party:
"But let us, even in our pride of enlightened wisdom, pause for a moment to reflect on this most anomalous state of things,-this arrangement of political affairs systematically excludes one half of the great men of each age from their country's service, and devotes both classes infinitely more to maintaining a conflict with one another than to furthering the general good. And here it may be admitted at once that nothing can be less correct than their view, who regard the administration of affairs as practically in the hands of only onehalf of the nation, whilst the excluded portion is solely occupied in thwarting their proceedings. The influence of both parties is exerted, and the movement of the state machine partahes of both the forces impressed upon it; neither taking the direction of the one nor of the other, but a third line between both. This concession, no doubt, greatly lessens the evil; but is very far indeed from removing it. Why must there always be this exclusion, and this conflict? D.es not every one immediately perceive how it must prove detrimental to the public service in the great majority of cases: and how miserable a makeshift for something better and more rational it is, even where it does more good than harm.Besides, if it requires a constant and systematic opposition to prevent mischic!, and keep the machine of state in the right path, of what use is our boasted representative government, wheh is designed to give the people a control over their rulers, and serve no other purpose at all? Let us for a moment consider the origin of this system of parts, that we may the better be able to appreciate its value and to comprehend its working.
"The orimin of party may be traced by fond theorists and sanguine votaries of the system, to a radical uifference of opinion and principle; to the "idem sertire de repullica" which has at all times marslialled men in combinations $o$ o split them in oppositions; but it is pretty plain to any person of ordinery understanding, that a far less romantic ground of union and separation has for the most part
existed-the individual interests of the partics: the "idem velle atque idem nolle"; the desire of power and plunder, whech, as all cannot share, each is desirous of snatching und holdang. The history of English party is as certainly ilat of a few great men and powerfil tamilies on the one hand, contending for place and power, wath a few others on the opposite quarter, as it is the history of the Plantagencts, the Tudors, and the Stuarts. There is nothing more untrue than to represent principle as at the bottom of it; interest is at the bottom, and the opposition of primelple is subservient to the opposition of interest. Accordngly, the reault has been, that unless perhaps where a dynasty was changed, as in 1630, and fur sume tune afterward;, and excepting on questions connected with this change, the very same conduct was held and the same promelples profesed by both parties when in office, and by both when in opposition. Of this we have scen suticuently remarkable instances in the cuurse of the foregoing pages."

Examples are then given, and Lord Brougham proceeds to argue from them as follows:
"It cannot surcls in these circumstances be deemed extraordinary that plain men, unmatiated in the aristocratic mysteries whereof a ryid devotion to party forms one of the most sacred, should be apt tu see a very dificrent connexion between principle and faction from the one usually put forward, and that withut at all densing the relation between the two thing:, they should reverse the account generally given by party men, and suspect them of taking up principles in order to marshal themselves in allances and hostilities for their own minerests, insteal of engaging in these sontests because of their conflicting principles. In a word, there seems some resson to suppose that interest having really divided them into bands, principles are professed for the purpose of better compassing their objects by maintaining a character and gaining the support of the people.

The evils which flow from this manner of conducting public affairs are manifest. The two greatest unquestionabiy are, first, the loss of so many able men to the scrvice of the country, as well as the devotion of almost the whole powers of all leading men to party contests, and the direction of a portion of those men to obstructing the public service instead of helping it; and next, the sport which, in playing the party game, is made of the most sacred principles, the duping of the people, and the assumption of their aristocratic leaders to dictate their opinions to them. It is a sorry account of any political machine that it is so constructed as only to be kept in order by the loss of power and the conflict of forces which the first of these fuults implies. It is a clumsy and
unwieldy movement which can only be effected by the combined operation of jarring principles, wheh the paneryrists or rather the apologists of these anomalies have commended. But it is a radical vice in any system to exclude the people from forming their own opmons, wheh mast, if proceeding from their own mpulses, be kept in stret accordance with their interests, thit is with the general good; and it is a flaw if posible still more disisitrous, to render the peuple tools and instruments of an oligarchy, in teal of making their power the manspring of the whole engine, and the grand object of all its operations.
"Of this we may be well assured, that as party has hitherto been known anong us, it can only be borne during the carler stuge of a nation's political :"ruth. While the people are ignorant of their interest:, and as litile acquanted with their rights as with ther duties, ihng maty bo treated by the laading factions as they have hitherto been treated by our own."

Every man who is not incurably infected with the hungry, wolfish spirit of party, will admit the disadvantages of excluding from the public service one half of the very men who are most competent to perform it. The usual resource of partizans when pressed on the point, is to say they have "no confidence" in these men. But this outburst of cant is a mere subtrrfuge; for what does it mean? that they have "no confidence" in ther ability or mtegrity? No; but that they may not advise such measures as are pleasing to these partizans. Now, not to observe that mere advice harms no one, -that it is the province of others to decide after hearing all judvice,-and that in a multitude of counsellors there is safety; the reply proceeds on the false assumption, that these public servants are at liberty to form their own plans, and pursue their own policy; whereas the true doctrine is, that it is the people who should originate them,ind when they are properly instructed they will do so; for as LordBrougham remarks, the system of party rule is only adapted to the carliest stages of a nation's growth. It goveins by a party, and for a party, and makes the people mere tools for the advancement of party leaders. On this plan their advice results in immediate action, and the people are drilled to lend it their tacit approval; but if a higher standard were raised the people would guide the state, instead of being merely a kind of check on those who do guide it. Some discretionary action must be allowed in minor matters, but all great principles and measures should originate with the people, and everyman
who is capable and willing to execute their will should be eligible to the work, instead ol beng rigidly e.celuded therefrom by the shrivelled-up selfishness of intolerant party spirit,ruling solely for its own advantage to the people's injury. As the political clucation of the people becomes complete, there will be less or none of that infirm vacillation of purpose which forms such a convenient refuge for party selfishnesss. Great principles will be steadily maintained, and officinl functions become more mimsterial, so that government will receive the full benefit of its popular orgunization, and be freed from the incubus of blind party craft, without being resolved into a democracy. Mere pariy is as intolerant as mere despotism, and pursues the same ends by other means. Its name and badge must be assumed, its hery worn, its mandates obeyed to the letter, its whole servile spint anbibed, and its example copred in all its grovelling details, or the decree of banishment is enforeed with all the rigour of an oriental tyrant. The true spirit of liberty wall overturn thas odsous despotism, and while steadsly pursuing its own lofty designs will throw open its portals to all who are willing to enter thercin. The spirit of liberty will chase the spirit of monopoly, and a political monopoly is not the least odious or objectionable.

A mixed government requires a controlling mind, as well as fixed principles for its general guidance. The people should furnish the latter: the former is the province of the Executive. Where both are found the government best fulfils its design by being open to erery competent man who wiil enforce those principles. The great fallacy of party arguments and assertions is, the assumption that public servants are to form the character of the goremment, instead of to receive the character impressed by the people; or, in other words, that they are to do their own will, instead of the will of those whose serrants they are. Let it once be generally understood that public officers are but ministers of the public will; and let the people express that will in wisdom, with consistency, firmness, and moderation; and then political employments will be as open for competition as any other employments, and the public will be faithfully served as a necessary consequence. If it be said that some competent men wonld still be cxcluded from office by
not agrecing with the genera! will, and therefore there would be but little difference; we reply that there would be this difference, that no man would be rendered incompetent for office by any act of the government, but by the cast of his own character, in fact a disqualification; and that if there were no difference at all, but precisely the same persons were ineligible in one case as in the other, still this is a far husi offensive way of stating the fact, and is therefore much less likely to create enmity, bitterness, hostile parties, "envy, hatred, and all uncharitableness." By the approved rules of party tactics, an opponent is rudely told that he is not fit for office, accompanied with many sharp denunciations of his peculiar principles; but on the opposite plan, he is left to infer the fact of his being ineligible for office, if it be a fact, by a due consideraiton of its declared duties compared with his own character. Thus, in this case, the exclusion is a natural effect, with which no one can quarrel; but in the other case it is a voluntary act, so performed as to provoke a quarrel. Hence, if the result was in every case the same, the means ioy which it is attained are so widely different as to produce an instantancous preference of one over the other in all well constituted minds. But it is not to be supposed that the result would be in every case the same, far from it. Eistablish the govermment on fixed principles, in accordance with the general will and interest, and render its offices accessible to every man who is able and willing to fill them, and the public mind and interest will be more frequently consulted, instead of the interests of party; public men will take a broader view of public matters; party barriers will be broken down, and party hostulities cease; the most expansive plans will be adopted for the public service, and the strength of general union will mightily advance the common prosperity. This is not mere speculation. It is but a literal transcript of what has been. Lord Chatham's administration was formed upon this plan, and before its close there was hardly any difference of party in England. All had united in the country's service, and party stnfe was extinct. And there is not only nothing to prevent such a consummation here, but much to promote it if the people take a comprehensive view of their own interest. The public welfare is one and indivisbles,
aud it will prosper just in proportion as party strife and hot-headed partizans are discountenanced by those who have to bear the brunt and
burden of all, and who will find that party triumpl is not synunymous with the public good.

## THEINDIAN NATIONS.

The condition and prospects of the Indians within the province, is a subject of considerable interest both to the statesman and the philanthropist. No plan of general improvement can be complete unless it include the means ol elevating the aboriginal tribes to an equality with their white brethren in condition and character. If the scaitered remains of the once proud and mighty possessors of the whole land are allowed to continue in a state of degradation or ruinous decay, a mountain of reproach will rest on those who have supplanted them as lords of the soil, without imparting any equivalent therefor, supplanting only to destroy, instead of to civilize and save. That the demon of destruction has generally marched in the white man's track through the vast forests of the west, is but two well known: get this is not a necessary consequence of his presence, or superior civilization would be but a superiority in evil rather than good, a curse rather than a blessing. There must be some redeeming principle in the white man's superiority, some power operating with him sufficient to stay the iron tread of remorseless destiny, and enable him to impart his knowledge to barbarous nations, without communicatipg death therewith. The dark shadows that have fallen on the red men's path, the bitter tempests that have hurtled over their heads, uprooting the forests on their wigwems while they slept, crushing in a moment the pride and fizength of nations, until not one remains of many hosts of eagle-plumed warriors, have been spised by a corrupt and mercenary spirit, caredess of the ravages that it occasioned if its dark xdesigas bucceeded. A more equitable spirit nasw prevails. It is seen to be neither wisenor juat to. allow in the midst of us another race to manain parmanently inferior, in burden and mis-
cry to themselves, and a barrier to the general progress of the whole community.

The Indians at present are in an anomalous condition. They are among us, yet not of us. They are subject to our laws, yet they do not enjoy our privileges, and the laws give them only an imperfect protection. This was clearly seen at the late Assizes for Niagara, in the case described in the following account taken from the Niagara Chronicle of the 20th April.
"On T'ucsday an interesting case was before the Court. An Indian woman was arraigned for having killed her husband, at Cayuga, on the Grand River, by a blow with an iron bar on the left temple, of which blow he died the same day it was inflicted. She was first indicted for murder, but the Grand Jury returned a bill for manslaughter only. The Solicitor general in stating the case, observed tbat it arose from the lamentable use of ardent spirits, the manslaugher having occurred during an affray produced by the intoxication of the parties. The interpreter having been sworn, and the indictment explained by him to the prisoner, she stated she did not know any thing of what had occurred, and the Ceurt directed a plea of Not Guilty to be entered. The first witness called was the prisoner's daughter Polly-a good looking Indian girl, about 18 years of age, in full costume wearing a massive silver necklace and ear-rings, her dress handsomely braided with beads, and covered with numerous silver stars. Mr. McDonald, for the prisoner, rose and requested that the witness might be examined as to her knowledge of the nature of an oath. The interpreter, who seemed a very intelligent man, questioned the witness, and explained as the result that her tribe (Senecas) were heathens; they, however, beleve that when they de the good go to a good place, and that it is notright to tell a lie; but they never swear, and have no form of eath. On being interiogated if they had no trials amongst themselves, and if no forms were in such cases used with witnesses,
he stated, that in olden times when any wrong was done, the accused persons were tried before the oged chiefs, and the witnesses sumply told what had taken place. Mr. McDonald then submitted that it was imposssible for such entdence to go to a jury, as, there being no form of swearing, and no form for binding consecences, no indictment for perjury could he. The Court called for the next withess, who was a younger sister of $t$ ie last withess, and sle mude sumilar answers to the questions put to her through the interpreter. The Solicitor Gencral having no further witnesses to produce, the Chief Justice after having werghed the case, concurredinMr. McDonald's views, and quoted an mstance where the testimony of an intellygent quaker in England, who had separated himself from the Society, but objected to taking an oath, was refused; and observed that it was still more necessary to refuse testimony where the partics were unfortunately heathens. The prisoner was then discharged.
"'The result in the above case suggests the enquiry, how is justice administered anlong the Indians? We presume that our laws will not permit them to act according to their peculiar customs in matters of life and death, and yet we have no laws adapted to do that for them which we refuse them permission to do for themselves, provided they are not converted to christianity. At present it seems one Indian murdering another would escape punishment altogether, provided the crime could not be established by other than Indian testimuny. This is a state of things loudly calling fur a remedy, for having the tribes nominally subjected to the operation of our laws, it reflects shame on our legislation that the statute book contains nothing adapted to their peculiar circumstances." And another case lappened at the late $\Lambda$ ssizes at Woodstock, for the Brock District. $\Lambda$ white man was arraigned for a rape on an Indan women, and though the crime was fully proved against him, the Jury returned a verdict of not guilty! Here, however, the fault was not in the law, but in the Jury; yet the effect is the same to the Indian.
Good care is now taken of the Indians' property in lands, but in former years it was bartered away for mere trifles. The township of Woolwich, contaning upwards of 86,000 acres, was äcquired by one person; the township of Dumfries, containing upwards of 34,000 acres, by another; the township of Nicholl, containing 28,500 acres, by another; the township of Waterloo, containing upwards of 94,000 acres, by another, a block of 50,800 acres, by another, and a block of 19,000 acres by two other persons, making 359,300 acres acquired by seven persons from the Indians. What the consider-
ation was does not appear, but it was doubtless very trilling in every rase. The Indians still hold about 700,000 acres among the sarveged lands of the province. The territory of the Six Nations on the Grand River oriminally contained upwards of 674,000 acres of land, among the finest in quality and best siturted of any in the province. They have stlll left cbout $\mathbf{2 0 0 , 0 0 0}$ acres. Besides which they have money invested in the British funds to the amount of $£ 95$,733; also bonds and other provincial securities bearing interest, to the amount of $\mathcal{E 7 6 2 9}$ 10s.; and the three-fourths of the Grand River Navigation Stock, on which has been paid the sum of $\mathcal{L}_{19} 9,198$, but this is 5 e: unproductive.Some other bodies of Indians have also money invested in Government Debentures. And the annual parliamentary grant ( $£ 13,330$ sterling) is distributed among the Indians in presents and otherwise, so that means are provided for their comfort and improvement which would be found sufficient for all that is required, if they were brought generally to cultivate their lands, instcad of depending so much on fishing and hunting, especially as game is much less abundant with them than it has been, and can no longer be relied on as a. principal source of subsistence. The Indians are now in a transition state, nether hunters nor agriculturists, except in a few cases, but their lands would amply provide for all their wants, if duly cultivated, and prove a fixed and ever-growing source of plenty, which, with the grants and other aids in moner, would render them permánently prosperous. Great improvement has, however, been effected, especially the last three years, and by perseverance there is no doubt that the Indians will be raised to a full participation of all the benefits within their reach.

The number of Indians who are under the carc of the British Government, receiving annual presents, may be about 11,000 , of whom about 7000 reside within the settled limits of the Colony. The following return made to Lord Durham's Commissioners on Land and Emigration, shows their relatire numbers and distribution. There has been rery little change among them since then; but last year, a body of Indians, amounting to from 1000 to 1200 in number,came into the province from the United Strites, and we hear that four or five hund red more are coming this year. Those who
came last year bought land on which to settle, and are well advanced in civilization. With this addition the following return is correct enough at the present tume:-

1. Number of Indsans within the coluny?

It is impossible to answer thas question correctly. 'The bands of Indiuns inhabing the country north of Lakes Huron and Superior are numerous.

The resident Indians within the province are as follows:-The Chippewas of the St. Clair Rapids, Chevall Ecarte, River Nux Sables,number, 911.

The llurons of Amherstburgh; the Chippewas of Amherstburgh; the Shawanees of Ainherstburg; the Muasees of Amherstburgh,number, 197.

The Chippewas of Delaware; the Munsees of Delaware; the Moravians of Delaware,762.

The Six Nations, 2149.
The Mississagas of Rıver Credit, 940 .
The Mississagas of Rice Lake, 185.
The Mississagas of Mud Lake, 159.
The Mohawks of the Bay of Quinte, 337.
The Mississaras of Grape Island, 214 .
The Chippewas of Cold Water and the Narrows, 496.

The Chippewas of Manitoulen Island, Lake Huron, 184.

The Ottawas of Manitoulen Island, Lake Huron, 80.

The Chippewas of La Cloch and Mississaging, 295.
The Chippewas of St. Joseph, 90.
The Chippewas of St. Mary's, 99.
The Chippewas betwcen Manatouwanning and Penctanguishene.

The Chippewas of Lake Nippising, 59.
The Pottawatamies of Sanging, 938.
The Chippewas of Sanging, 152.
The Chippewas of Michipicoton, 57.
Besides these, there are of Pottawatamies, Chippewas, Ottawas and Minonumes, from 1800 to 2000 , who chiefly reside on the shores of Lake Michigan, and on the south shores of Lake Superior, but who nevertheless consider themselves as owing allegrance to the Britusin Crown.
2. The quantity of land which they hold.

The Upper St. Clair Indian reserve contains about 3000 acres. The lower rescrve extends one mile in front on the River St. Clair, and about four miles in depth. There are several islands which the Indians cla!m, which may contain about 5000 acres.

The Reserves at the River aux Sables contain about 5000 acres.

The Huron reserve negr Amherstburgh, extends six mules along the River Detroit, and is seven miles in depth.

Point Pele contains about 3500 acres.
The Chippewas of the Ruer Thames have nbout 14,000 acres in the township of Carraduc.

The Moravians of Delaware occupy a tract of about 26,000 acres in the townikip of Zone, and 25,155 acres in the township of Oxford.

The Six Nations had origirally six miles on cither side of the Grand River, from the mouth to the source of the river. They have still left about $\mathbf{\Omega 0 0 , 0 0 0}$ acres.

The Mississagas of the River Credit have rather more than 3000 acres near to the mouth of the river.

The Mississagas of Rice and Mud Lakes, including the Alnwick settlers, about 6,000 acres.

The Mohawhs of the Bay of Quinte, about 58,000 acres.

The Chippewas of Lakes Huron and Simcoe, restding at the Narrows and Coldwater, until very lately possessed a tract of about 8000 acres. They have recently surrendered it to Government, for the purpose of being sold.

They are now in treaty for the purchase of about 1000 acres on the east side of Lake Simcoc, where they propose crecting a viblage.

The Great Manatouwanning island, which is especially reserved for the use of all Indians who may be disposed to settle upon it, contains from 800,000 to $1,000,000$ of acres.

The tribes at La Cloch, Mississayng, and those tribes residing to the north of Lakes Hu ron and Superior, consider the vast extent of country which they occupy as hunting grounds belonging to them.

The Pottawatamies, and Chippewas of Sunging, on the south shore of Lake Huron, claim the peninsula north of Cwen's Sound to Cabot's IIcad.
3. The manner in which their lands have been acquired: whether by grant from Government, or by beng permitted to retain part of their original possessions?

The Six Nations Indiane, including the Mohawks of the Bay of Quinte, hold their reserves by grant from the Crown. The territory was purchased of the Mississagas tor the express purpose of being given to those tribes, as a reward for their fidelity and services during the old American war.

The most of the land occupied by Indians in ether parts of the province are special reserves in their original possessions, made by them-
selves when they sold the adjucent lands to Government.

There are, however, some few tracts in the Newcastle District which have been reserved by Government for the uee of the Mississaga Indians, and some which have been purchased by the Indians themselves: viz: at the Rice and Mud Lakes, and at Balsam Lakes.
4. The manner in which the land is held, whether by individuals or the tribe?

The Indians in all cases hold their lands in joint tenancy, to them and their posterity.
5. Whether they are permitted to sell it, and npon what terms?

They are not permitted to sell, lease, or in any other manner dispose of their lands, but
with the consent and concurrenco of Government.

Should they do so, the land thus sold, or otherwise disposed of, reverts to the Crown. See Royal Proclamation, dated St. Jamos's, 1768.

The Great Manatourvanning Island, mentioned in the preceding extract, is supposed by many persons to be rocky and barren, a kind of Siberia; but we understand that the rocky part does not extend more than half a mile from the shore. $A$ large part of the island has a rick soil of the finest b...ik earth, covered with majestic forests, and very fine wheat, Indian corn, barley, and potatoes, were raised by the Indians at that station last year.

The following table sheurs what Lands were ceded by the Indians to the Government, for solick they reccive yjearlypayments of $£ 5405$.



These annuities are charged upon the casual and territorial revenue They were at first, and for a long period, paid to the Indions at an appointed time and place, cither in money or in goods at stated prices. This plan was, however, found objectionable, as it cnabled the improvident Indians to spend their money cr barter their goods for liquor, as long as they had
any thing left with which to procure it. A large portion of the annuities is now employed in building them comfurtable houses, clearing lands, purchasing horses, cattle, farming implements, seed corn, provisions, \&c. This change of system was at first disliked by the Indians, but they are now convinced that it is the most beneficial for their interests.

The following table s'eevs the Lands that were cedcd by the Indians for specific consideratione,
but for which no annuities arepayaole.

FAMES OF TBIBES.
Chippewas ofLakesHuron\& Simcoe
130. of Chenal Ecarte and St. Clair

Mississaugas of the River Credit.. Chippewas of Lake IKuron......... Ottawas, Chippewas and Wyandots Mississaugas of Lake Ontario ..... Mississaugas of Kingston and Bay of Quinte......................... Chippewas andOttawas of Saugeeng

NO. OF ACRES, COASIDERATION.
278,000

280,000
5,450
100,000
1,073
§50,880
428
1,500,000


His Excellency Sir George Arthur appointed a Commission to enquire into the condition of the Indians, and what lands or annuities th... 5 possesss, and the management of the Indian department. "From the very extensive and complicated nature of the first branch of this inquiry, and the remoteness of the sources of information upon which alone the Commissioners could form accurate opinions," they deferred a reporl.on it until theinformation could be collected, and confined themselves to the second branch of inquiry, the Indian department. On this their report trents largely, pointing out its defective organization in past years, through which they "have to lament the injudicious disposal of much valuable property, and the disappearance of unaccounted funds." "Vast sums which from time to time have been realized from sales of blocks of their lands (especially reserved for the use of them and their posterity) instead of being invested in conformity to the trust, and the interest only paid over to the claimants, have, on the contrary, been from time to time divided and distributed among them, and are consequently lost to those for whose benefit and udvantage they should have been safely invested, and inviolably preserved."

The report enters minutely into the various changes that are requisite to render the Indian department thoroughly efficient, as it respects the disposal of Indian lands, the removal of squatters from those lands, the distribution of the annual presents, the promution of civilization among the Indans, the internal arrangements of the office, and in general crery thing connected with Indian affairs.

The following extract from the conclusion of the report will show the nature of the improvements suggested.

Your committee will now, as conciecly as possible, recapitulate the subjects of their consideration; the defects in the constitution and operation of the department, which appear to them to require attention and improvement; and respectfully make such suggestions as in their opinion will effect such improvement.

First-With regard to the system of paying the annuities, your committec are not prepared to recommend any change at present. They are of opinion that the mode described by Mr. Jarvis, of paying them in commodities, which are generally useful to the communities, and have a tendency to domesticate them, and promote the practise of agriculture, a mode happily as it appears, originating in the good sense of
the Indians themselves, ought to be continucd.

The changes recommended by your committee under wher heads will, they trust, have the eflect of renderng such system still more agrecable and beneficial to the Indians.

Sccondly.- $A$ s to the mode of tuking care of the Indians' lands, and whether great alterations and improvements might not be effected, much to the advantage of the Indians, your committec have already, in the body of their report, entered at great length into this perplexing subject, and are strongly impressed with the opinion, that so entire a change not only in the preservation, but in the appropriation of the wild lands, must be effected before any matcrial improvement in the social condition of the Indians can be hoped for, (schemes in relation to which, your committee will submit in their report upon the best means of ameliorating their condition generally,) that they for the present avoid recommending any partial alterations, and confine themselves to the protection of their property, against the evils predicated in the

Third branch of this inquiry.-As to the course to be adopted with respect to Squatters upon Indians' lands. These may be divided into two classes.

First, of those who have taken illegal possession of the land, either under some pretended license from individual Indians, or without even such colour of title, for the purpose of farming alonc, and have cleared and cultivated and built upon the land.

Secondly. Such whose illegal possession is accompanicd by circ limstances of a stall more ohjectinnahle nature,-such as cutting and plundering the valuable timber-keepinghouses for the sale of sprituous liquors, and otherwise dissemunating the vices into whech the Indians so casily fall, and which are the real source of much of their destitution.

The first class by the valuable improvements upon and attached to the lands, have given a sort of eecurity for their ultimately making to the Indians full compensation for their temporary usurpation, and their cases may for the present bo postponed, and taken into consideration in connection with the scheme above alluded to.

There were numerous instances of such upon the lands surrendered to the Crown, and conveyed and sold for the Indians' benefit; thess lots were valued with the improvements, and the intruders had the privilege of pre-emption at the price fixed by the Government. If abandoned, they were of course, with their increased value, put up to public competition. This rule might be beneficially followed again, whether the lands be leased or sold.

The second class of squatters your committee conceive to be entitled to ru consideration, but that the commissioners appointed under the act for the protection of Indian reserves, ought to be instructed promptly to enforce the law against them.

The great difficulty hitherto felt in getting rid of those trespassers was, that after the forms of the law had been carefully fullowed, and the intruder ejected by the Sheriff, a few weeks, or even days only, would elapse before he wus back, and as completely in possession as ever. This fact (as the chairman of this committee is aware) occurred repeatedly upon the Indian reserves in Tyendinaro, where valuable locations, on the great Eastern Road, were for many years maintained, with so successful a pertinacity, as almost to draw contempt upon the admmistration of the law. But the act in question having provided a summary penalty for resuming possession after being duly removed, it is hoped that its powers will be found sufficiently efficacious for the purposes contemplated.

It may be proper here to notice, in reference to Mr. Sullivan's recommendation, that his Deputies should be appointed Commessioners under the Act, that the Chini Superintendent, and Deputy Indian Supermtendents, are already appointed, especially with a view to the Indian interests; but that as the statute extends to all the Crown lands generally, whoever are commissioned for their general protection would of course have jurisdiction over the Indian reserves, and might, whenever necessary,be ading and assisting in the correction and prevention of the abuses thereon, which the legislature desired to remedy.

Fourth.-As to the alterations which may be beneficially introduced in the mode of proceeding now adopted, as regards the annual Presents.

If the course of conducting the business by means of the Commissariat is to be perpetuated, your committee can do hittle more than to suggest that such changes in the nature of the Presents should from time to time be made, as from the personal knowledge of the Chief Superintendent shall be desirable to the ecveral tribes, in relation to their becoming, more or less, a domesticated or agricultural people.

Mir. Jarvis already recommends the substitution, or rather addition of shoes and trowsers, as desired by the Indians. Even thoir adoption of this more convenient and comfortable form of dress, shews a prejudice got rid of, consequently a step gained.

Your committee are struck at the immense expense said to be incurred in the transport of these Presents, before they arrive at the different posts for distribution-an expense which, in many cases, is stated to be most dispropor-
tionably enhanced. This being, of course, paid out of the Parliamentary grant, must if true, seriously diminish the saine, and absorb an amount, which, if a better mode rould be devised, might be much more beneficially applied.

The incrense in the price of goods iniported by wholesale merchants, and sold by retal in the remotest settlements of the North orWest, bears no proportion to that which is alleged to be in effect the price of the artucles distributed to the Indians.
Upon reference to the Chief Superintendent, the committee have reason to doubt the accuracy of Mr. Blair's impressions upon this subject.
Upon the Fifth subject of inquiry-the present course of conducting the business of the Indian department, and whether beneficial alterations might not be made-your committee are convinced, that the present machnery of the office is totally inadequate to effect any good, according to the course even at present pursued, and will be still less adequate, if the clanges to be recommended by your cominittee be carried into effect.
With regard to the office of the Chief Superintendent, it is proposed to make such arrangements as will emable that netionary to attend more to the Statesman's duties of his office, the extensive nature of which, and its importance to the good government and prugressive civilization of the Indians, has been sirongly shewn, instead of confining him exclusively to those services which might be equally well performed by a clerk, and enable him accurately to know the real state of the Indians' funds, without waiting to be enlightened from another department, ard so to organize the office as to render it fit for the more efficient discharge of its more extended duties. The attention due to , the property and general interests of the Grand River Indians, until lately managed by Trustees, is in itself sufficient to occupy one man's time.
The necessary alterations in the management of the Indian Office are then enumerated, and appear to be well adapted to attain the desired end.

The following return shews the number of Indians within the limits of the United Statee, or on the western frontier. Since this return was made, about 30,000 more Indians have been :raoved from the cast to the west of the Mississippi, making the total number that have emigrated 81,289:-

Indian Statistics.-W. learn from official documents that the India: s now east of the Mississippi number 49,565 . Of these the fol-
lowing are under treaty stipulations to remove west of the Mississippi:-The Winnebagoes, 4500; Ottawas of Ohio, 100; Pottawatumies of Indiana, 2050; Chippewas, Ottawas, and Pottawatamies, 1500; Cherokees, 14,000;Creeks, 1000; Chickasaws, 1000; Scminoles, 5000; Apalachiolas, 400: Ottawas and Chippewas in the peninsula of Michigan, 6500 -total 36,950. Those not under treaty stipulations to remove amount to 10115, as follows:-New York Indians, 4176; Wyandote, 575; Miames, 1100; Menomonies,4000; Ottawas and Chippewas of the Lakes, 2504.

The number of Indians who have emigrated from the east to the west of the Mississipp is 51,327, viz: Chickasaws, 549; Chippewas, Ottawas and Pottawatamies, 9191 ; Choctaws, 15000; Quapaws,476; Creeks,476;Seminoles,407; Apalachicolas,965; (Therokees,7911; Kıckapoos, 588; Delawares, 326; Shawnees, 1279; Ottawas, 374; Weas, 292 ; Prankeshaws, 162 ; Peorias and Kaslaskias, 132; Pottawatames of Indiana, 53; Senecas, 251 ; Senecas and Shawnees, 211.

The number of the indigenous tribes within striking distance of the western frontier is $\mathbf{2 3 1}$ 806, viz: Sioux, 21,600; Iowas, 1500; Sacs, 4800; Foxes, 1600; Sacs of the Missouri, 500 ; Osages, 51s0; Kanzas, 1616: Omahas, 1600; Ottoes and Missourias, 1000; Pawnces, 19,500; Camanches, 19,200; Kioways, 1800; Mandans, 3200; Quapaws, 450; Minatarees, 2000 ; Pa gans, 30,000; Assinneboins, 15,000; Appaches, 20,980; Crees, 3000; Arrepahas, 3000; Gros Ventres, 16,800; Eutaws, 19,200; Crowz, 7200 ; Caddoes, 2000; Poncas, 300; Arickarees, 2 : 50 ; Cheyeunes, 3200; Blackfeet, $\mathbf{8 0 , 0 0 0}$.

The whole number of the Indians above enumerated is 339,498. Assuming that every fifth one may be considered a warrior, the number of their fighting men is $\mathbf{6 0 , 4 6 9}$.

In further illustration of the Indian character and traditions, we copy the following account from a letter of the American artist, Mr. George Catin, to a gentleman of New York. The letter is dated from the Red Pipe Stone, Coteau Du Prairic.

I wrote you a letter a few days since from this place, which, if it should have reached you, will have convinced you that I am in one of the most curious places on the continent. Curious for the traditions respecting it (some specimens of which will be given in the present epistle, and also for the exceedingly picturesque and romantic appearance of the place itself. I had long ago heard many thrilling descripions of this place given by the Indians, and had contracted the most impatient desire to visit it. It will be scen by some of the traditions inserted in this letter, from my notes taken on the Upper Missouri four years since, that those
tribes lave visted thes place freely in former times, and that it has once been held and owned in common, as neutral ground amongst the difcrent tribes who met at this place to renew their pipes, under some arrangement which staged the tomahawk of these natural foes, always raised in deadly hate and vengeance in other places. It will be seen also that within a few years past, (and that probably, by the instigation of the whites who have told them that by lieeping off other tribes, and manufacturing the pipes themselves, and trading them to other adjoming nations, they can acquire much influence and wealth,) the Sioux have laid entire claim to this quarry, and as it is in the centre of their country, and they are more powerful than any of the other tribes, they are able successfully to prevent any access to it. That this place should have been visited for centuries past by all the neighbouring tribes, who have hidden the war-club as they approached it, and stayed the cruclties of the scalping knife under the fear of the vengeance of the Great Spirit who overlooks it, will not seem strange or unnatural when their religion and superstitions are known. That such has been the case there is not a shodow of doubt, and that even so recently as to have been visited by hundreds and thousands of Indians of different tribes, now living, and from many of whom I have personally drawn the information, some of which will be set forth in the following traditions; and as an additional and still more conclusive evidence of the above position, here are to be seen, and will contınue to be seen for ages to come, the totems, or arms of the difierent tribes who have visited this place for ages past, and deeply engraved their heraldry on the rociza, where they are to be seen and recognized in a moment, and not to be denied by the passing traveller who has been among those tribes, and acquired even but a partial knowledge of them.

The thousands and tens of thousands of carvings and paintings on the rocks at this place,as well as the ancient diggings for the pipe stone, will afford amusement for the world who will visit it, without furnishing the least data of the time at which these excavations commenced, or of the time at which the Sioux assumed the exclusive right to it .

Among the many traditions which I have drawn personally from the different tribes, and which go to support the opinion above advanced, is the following one, which was related to me by a distinguished Knistineaux, on the Upper Missouri, four years since. After telling me that he had been to this place, and after describing it in all its features, he proceeded to say:
"That in the time of a great freshet, which took place many centuries ago, and destroyed all the nations of the earth, all the tribes of the red men assembled on the Coteau du Prairie to
get out of the way of the waters. After they had all gathered here from all part:, the water continued to rie unthat length it covered it in all in a mass, and their flesh was converted into red pipe stone. Therefore it has al wa; been considered neutra! groumb-it belon. dd to all tribes alike, and all were alluwed to get it ant smoke it together. While they were all drown-
 a virgin) caught hold of the foot of a sery large bird that was flying over, and was carried to the top of a very high cliff, not far off; that was above the water. Here she had twins, and their father was the War Eagle, and her children have since peopled the earth. The pipe stone, which is the flesh of their ancestors, is smoked by them as the symbol of peace, and the eagle's quill decorates the head of the brave."

## TRADITION OF THE SIOUX.

"Before the creation of man, the Great Spirt, (whoee tracks are yet to be icen on the stones at the Red Pipe, in form of the trachs of a large bird) used to stay and devour the buffalo on the top of the Coteau du Prairie, and their blood running into the ground turned the stones red. One day, when a large snake had crawled into the nest of the bird to eat his eggs, one of the eggs hatched out in a clap of thunder, and the Great Spirit catching hold of a piece of the pipe stone to throw at the snake, moulded it into a man. This man's feet grew fast in the ground where he etood for many ages, and therefore he grew very old; he was older than a hundred men at the present day; he bore a delicious fruit, some of which fell on the ground, and at last one of them grew up a tree, when a large snake ate them both ofi at the roots, and they wandered off together; from these have sprung all the people that now inhabit the earth. Aftei many ages, when all these tribes were at war, the Great Spirit sent runners and called them all together at the Red Pipe. He stood on the top of the rocks, and the red people were assembled on the plains below. He rook out of the rock a piece of the red stone and mode a large pipe; he smoked it over them all; told them it was part of their fiesh; that the red men were made fromit; that though they were at war, they must meet at this place as friends; that it belonged to them all; tha: they must make then calumets trom it and smoke them to him whenever they wished to appease him or get his good will,-the smoke from his bir pipe rolled over them all, and he disappeared in its cloud; at the last whiff of his pipe a blaze of fire rolled over the rocks and melted their sur-face-at that moment two squaws went in a blaze of fire under the two medicine-rocks, u here they remain to this day, and must be consulted and propitiated whencver the pipe stone is to be taken away."
'I'he following speech of a Manda:, which was made to me in tho Mandan village four years since, ufter I had painted his picture, I have copied from my note book as corroborative of the same facts:-

## 'My Brother:

' You have made my picture, and I like it much. My friends tell me they can see the cyes move, and it must be very good-it must be partly alive. I am glad it is done-though some of my people are afraid. I am a young man but my heart is strong, I have jumped on to the Manito rock-I nave placed my arrow on it and no Mandan cas take it away.* The red stonc is slippery, but my foot was true-it did not slip. My brother, this pipe which I give to youl, I brought from a high mountain, it is toward the rising sun,-many were tha pipes that we brought from there-and we brought them away in peace. We left our totems and our marks on the rocks-we cut them deep in the rocks, and they are there now.The Great Spirtt told all nations to meet there in peace, and all nations had the war club and the tomaliawk. The Sloux, who are our ensmies, are very strong-they hare taken up the tomahawk, and the blood of our warriors has run on the rock. My friend, we want to visit our medicines-our pipes are old and worn out. My friend, I wish you to speak to our Great Father about this.:'

Shon-di-ga-ka, chicf of the Puncahs, on the Upper Missouri, also made the lollowing allusion to this place, in a speech which he made to me on the occasion of presenting me a very handsome pipe about four years since:-

## 'My Frifnd:

- This pipe, which I wish you to accept, was dug from the ground, and cut and polished as you now sce it, by my hands. I wish you to keep it, and when you smoke through it, recollect that this red stone is a part of our fiesin. This is one of the last things we can ever give away. Our enemies the Sioux have raised the red flag of blood over the pipe stone quarry, and our

[^2]medicines there are trodden under foot by them. The Sioux are many, and we cannot go to the mountain of the Red Pipe. We have seen all nations smoking together at that place, -but, my brother, it is not so now-"
One of the old chiefs of the Sacs, on seeing some specimens of the stone which I had brought with me from that place, observed as follows:-
"My Friend:
"W hen I was young, I used to go with our young men to the mountain of the Red Pipe, and dig out pieces for our pipes. We do not go now; and our red pipes, as you see, are few. The Sioux have again spilt the blood of red men on that place, and the Great Spirit is offended. The white traders have told the Sioux to draw their bows upon us when we go there; and they have offered us many of the pipes for sale, but we do not want to smoke them, for we know that the Great Spirit is offended. My mark is on the rocks in many places, but I shall never see them again. They lie where the Great Spirit sees them, for his eye is over that place, and he sees every thing that is done there."

Ke-o-kuck, chief of the Sacs and Foxes, when I asked him whether he had ever been there, replied:-
"No, I have never seen it; it is in our enemies' country-I wish it was in ours--I would sell it to the whites for a great many boxes of money."

Such are a few of the traditions relating to this curious place, and many others might be givenwhich I have procured, though theyamount nearly to the same thing.

The position of the pipe stone quarry is in a direction nearly west from the Falls of St. Anthony, at a distance of two hundred and twenty or thirty miles. on the summit of the dividing ridge between the St. Peters and the Missouri rivers, being about equi-distant from either.This dividing ridge is denominated by the French the "Coteau du Prairie"" and the "Pipe Stone" is situated near its southern extremity, and consequently not exactly on its highest elevation, as its general course is north and south, and its southern extremity terminates in a gradual slope. Our approach to it was from the east, and the ascent, for the distance of thirty or forty miles, over a continued succession of slopes and terraces, rising one above another in singular regularity, that seemed almost to lift us into the clouds. The singular character of this majestic anomaly in nature is (from appearance, and from information we received, ) continued on the west side on its descent toward the Missouri. There is not a tree or bush to be seen from the highest summit of the ridge, though the eye may range east and west almost to a boundless extent, over a sur-
face covered with a short grass, that is green at one's feet, and about him, but changing to a blue in the distance, like nothing but the blue and vastness of the ocean.

The effect that will be wrought upon the minds of future travellers, who will wend their way over these gigantic pastures of green, (provided their imaginations are like my own, ) will be grand and thrilling in the extreme. $\mathrm{AB}_{\mathrm{B}}$ for myself, my feelings may have been over wrought, for they seemed to swell and enlarge at every swell and terrace that we mounted up, and when at the very summit, (where the meanest horse will neigh and gaze with admiration,) I must say that I felt as light as the air that was about me, and almost able to $f l y$ with a pair of wings no larger than those on Mercury's heels or Cupid's back.

The whole surface of this immense tract of country is hard and smooth, almost without stone or gravel, and coated with a green turf of grass of three or four inches only in height.Over this the wheels of a carriage would run as easily, for hundreds of miles, as they could on a macadamized road, and its graceful gradations would in all parts admit of a horse to gallop, with ease to himself and his rider.

The full extent and true character of these vast prairies are but imperfectly understood by the world yet, who will agree with me that they are a subject truly sublime for contemplation, when I assure them that a coach and six horses might be driven at full gallop and with perfect ease (with the exception of rivers and ravines) over unceasing fields of green, from the Falls of St. Anthony to Lord Selkirk's egtablishment, from that to the mouth of Yellow Stone-thence to the Platte-to the RedRiver and the Arkansas-from thence to Santa Fee, and through Texas to the Gulf of Mexico; a distance of more than 5000 miles, and that too all the way in United States territory.

But to return to the pipe stone quarry. The scenery alone of this place is a subject for admiration, as will be seen by the views which I shall bring home. A graphic description of its features and colours, and of the forms and ceremonies observed by the Indians preparatory to taking away the stone for their pipes, shall be the theme for a future epistle; and so for another, my theory of the geology and mineralogy of this region of country, which may differ materially from the theories that have heretofore been advanced to the world.
"Woman's limite" I shall also describe, and her training on this hallowed ground; her marks are set; she can toe them,but no farther. Woman is allowed to see, but not to touch with her foot, the sacred ground of the red pipe.

I mentioned in my former letter that we had been arrested and made prisoners by the Sioux,
on our approach to this place, and Iherein insort for your amusement and edification, the most important part of the speeches made, and talks held on that occasion. After these cop-per-visaged ndvocates of their country's rights had assombled about us, and filled up every avenue of the house, the grave council wa:3 opened in the following manner:-

Te-o-kun-kho, (the Swift Man,) rose and said-
"My friends, I am not a chief, lut the son of a chief; I am the son of my father, he is a chief-and when he is gone away, it is my duty to speak for him-he is not here, but what I say is the talk of his mouth. We have been told that you are going to the pipe stone quarry. We come now to ask for what purpose you nre going there?" 'How, how!' rociferated all of them, thercby approving what was said, giving nssent by the word how, which is their word for yes.
"Brothers-I am a brave, but not a chicf,my arrow stands in the top of the leaping rock; all can see it, and all know the Te-o-kun-kho's foot has been there." 'How, how!'
"Brothers-we look at you and we see that sou are Che-mo-ke-men-captans, (white men ofticers); we know that you have been sent by your people to see what that place is worth -and we think that the white people want to bay it.
"Brothers-We have seen always that the white people, when they see any thing in our country that they want, send officers to value it, and then if they can't buy it they will get it some other way." 'How, how!'
"Brothers-I speak strong, my heart is strong, and I speak fast; this red pipe was given to the red men by the Great Spirit-it is a part of our flesh, and therefore is a great medicine." 'How, how!'
"Dretheas-We know that the whites are like a great cloud that rises in the east and will cover the whole country. We know that they will have all our lands; but if ever they get our red pipe quarry they will have to pay very dear for it." 'How, how!'

Brothers-We know that no white man has gver been to the pipe stone quarry, and our chiefs have often decided in councll that no white man shall ever go to it." 'How, how!'
"Brothers-You have heard what I have to say, and you can go no farther; but you must turn about and go back.' 'How, how!'
"Brothers-You see that the sweat runs from my face, for I am troubled."

Then I commenced to reply in the following manner:-
"My friends, I am sorry that gou have mistaken us so much, and the object of our visit to this country. We are not officers-we aro not sent by any onc-we are two poor men travelhag to see the Sloux, and shake hands with then, and ece whit is curious or interesting in their country-this man who is win me is my friend, he is a Sa-ga-nosh, (an Englishman).' How, how!'
[All rising and shaking hands with him, and a number of them taking out and shewing British me lals, which seemed to have been secreted about them.]
"We save heard that the Red Pipe Quarry was a great curiosity, and we have started to go to it, and we will not be stopped."
[IIcre I was interrupted by Ma-con-che-tah, a grim and black-visaged fellow, who shook his long shaggy locks as he rose, and the very floor also as he trod upon it; with his sunken ejes fixed in direst hatred on me, and his fist brandished within an inch of my face.]
"Pale fuccs!-You cannot speak till we have all done; you are our prisoners; our young men (our soldiers) are nbout the house, and you must listen to what we hare to say-what has been said by you is true, you must go back."' How, how!'
"No white man has been to the red pipe, and none shall go." 'How!'
"You see," holding a red pipe by the side of his arm, "that this pipe is a part of our flesh. The red men were made from the red stone." 'How how!'
"If the white men tale away a piece of the red pipe stone, it is a hole made in our flesh, and the blood will always run. We cannot stop the blood from running. 'How, how!' The Great Spirit has told us that the red stone is only to be used for pipes, and through them we are to smoke to him. 'How:' Why do the white men want to get there? You have no good object in view: we know you have none, and the sooner you go back the better." 'How,' how.'

Muz-za (the Iron) spoke next.
"My friends, we do not wish to harm you; you have heard the words of our chief men, and you see that you must go back. 'How, how.' -Tchan-da-pah-sha Kah-free (the red pipe stone) was given to us by the Great Spirit, and no one need aek the price of it, for it is medicine." 'How, how.'
"My friends, I believe what-you have told us -I think that your intentions are good, but our chiefs have alvays told us that no white man was allowed to go there, and you cannot go." 'How, how.'
"The red pipe stono is a part of our flesh-it is red-if the white men go to it we are afraid it will turn white-they come among us, and our children aro turning white-there is plenty, of white clay-let the white men get that if they want pipes." 'IIow, how.'
"This is all I have to say."
Tc.co-van-de-chee-My friende, you see I ann a joung man-youl see on my war club tivo sculps from my nnemies' heads-miy hands have been dipped in blood, but I am a good man. I am a friend to the whites-to the traders-and they are your friends. I bring them 3000 musk rats every year, which I catch in my own traps. 'How, how.' We love to go to the Pipe Stone and get a piece for our pipes; but we ask the Great Spirit first. If the white men go to it they will take it out and not fill up the holes again, and the Great Spirit will be offended. 'How, how.' If the whites are allowed to go to it they will soon have a great mill, that will make pipes for all the people in the world. 'How.' Ihave been told that they put large logs of wood on a great wheel, and hundreds of bowls and ladles and spoons drop out under this wheel." 'How, how, eugh.'
" I wish you no harm, but I wish you would go out of this country-you cannot go any farther." 'How, how:'

Stun-ne-wus-see, My friends, listen to me, -what I am to say will be the truth. 'How:' I brought a large piece of the pipe stone and gave it to a white man to make a pipe; he was our trader, and I wished him to have a good pipe. The next time I went to his store I was uaihappy when I saw the stone made into a dish! cugh! This is the way the white men would use the red pipe stone, if they could get it.Such conduct would offend the Great Spirit, and make a red man's heart sick." 'How, how.'
"Brothers, we do not wish to harm you-if you turn about and go back, you will be well, both you and your horses-you cannot go forward. 'HI 'v, how.'
"We know that if you go to the pipe stone the Great Spirit looks upon you-the white people do not think of that. How, how.'

## "I have no more to say."

After some more specches had been made. Mr. Catlin made his reply, and then he and hia friend saddled their horses, and rode away to the pipe stone quarry.

## TORONTOHARBOUR.

This article was read as a lecture before the Toronto Mechanics' Institute by Mr. Thomas Roy, Civil Enginecr,and we preserve its original form.

The subject upon which we propose to engage your attention this evening is, "The Geological formation, and the existing phenomena of the Harbour of Toronto." This subject necessarily forms itself into two divisions. We shall begin with the first in the order of time, "The Geological formation."

Somewhat more than a year ago, I read a paper from this place upon the Geological formation of Upper Canada, and produced specimens of most of the rocks which constitute the formation of this portion of North America, and also a geological section, cxhibiting their
order of super-position. I then shewed and gave proofs that the valley and basin of Lako Ontario, is a valley of denudation, excavated out of various shales, and their interstratified sandstones, (as shewn on the section now exhibited.) Immediately upon the north shore of the Lake, at the City of Toronto, the Tertiary formations rest upon black bituminous shales, interstratified with calcareous sandstone; immediately above those bituminous shales, and resting upon them, are other dark shales, interstratified with hard silicious stone, scarcely at all efficrvescing with acids. Good sections of this formation are disclosed in the ra. vines of the FIumber and the Mimico rivers:Organic remains are abundant in both these formations, which identify them as belonginer
to the submedial era. Resting upon these dark shales, are red shales, and red sandstones. These are well disclosed about Oakville, and Wellington Square-or we may say, from the mouth of the Credit River sonthward to Burlington Bay. Then, resting upon these red shales, is that thick, dense, unstrutificd mass, which has been termed red marl, and which is well disclosed on the shores of the River from the town of Niagara to Queenston,and et many other places upon the south side of the Lake; there are but few organc remains in the red shales, and perhaps none in the red mar!. It is out of these black and red shales that the whole of the basin of Lake Ontario is excavated; for although at the eastern end the bottom is transition limestone, the excavating waters have not cut deep into it, but have rather cleared away the softer formations and left the surface of the rock bare.

Before proceeding further, it will be proper to draw your attention for a few minutes to the immense denudations which are found in so many parts of North America.
From the Rocky Mountains to near the east end of Lake Ontazio, the stratification is remarkably regular, and nearly horizontal, the dip being only from 20 to 30 feet a mile to the southward. There are a few places where the strata has becn slightly upheaved, and probably a few places where it has been depressed, but in general there can be no doubt that it rests,even now, just in the same position as when it was at first deposited. But it is far different indeed with the eastern parts of the continent. Nearly the whole of that range of mountains betweon the coast of New England and Lake Ontario, is of volcanic origin, and has again and again been rent and torn by awfully conflicting forces. Even the ralley of the St. Lawrence is a valley of depression; and the rock at the Falls of Niagara has evidently been acted upon by subterrancan heat, whilst under great pressurc. Thus, whilst the eastern parts of the continent have undergone so many changes by volcanic agency, the western parts have nearly escaped from the ravages of that power; but these western parts have been nearly as much changed by the action of water as the castern parts have been by the acti $n$ of reat. The basins of Lakes Superior, Huron, Michigan,St. Clair, Eric, and Ontario, are all valleys of denudation; so also are the Seneca, Cayuga, and
all the others of the small Lakes between the summit elevation of the land and LakeOntario. Many traces of this denuding power are also found in the Mississippi and the Missouri vallies, and in thut vast extent of country which is situated to the northward of the greatLakes. But as these last have not come under the observation, perhaps, of any one present, it will not be necessary to enter into farther details concerning them upon this occasion.

It is difficult to fix apon the precise geological era when these denuding waters passed over this continent, from the circumstance, that we have no formation in the great central ralley of North America, newer than the coal formation, except the tertiary; but even this circumstance furnishes us with important data concerning the denuding deluge, for it proves that these vast plains had emerged from the ocean about the ere of the coal formation, and had never again been under the waters of the ocean, except, when this denuding deluge passed and repassed over them. The whole of these denudations have been effected at an era subsequent to the era of the coal formation, and there is no proof to the contrary, but every probability is in favour of the position, that they were all effected by one and the same deluge. The course of this deluge has been from north and north west, to south ard south east, as is evidenced by the diluvial remains which mark the course of its ravages; for whilst the crest of its advancing waves, and the renction of its receding waves, had been producing those vast excavations above alluded to, the materials excavated; had been deposited by its eddying waters, and now form the diluvial masses, or the heights which skirt these excavations.~This is beautifully illustrated by the heights in the townships of Beverly, Dumfries, \&c. at the head of Lahe Ontario, which are elevated from 1100 to 1200 fect above the level of the sea.The upper portions of these heights are almost entirely formed of Detritus from the underlaying group of magnesian rocks, which have undergone such extrnsive denudation in the adjoining townships of Trafalgar, Nelson, Flamborough, \&c. The same phenomena are observable upon the heights which separate the waters that fall into the Lakes, from the head waters of the Susquehanah and the Allughany rivere, almost all of which are crested with detritus from the excaralions to the northward.

But the most remarkable phenomena which this deluge, and most probably the accompanying volcanic action upon the eastern shores of the continent had produced, were, that it left this great valley of North America so encircled by heights that it remained covered with water, and became a great inland sea, the surface clevation of which, in its carliest zondition, must have been about 1000 feet abuve the level of the ocean. That these inland waters were left by this denuding deluge is proved by this fact, that the tertiary clays, and other formations, which were no doubt deposited by the inland waters, rest immediately and conformably upon the denuded strata.

About two years ago, I read a paper from this place, upon the former extent, and the successive subsidations of these inland waters;therefore I shall not dwell further upon this subject at present.

The tertiary formations above alluded to, which are everywhere found in the Lake countries, consist of, from below upwards-first, blue clay or marl, from 80 to 100 feet thick;second, white clay, 8 or 4 feet thick-both these are regularly stratified; third, brown surface claye, sands, and boulders, generally stratifice, but upon the ridges, and where currents have acted, washed together in unstratified masses.

The great inland waters had flowed off, and had subsided down to the level of Lake Ontario at thirteen different and distinct periods, (see section) more or less remote from each other. In some instances the subsidation had been gradual, in other instances it must have been very rapid. In the earliest periods, it is now satisfactorily shewn that the discharge must have been through the Cheemung valles, i.to the Susquehanah river; but after the waters had subsided to a less elevation than 900 feet obove the level of the sea, the chasms of the Hudson and of the St. Lawrence rivers appear to have been partialliy opened, most probably by those volcanic agencies, of which there are such overwhelming evidences in the castern parts of the continent; and one or both of these openings had subsequently become the medium of discharge. 'The present course of the Mississippi river does not appear to have been opencd up until the period of the final catastrophe which laid dry theMississippi valleg,and reduced Lake Ontario to its present level. Preci-
ously to this period,and during all the long interval when the waters of Lake Ontario were subsiding down from the elevation of Queenston Heights to their present level, the whole discharge from the Mississippi yalley had passed through Lake Michigan, over the Falls of Niagara, and through Lake Ontario.
It was necessary so far to enter upon the general geology of North America, in order to illustrate what we shall now advance concerning the formation of Toronto Harbour.
The harbour of Toronto is about 98 miles in length from the Government wharf to the peninsula hotel, and about 14 miles in breadth from the end of Church Street to the southern peninsula. The water gradually deepens from the north shore. At the distance of 1000 feet from the shore it is about 15 feet deep, and at the distance of about halfa mile from the shore it is about 50 feet deep; farther out it deepens to 33 feet, and continues to maintain these depths for about a mile farther, when as we approach to the southern peninsula the depth suddenly declines from 28 and 50 feet water to 5,6 , and 7 feet water. (See sections.) The same basin-like form is observable when we approach to the eastern peninsula, as when we approach to the north shore, and ncar the entrance of the harbour the deen water narrows. The greatest depth at the entrance is $14 \frac{1}{2}$ feet, and the width of deep water from the Government wharf to the buoy is about 800 feet. The bottom along the north shore is black bituminous shale, interstratified with dark calcareous stone as above described. This same:formation underlays, and in a great measure forias the peninsula or height which separates the harbour from the swamp upon the east; but the southern pennsula is entirely different, the black bituminous shale formation being overlaid by the common tertiary blue clay, or marl; and the blue clay is overlaid by masses of sand and other alluvial deposite,clearly proving that the southern peninsula is not $a$ bar of sand across the bay, similar to the bar of sand across the mouth of Burlingt.on Bay, for it proves that Toronto harbour is an excavated basin, separated from, although connected in some measare with the basin of Lake Ontario; in other words, speaking geologically, it is a separate Lake,and must have been excarated by powers which have ceased to act, since the waters of Lake Ontario have subsided to their present level.

Let us next enquire by what means was the basin of Toronto harbour excavated. In order to solve this problem we must revert to that era when the waters of Lake Ontario were abou: 350 feet higher than they now are, or when they were nearly on a level with the summit of Quicenston Heights.

In illustration of our position I would first draw your astention to those vast masses of sand and gravel which shirt the northern and the western shores of the Lake. It will be sufficient for our present purpose, to confine the field of our examinations to a few miles cast and west of Toronto,-beginning at Scarborough Heights, where we find these masses of sand rising to the elevation of nearly 350 fect above the present level of the Lake, at the distance of three or four miles from the Lake, and gradually declining as they approach to the shore. Proceeding northward from the City, by Colonel Wells' house, we perceive exactly the same phenomena, at the same elevations, only the hill upon which his house is built has been acted upon by a current after its first deposition, and is indented, and cut into a steep acclivity, whilst the ground from the hill to the shore is comparatively level, and has been cleared of the sand, and in many places more recent formations have been deposited. Again, if we proceed from the mouth of the Humber in a north west direction, exactly the same phenomena present themselves, at the same elerations-only there depositions of sand have beenmade, and excavations effected at the lower elevations, even up to the period when the Lalke subsided to its present level. Now, it is important to bear in mind that all these musses of sand and gravel rest upon the tertiary clays, und are a more recent formation; thercfore, extensive denudations must have trken place in the basin or bed of Lake Ontario in comparatively recent times; for that the materials which compose these depositions have been excavated from the bed of the Lake is proved by this fact, that nearly all the gravel consists of small rounded boulders or pebbles of Lake stone, let us enquire into the causes which produced these recent excarations.
We have already shewn that the whole of the waters from the west, including the Mississippi waters, were discharged by the Niagara river, and through Lake Ontario, up to the period Lake Ontario subsided to its present level,-
therefore the quantity of water which flowed through the chasm at Queenston must have been more than double what it is at present.-The highest distinguishable margin at which the waters had continued stationary for a considerable period, after the separation of Lake Erie from Lake Ontario, is 544 feet above the presen: level of the Lake. When the surface of Lake Ontario was at this elevation, the whole of the discharge from the westward had become concentrated into the present course of the Niagara river. At the first a considerable rapid must have existed at Queenston, which would give to so large a body of water an immense velocity, and would bend the current downward, so as to act upon the bottom of the Lake, and to throw up the materials excavated upon the north shore. But the rocks in the line of the chasn, from Queenston to the whirlpool, are not of a nature to resist for a long period the action of so large and rapid a current of water; therefore a level course would soon have bqen formed up to the whirlpool, where no doubt the first perpendicular falls were situated; but the narrowness of the chasm and the depth of the current flowing through it would have produced so great a velocity as would have caused the action to be very sensibly felt upon the northern shore of the Lake. However, this does not become so apparent, as we shall see, until the Lake had subsided to a lower level. The next well-defined margin of tho Lake is 308 feet above its present level, or a subsidation of 36 feet had taken place, by which the current of the Niagara river must again bave assumed a downward bend, and must have again asted upon the bottom of the Lake, and thrown up the materials excavated upon the north shore. This we find to have been the case, for another ridge, formed of the same materials as above described, runs all along the northern shore at this elevation. The next well-defined margin is at the elevation of $\$ 80$ feet above the present level of the Lake; that the same phenomenon had again taken place, is proved by another ridge of the same description being found upon the northern shore at this elevation. The next well-defined margin is $\mathbf{2 0 3}$ feet above the present level of the Lake, or a subsidation of 72 feet had taken place. This must have given the current a vastly greater power to act upon the bottom of the Lake, than any of the three former subsidations; for the current had
not only a greater downward berd, but nlso the waters of iise Lake were greatly reduced in depth; consequently, we find zastly greater deposits of the cxcavated materials upon the northern shore of this elecation. Those heights in Scarborough which project forward to the Lake, the hill upon which Captain Baldwin's house stands, and the ridge upon which Dundas road runs along the head of the Lake, sll belong to this era; but there is one very remarkabie circumstance, viz: that the waters of the Lake must have remained stationary for a long serics of years at the clevation of the base of this ridge, 008 fect above their present level; and the rapid in the Niagara river at Queenston must have disappeared for the greater portion of that time, and the course of the river from the falls (which were then at or near the whirlpool,) to fueenston, must have been nearly level; but so great a body of water as a river equal to the Mississippi and the Niagara rivers united, flowing through, and confined into a course not more than 800 feet wide, must have acquired an awful velocity as it entered into the Lake, and it would be surprising indeed if we could not trace its action upon the northern shore,-traces of its action however, are well defined there, as we shall now proceed to shew.

Scarborough heights just cast of Mr. Small's farm, are well known to you all to consist of masses of gravel and and such as are above described; as we proceed westward we find these masses retaining the same elevation, but at a greater distance from the Lake; they cross the course of the Don river to the northward of Messrs. Helliwell's brewers; they then form the hill to the northward of this city, upon which Captain Baldwin's and Colonel Wells' houses are situated, then trend more to the southward, cross the river Humber to the north of the Dundas road, and assume a southward bearing, encircling the head of the Lake at varying distances of from 5 to 5 , or 6 miles from its present shore. That valley in which this city is situated, forms a sort of amphitheatre, surrounded upon the north side by these heights, the central part of the curve is near to Captain Baldwin's house, where the height of the hill is about 70 feet above its base. It is almost perpendicular, and is evidently on indentation cut out of the masses of sand which had been previously deposited Now, if when
we cramine the chasm of the Niagara river just above Qucenston, we find that the centre of this amphitheatre upon the north side of the Lake is situeted in the direct line of the current, as it must then have flowed out from it, we cannot find any difficulty in discovering the power which produced this indentation; and as we trace the evidences of the action of this current upon the northern side of the Lalke, the conviction becomes certain:y. In the first place, if so large a quantity of sand (for I believe the sand ridge once extended south to near the College grounds) wes washed away by a direct current acting upon it, the materials excasated must have been deposited by the cdrlying waters at a short distance, and at a somewhat lower level than the then surface of the Lake. This position we find exactly realized in the vast masses of sand which form the candy plains near the IIumber upon the west, and in those other masses which form the sandy plains and ridges en both sides of the river Don upon the east. In the second place, if a direct current acted with such effect upon this height, besides the eddying waters produceciby it, at a short dis'ance from the shore where the water was sufficiently deep, an under-current would be formed, in order to preserve the equilibrium, and to discharge the accumulation produced by the direct surface current. This under current would ect upon the bottom of the Lake, and produce a deep excavation, nearly in the line of the direct current, or where the advancing current was pressing the receding current downwrd. We find just such an cxcavation in Toronto bay or harbour, which we have already shern is an excaration in the tertiary blue clay, and to the action and reaction of these currentswe ascribe the formation of Toronto harbour. But still, let us further examine the progress of this denudation upon that sjace beiween the harbour and the hill, or where the city is now built. We have already shewn that the tertiary formations corsist of blue clay 80 to 100 feet thick, white clay 3 or 4 feet thick, and the surface clays, sands, and boulders of varying thickness. Now, at the racine of the blue hills north of the cits, we find the white clay resingo conformably upon the blue clar; therefore these fir nations hare never been disturbed at this place since their first deposition; but. the surface clays appear to have suffered much from conflicting currents. Now the water of
the Lake could not have been more than 40 feet deep at this place at the era alluded to, and although a great turmoil must have existed, yet a regular under-current could not have been formed in such shallow water so near the shore. Again, near the present shore in this city, the white clay is entirely wanting, and the blue clay is reduced to 8 or 10 feet in thickness, evidencing that an extensive denudation has taken place. This is farther proved by fragments of wood and other organic remains being found washed in and deposited upon the blue clay, but take notice, not contained in them, as originally deposited, for such remains are not found where the clay has not been disturbed; within the boundarics of the harbour on the north shore the blue clay is entirely removed; but as has already been shewn, near the southern peninsula the blue clay rises nearly perpendicular, and presents a front to the north almost 30 feet high. Combine these circumstances, and it becomes obvious that the excavating current has come from the northward, or that the excavation of the harbour has been produced by the under-current which we have described. But in the third place, the action of a direct current upon the sand hills aorth of the city, and of extensive denudation produced by it, is proved by the immense quantity of boulders found at their base. These boulders are of many varieties, but one specimen is extremely prevalent, of which we have not been able to find the rock from whence it is derived. It is a hard-veiped aandstone. It may probably belong to some rock in the bed of the Lake subordinate to the old red sandstone shales. It is probable that most of these boulders were first deposited in the sands and gravels, and when these were romoved by the denuding action, the greater density of the stones caused them to remain at the bottom of the Lake, and to be rolled up by the current upon the beach.
It is p: obable that at the time when this basin, nors Toronto harbour, was excavated, the blue clay, and the other tertiary formations constituting the southern peninsula were continuous, and extended to the present Lake shore near the mouth of the Humber river, and that the whole of the Humber bay is a denudation of a ntors modern date, as we shall now endeavour to shew. Atter the Lake had long remained stationary, at the elevation of 208 feet abore its present level, a subsidation of nearly 100
feet had taken place; this subsidation appeass to hare been gradual, and there is not evidence that so great a deposition of sand had taken place upon the nurthern shores, as during the former subsidation. The reason appears to be this, during the period when the water of the Lake was stationary at 908 feet above its present level,the river must have cut a level course through all the harder rocks in the chasm of the Niagara river as far up as to the whirlpool; when this last-named subsidation took place, the shales and sandstones which formed the bed of the river could not so long resist its action as to produce much effect by its downward current upon the bed of the Lake. Besides this subsidation brought the level of the Lake down to very nearly the elevation of the plains between Queenston heights and the present shore of the Lake, or, from 8 or 10 mles from the point where the river left the chasm, the Lake was extremely shallow, and we find that during this period of subsidation instead of the current acting upon the central parts of the bottom of the Lake, it had excavated a large basin where the villages of Queenston and Lewiston now stand, or just where it left tha chasm. But the action of the current seems to have been even more powerful than before upon the north side of the lake, although its direction was changed, as might be oxpected by viewing the course of the river at the mouth of the chasm. Its ravages appear to have been chiefly conined to the Humber bay, and then to have opened Toronto harbour to the Lake upon the west, and to have sent a powerful eddying current through it to the south east.The margin of the Lake during this period,was that hill upon which Mr. Elmsley's house is built; but it is not necessary for our purpose to dwell longer upon this subject. Let it suffice, that the next subsidation had reduced Lake Ontario to its present level, and opened a ncw course for the Mississippi waters-leaving our Herbour nearly as we now see it, only the bar on the south side of the swamp from the southern peninsula to Scarborough Heights, appeare to have bean formed by the present currents of the lake-and duing the present reduced atate of the Niagara River.
We shall now proceed to the second division of our subject, viz: the existing phenomena of Toronto Harbour.
Of these, the currents in the harbour are the
most interesting, as well as the most important; but I must be allowed to state, that what I am about to describe in the first place, is what existed four years ago; for since the late rise of the Lakes, a breach has been made in the bar to the eastward of the swamp, which has caused these currents to cease for the present, and has produced other currents, which will be described as we proceed.

When the wind blows strongly from the westward, the waves are driven into the mouth of the harbour with very considerable force, and act with much effect upon the north shore, (this effect has been increased since the Govemment wharf was built) the constant action of these waves rolling inward produces a very sensible current flowing to the castward of the harbour, but after the gale has continued for a considerable period, the water at the head of the Lake becomes lower, and an under current to the westward flows out of the mouth of the harbour, in order to restore the equilibrium between the water of the Lake and the water of the harbour; this under current is drawn chiefly from the south side of the Lake, for this reason, that the inward waves produce a contrary current upon the north shore, and prevent tiee water from flowing back in that direction.Thus a circular current is produced all around the edges of the basin, the water of the harbour is prevented from stagnating, and is periodically changed. The phenomena of a double current is also beautifully illustrated at the mouth of the harbour. When the wind blows strongIy from the castward, the reverse of all this takes place, for the water becomes raised at the head of the Lake, the surges are forced into the Humber Bay, and whilst the waves raised in the harbour are forced outward, a powerful current underneath is rushing inward, to raise the water in the harbour to the equilibrium of the waves on the shore outside. This process has been known to raise the water in the harbour as much as six or seven inches,-and it must have produced a powerful effect in cleansing the harbour in those times before the swamp became connected with it; since then its powers must have been comparatively weak.

We may as well remind you, that we have already shewn that the bank which divides the harbour from the swamp is of old formation, and that long after the bar had been formed upon the south side of the swamp, the harbour and
the swamp do not appear to havo had any connection with each other. Indeed this is proved by the well-defined former outlet of the surplus water from the swamp, still visible, close by Scarborough heights. It would appear that in these carly times, the swamp had received the waters of the Don, and ather streams. These in the unconsolidated state of the soil, and probably by the bursting out of secondary Lakes, undoubtedly carried into it a much greater quantity of alluvia than they do at present;water plants had taken root, and the processes of growth and decay had, as usual in such cases, converted it into a semi-fluid morass. In process of time the surges of the Lake had blocked up the outlet to the eastward, and caused the water of the swamp to rise much higher than the water in the harbour. These waters had then overflowed and burst through the barrier on the west which separated them from the harbour, and poured in a deluge of water and rnud into it; the which mud remains in the harbour till now, and toward its eastern. end covers the bottom to the thickness of 5 or 6 feet, and to an extent nearly equal to one third of its whole area; this was the greatest injury which the harbour of Tcronto has ever sustained.

We have already remarked, that those currents above described have ceased to act during the last four years; this is owing to an extensive breach effected in the bar upon the east sice of the swamp during the late rising of the Lake, which allows the water to flow freely through the harbour from cast to west and from west to cast. During the autumn of 1838, accident put me in possession of valuable information upon this subject. I was travel. ling one afternoon along the Lake shore road, the Lake was subsiding, and the water in those large ponds upon the north side of the road was eeveral incles higher than the water of the Lake; just as I was passing, one of the ponds burst out, the water flowed off like a deluge and carried several large pieces of turfy swamp weeds out into the Lake, where they floated about. Next day I was down at the harbour, and found several of these pieces of turfyswamp, which I saw carricd into the lake on the previous day, drifted ashore near the Commissariat wharf. The weather was perfectly calm, and they could only have been brought there by an ordinary current; it is thereforea fair inference,
that at this present time, during calm weather, the current of the river Humber flows eastward through Toronto harbour and the swamp, and passes into the Lake through the opening in the bar; but it is equally certain that when the water has become low at the head of the Lake, a current flows in through the opening in the bar, and passes westward through the hurbour.

It will require several yeurs before the full
effect of the present state of things upon the harbour can be properly estimated, but during the survey of the north shore, which I made last summer, preliminary to laying out the breakwater, pier, wharves, \&c. now in progress, I did not obtain any perceptible differences from those results given upon the chart and sections now shewn, which were obtained five years before.

## MONTHLY SUMMARY.

The Legislature of Nova Scotia was prorogued on the 10th of April by His Excellency Viscount Falkland, in the following

## SPEECH:

Mr. President and Honourable Gentlemen of the Legislative Council:

## Mr. Speaker and Gentlemen of the

 House of Assembly:The public business having been brought to a close, I am enabled to release you from your Legislative labours.

I cannot dismiss you to your several Counties, without offering you my congratulations on the results of a Session characterised by great activity, and during which a variety of important measures have been perfected.

Questions of paramount interest, and on which public opinion had long been divided, have been determined in such a manner, as will I trust, redound to the advantage of the community in general. A material, and, I beleve, beneficial change lias been effected in the Judicatory of the Proviace. An Act called the Lands and Tenements Bill, by which a Creditor is secured in his just rights, while the Debtor is protected from extortion or oppression, and which had been under discussion for a period of nearly seven years, has been at length so framed ea to meet all objections, and will at once come into operation. The Court of Marriage and Divorce has been remodelled and essentially improved; and our Criminal Code consolidated and simplificd, and assimilated to that of England.

While these alterations have been accomplished in the Jurisprudence of the Colons, other matters of equal consequence have not been unattended to by you. It is with much pleasure I assent, in the name of the Queen, to
the Bill on the subjezt of Education, which, although it does not affium the principle of direct assessment, in my opi ion the mode that must eventually be resorted to of meeting the difficulties by which this ijuestion is surrounded, yet does enough to render the redemption of the pledge I gave you at our meeting "to concur very zealously in any attempt you might make to ameliorate the existing state of things" both gratifying and casy of performance.

I carnestly hope that the course you have adopted, with a view to the encouragement of $\Lambda$ griculture, and in the desjgn of protecting the Fisheries, may be attended by the advantages you anticipate from it.
In addition to the measures I have enumerated, in themselves of sufficiently extensive practical influence, together with many other enactments suited to the wants of the country, an Act incorporating the City of Halifax has been passed, and the principle of self-government in local affairs has been introduced among Her Majesty's subjects in Nova Scotia, where ${ }_{\text {t }}$ I trust, it will hereafter be generally and successfully developed.
Mr. Speaker and Gentlemen of the House of Assembly:
I thank you for the Supplies granted for the current year, and assure you that the authority of the Executive Government shall be exerted to prevent any ill-considered expenditure of the public money, and that no negligence in the expenditure of the services for which it has been voted, will be in any degree tolerated.
Mr. President and Gentlemen of the Legislative Council:
Mr. Speaker and Gentlemen of the House of Assembly:
It is most satisfactory to me to be abie to state, that not one Bill has been presented by
the Executive to Parliament but which has, after searching examination, been found worthy of adoption; while I am able consistentiy with my duty to the Queen, to agree to every Act that has emanated from either branch ot the Legislature. I cannot but regard this fact as a decided indication that my administration is approved of by the public, and that those by whom I am fortunate enough to be ably and efficiently assisted in the conduct of the Government, and to whom I am deeply indebted for the readiness and zeal with which their aid is at all times afforded, enjoy (in the degrec in which, for the successful carrying on of the business of the Colony, it is necessary that they should enjoy it,) the confidence of the poople.
I thank you very sincerely for the support you have given me, in my efforts to do my duty by my Sovereign and the Province, as well as for the candid consideration you have bestowed on all measures submitted to you, by my direction, with the sole object of advancing the public interest; and, for the present, I cordially bid yon farewell.

This session of the Nova Scotia Legislature is important, as it put to the test the new principles on which the government is constructed, and hy which it is for the first tine during sereral years, placed in a majurity in the Assembly. These principles are those that guide the government in Canada, and they have received the sanction of the reformers of Nova Scotia, an attempt to pass a vote of censure having had only six persens to support it out of a House of fifty-one. Thus that ultra spirit which seeks more the triumph of party than the establishment of correct principles, and the adoption of suitable measures, has been repressed, and the reformers of Nova Scotia have set a praiseworthy example of moderation in waiving some of their just claims for the sake of peace and unity. This may be displeasing to a few whose zeal outruns their discretion, but it will be found the wisest course for permanent power. Correct principles will work their way, and in the end enther render those who administer them conformable thereto, or supersede them by others to whom they are congenial. To have broken up the former exclusive system, and have introduced liberal men, liberal principles, and liberal measures into the legislature and the government, is a great advantage gained, and if it be wisely followed up it will lead to all that can be desired by any reasonable man.

His Excellency SirWiliam Macbcan George

Colebrooke, K. H., the successor of Sir John Harvey in the Government of New Brunswick, arrived at Frederickton on the 23d of April, and assumed the government on the 27th. His Excellency has seen much service, both military and civil, and is said to be well qualified by his business manners and habits for the dutiges of the government.

His Excellency Sir John Harvey has been appointed Governor and Cominander-in-chief of the Island of Newfcundland and its dependencies. The appointment is dated April 20th. If Sir John Harvey succeed in quelling the disorders of Newloundland, as he did those of New Brunswick, he will acquire an enviable distinction as a Governor. He has less promising materials to work upon and work with in this case than he had in the other, yet we have confidence in his success.
A public meeting was held at Annapolis, Nova Scotia, on the 1st of MIay, in order to consider the propricty of taking measures for the union of the Provinces of Nova Scotia and New Brunswick. The Sheriff of the County was called to the chair, and several speeches were made setting forth the advantages of the proposed union by an assimilation of the provincial statutes and duties, an uniformity of currency, concentrated talent in the Legislature, and otherimportant results. Resolutions were unanimously passed in favourof the union, and a committee was appointed to prepare an address to the Queen on the subject. Nova Scotia and New Brunswick were, like thecanadas, originally one, and it is probable that their mutual interests vould be best promoted by a reunion; but the subject requires further discussion before any decided opinion can be formed on it. At present, in consequence of the difference of duties in the two Provinces, the trade between them in their own productions, instead of being regarded as a coasting trade, is subject to all the delay and expense of Custom-house regulations.

The alterations proposed by Mr. Labouchere in his new customs bill are approved by the commercial body in New Brunswick. The annual report of the Committee of the Chamber of Commerce for the City of St.John, says; "Your Committee rejoice to hear that it is proposed by the new Customs Act of the Imperial Parlimment, to restrict duties paid on the articles therem specified, when introduced into
these colonies, to 7 fer cent ad valorem, and thoy hope that our Colonial Legislature will follow out this truly liberal and enlightened policy of the Parent Government, and not neutralize (as heretofore) the benefits anticipated from the operation of the $\Lambda c t$, by the addition on the same articles, of heavy and onerous provincial taxes." The imports for the last year at St. John and its out-stations, exclusive of St. Andrews, amounted to $£ 1,498,474$ sterling, or $£ 1,502,748$ currency. Of this, $£ 100,000$ currency is the value of imports on articles the growth and produce of the adjoining Colonics, which, say the Committee, "can never be taxed by any of them in their mutual exchanges without injury." The report mentions that Captain Bayfield is about to begin a survey of the Bay of Fundy.

The Post Office arrangements have been so much improved this season, that on the 12th of Nay we received via the St. Lawrence the news by the Britannia Halifax Steam Packet, which left Liverpool on the 20th of $A$ pril, making $\mathfrak{Q}$ days to Toronto; and on the $\mathfrak{Q u t h}^{4}$ ot May we had the news by the Culedonia, which left Liverpool on the 4th. This passage of 20 days from England to 'Toronto, and entirely by the British line throughout is highly creditable. And Mr. C. Wood stated in the House of Commons, that the increased revenuc to the Post Office, by increased correspondence, in consequence of the establishment of the Halifax line of steam packets, had nearly covered the expense of the contract ( $£ 60,000$ per annum).

Mr. Alexander Micheod has been removed from Lockport to New York, and a motion has been made in the Supreme Court for his discharge. This motion was fully argucd on both sides, and on the outh of May it was ordered that as it was "improbable that the Court will be able to render its judgment in the premises at the present term," "the defendant be committed to the custody of the Sheriff of the City and County of New York, until the further order of the Court.When the transfer has been made, the Sherifi of Niagara will be no longer chargeable with the custody of the defendant."

The following petition has been prepared in Montreal, and extensively supported, bengsigned by the principal merchants, including the Committee of the Board of Trade. It agrecs with the plan brought forward in the Revicu,
and will meet the wishes of all parties in Canada:-

The Humble Pctition of the undersigned Nerchants residing at Nontreal, in the Protince of Canada, Respectfully sheweth,
That your Peitioners have heard of some proposed changes in the duties hitherto imposed upon articles of foreign produce or manufacture imported into the British Nurh American Culonies and Your Majesty's l'ossessions in the West Indies.
That although your Petitioners are satisfied with the proposed changrs, as being just, and in many respecis beneficinl, still thry view with great apprehensim, the deprivation of the valuable trade they have hitherto enjuyed with the West Indies, which has afforded them an outlet for their pork, beef, flour, butter, and many other articles of Canadian produce, and hope they may be compensated by tho markets of the United Kingdom being thrown open to them.
That tho duties now imposed on beef, pork, butter, and lard, in tho United Kingdom, are so heavy as to bo almost prolibitory, and such articles are produced in Canada to a large extent.
That the quantity of wheat and four produced in Canada is yearly increasing, and consequently requires overy possible encouragement.
That in case all duties are tahen oft from Canadian provisions, and it should bo desirable, at the samo time, to prevent the produce of the United States of America from being exported to the Lnited Kingdom on tho same terms,-your Petitioners suggest that a duty might ba levied on the frontier, for tho use of Your Majesty's Treasury, on articles produced in the United States, imported into Canoda, tho same as on other fureign produce, and at the samo rates, und that after such duties shall have been paid, such provisions be put on the same footing as Cunadian produce, when inported into tho ports of the United Kingdom.
Wherefore your Petitioners bumbly pray, that your Majesty will repeal all duties now levied in the United Kingdum, on beef, butter, pork, aud lard, ns well as un wheat, rye, Indian corn, barley, oats, buckwheat, beans, peas, and other grain, und tho flour made therefrom; levying on the fruntier of Canada, adjacent to the Uniterl States of America, such cuties as may be considered sufficient, and allowing all provisions fuom Canada, after paying such duty, to enter free into the ports of the United Kingdon, allowing a drawback if reexported to the United States of Amertca, and gour petitioners as in duty bound will ever pray.
The Chancellor of the Exchequer brought forward the Budget in the House of Commons on the 30th of April, and the following abstract of his speech on the subject explains the nature and reasons of the contemplated clanges in the duttes on foreign and Colonial produce. It will be seen that Colonial timber will still have a protection of 30 s. per load:-

## THE BUDGET.

[^3]ho had anticipated that tho oxpendituro would ninount to $£ 40,400,000$, and tho income to $£ 48641,000$ : leaving a deticiency of $£ 858,000$. The actunl newults of the yoar had been less fuvourable than he had anticipuied, for though tho expendituro had anoumted only to $£ 49,285$, Oitu, the incomo had only reached the sum of $£ 47,443,000$, leaving $n$ deficiency of mure han £1,840,000. The Right Ilonourable gentieman then wont over the revenue-tables, and onumerated tho several items in the customs and excise in whech there had been a fulling off ur an increase. Amung thoso in which a more marked fulling off had taken place ho enumerated currants, molusses, spirits, sugar, ten. wine, and sheep's wool; but for the declino in each of theso a reasun would readily suggerst itself to the House. The diminished revenue from sugnr and mulastes Mr. Baring attributed to tho exhorbitant prico to which that article had risen; the anticipation of a commercial reaty with France had naturally tended to interfere with the duty arising from wine; and in the diminished consumption of spirits Ireland bore a largo share-but, hovever that circumstance might inconvenienco his statement that evening, ho should be ashamed of himsolf if ho did not allude to it with sincere pleasure. The revenue from the l'ost Olfice had follen short of his expectations; but that was owing not to a deficiency in the anticipated increaso of loters posted, but to the increased expenses which had become necessary in consequencu of the opening of railroads, and of the great augmentation in tho business of the office. For the ensungy year he calculated that the nutiotial expenditure would be-

| In | 9,494,000 |
| :---: | :---: |
| Other charges on consolidated fund | 2,400,000 |
| Army | 6,587,000 |
| Nay | 6,80j,000 |
| Ordnanco | 2,075,000 |
| Miseellaneos | 2,935,000 |
| Extraordinary Expenses for Canada | 180,000 |
| Expedition to China | 400,000 |
| Makins |  |

Tho items having been given in round numbers, the totul would not exnctly agree with them, but tho total was as he had given it. The Chancellor of the Exchequer next entered on the items of the revenue which the anticipated for the ensuing year. The customs, ho expected, would produce $£=22,000,000$; the excise, $£ 14,000,000$; the stamps, $£ 7,130,000$; and he thought ho might rely upon it that the intal revenuo would not fall short of $£ 48,310,000$. This would leave a deficiency of $£ 2,421,000$ to be provided for. Mr. Baring entered into some explanation to show that the permanent deficiency, which he would really bave to provile for would bo $£ 1,700,000$, as several items of the expenditure of next year were of an extraordinary character. Under these circumstanees, it became necessary to find some means to make up the revenue of the country to $£ 50,000,000$. No taxation could be so injurious as a permanent disorder in tho national finunce3, and the sum shoy had now to provido for was so large as to mako it absolutely necessary for them to act with some degree of boldness. The question was how to do so. Should Ministers fall back upon taxes which they themselves had not long ago ropealed-tho house-tax, for example, or the tax on coals? Shonld they impose taxes on things that had boen hitherto exompt-place a legacy duty on real property, or a tax on agricultural horses? Were they to lay a tax upon new articles of strength which had come into existence since the system of taxation, such as gas or steam? Ought they to adopt
tho nece excernted, though now pupular plan of a property taxi Or might they not mako somo now anrangonent of existing tuxation, so as to oltain tho needed supplins without ndidng to the butdent of tho peuple 1 Ite was surs that iwo articles, sugar and timber, hal alrendy suzsested themselves to the houso us those whih which it woss his intention to deal. The present dury on Colonial timber amounted to 103 a luad, and on Baltic timher to 553 . This duty Lord Spencer had propused to modify by raisiug that on colatial to $204 .$, and reduring that on Bultic $t$ 'nber to 50 s a load. Mr. Barime intended to adopt tho proposition of his suble friend. From this change in the timber duttes Lurd Spracer anticipated an increosed revenue of $\mathbf{£ 7 5 0 , 0 0 0}$, Lut said that he should be cuntent with $\mathcal{E} 600.000$. Mr. Baring should be content to tuke tho samo sum as Lurd Spencer. He next explained that the alteration which he intended to propnse in the sugar duties would still deave a proteciion of 50 per cent to colonial sugar. Ho meant to leave the duty on colonial sugar at the present amount of 24 s per cwt ;* but that on foreign sugar, now amounting to 63 s ho should propose to reduce to 363 per cwt. Fiom this change in the sugar duties ho expected an augmentation of $£ 900,000$ to tho revenue, luit ho would estimato it only at $£ 700,000$. Frim sugar and timber, then, he looked for an increase to the revenue of not less than $£ 1,300,000$; which woufd still leave a deficiency of 400,010 to bu provided fur. His noblo friend had that evening given notico of his intention, at an early period, to submit tho question of the corn trade to the consideration of the house ; and if the propositions of his noble friend were agreed to, he should be under no uneasiness respecting the remaining $£ 400,000$. If they were not agreed to, it would of course becomo his imperative dinty to make provision ly direct taxation. Mr. Basing went on to ask the house to look at the present aspect of public affuirs. There was the German Leaguo extending its influence and increasing its protective duties; there was the American tariff; and there was the treaty with the Brazils, the renewal of which would soon have to become matter of negociation. Biat it would be in vain to press upon those nations a liberal line of policy, if this country were to keep up pruhibitoons under the name of protection; they would retort," We hear what y su say, and wo see what you do." If there was any intention whatever to admit the produce of foreign countries, the houso would feel that they ought not to delayand postpone until they lost the marhets of the woold, and had nothing left but to give way with reget and despair.
A long debate ensued, in the course of which ministers wero taunted with improper motives for their intended delay in bringing forward a measure which their chief lad but lately declared to be the first step to insanity, with having added every year to tho embarrassments and expendirure of the country, whilst its incume has benn constantly diminishing, with the probatility of the charge of the timher duties ruiniag the trade of Canada and tho shipping interests.

The Chancellor of the Exchequer explained that $£ 800,000$ had been voted o:1 exchequer bills to make up the deficiency of $£ 1,300,000$ of last years; that: $£ 750,000$ would bo paid out of the Savings' Banks, and that government were prepared to extend their revision of the tariffto other branches of trade, but must tirst grapple with the corn-laws.

[^4]Lord John Russell stated that the corn-law proposition would embody the principlo of a moderato tixed duty, and would bo brought forward as a cabinet question.

The Chancellor is to submit the resolutions in which his schome is to be incorpurated on Finday.

Lord John Russell gave notice for the House of Commons to go into Committec on the Corn laws on the nest order day after the 31st of May. Ministers intend to propose a fixed duty instead of the present changeable one,but what the amount of this fixed duty was to be had not transpired. It has been conjectured at 8 s . per quarter, and at 10 s . It is probable that the duty on Colonial bread-stuifis will also be reduced, if they are not admitted at a nominal duty, which is most probable.

The following despatch on the Land Granting System is from Lord Sydenham to Lord John Russell:-
Copy of adespatcla from Lord Sydenham to lord John Eussell.
$\left\{\begin{array}{c}\text { Government House, } \\ \text { Montreal, October } 1:, ~ 1840 .\end{array}\right.$
My Lord :
I have the honour to acknowledge the receipt of your Lordship's despatches of the 31st August and 3th September, Nos. 13 and 981. As the subjects of these despatches are intinately conizected, I answer them together.
It is unquestionable that the land revenue of Lower Canada has been very inconsiderable during the last few years, but, in attributing the diminution, as I understand your Lordshap to do, to the effect of Lord Durham's proclamations respecting squatters and militiamen, your Lordship appears to have fallen into an error. At the time when Lord Durham commenced his enquiry iato the disposal of Crown Lands, he suspended the sale of them, and that suspension continued until it was altered lately by myself.
The only sums, therefore, receired since that on account of the land revenues, have been inetalments for lands previously purchased, rents for lands under lease, and payuents for licences to cut timber. These sources of revenue are of course inconsiderable when compared with the proceeds of the sale of land when the old system was in full operation. I feel confident that os soon as the new system shall be in operation, the land revenue will not only equal, but exceed what it was in former years. I do not perceive that it can be affected in any way by Lord Durham's proclamations respecting squatters, because by setting up all unappropriated Crown Lands for sale at a fixed price, the exclusive privilege conceded to that class by Lord Durham, is at once neutralized. But in order to avoid any difficulty, the notice, of which the enclosed is a copy, was issued from the Crown

Land Office simultancously with the new land regulations, requiring that all claims ander Lord Durham's proclamation shall be lodged before the ged of January next. Your Lordship's deupntch contemplates closing those claims at even an carlier date; but as the curtailment of the time would now be comparatively immaterial, and as any interference with a notice of this nature might givo rise to complaint, and be regarded as a breach of faith, I trust your Lordship will not disapprove of my leaving the matter as it at present stande.

I now proceed to notice the report of the Land and Emigration Commissioners, and in doing so I must express the satisfaction I have derived from the different communications from those gentlemen with which your Lordship has favoured me, exhibiting as they do great attention to the important subject entrusted to them, and expressing opintons in which for the most part I quite concur.

First, the Commissioners express their dissent from the principle of affixing diferent prices on land in different localities. Were Lower Canada a wilderness now about to be settled for the first time, I should agree with the Commissioners. The principle of leaving the choice of the purchaser unfettered and influenced is no doubt abstractedly correct, but it connot be applied to such a country as this without modification. Under the old system settlement has been encouraged in every part of the Province indiscrininately; and although the concentration has naturally taken place in localities enjoying pecular advantages, there is a very largo population scattered through the more remote parts of the province. To fix a uniform price on all lands would draw awoy population from these less favoured districts, and concentrate it altogether in the neighbourhood of the large towns and rivers. This would not only be a hardship on the more remote districts, but would have a bad politicul effect by leaving those districts, principally inhabited by French Canadans, to grow up in their natiocal prejudices and habits withoul any sympathy with ther fellow colonists.

The fearexpressed by the commissioners that the low price of the inferior lands may tempt those who should be labourers to become landholders is, I think, quite visionary. As the whole price must be paid at the time of sale, and as there is no intention of breaking up the land into small locations, there is no ground to apprehend that men without capital can become purchasers. It is not from the acquisition of land by poor men, bit from the speculation of the rich that the country has suffered and continues to suffier. Aidd for this evil the remedy is not to be found in an increase of price, but in the imposition of an annual tax.
On this latter point, the imposition of a tax, your lordship is well aware of my opinion, as it
was one great object of the municipal clauses proposed by mefor the Union Bill. The omission of those clanses has indeed put it out of my power to adopt any immediate step in the matter, and for this most serious evil Her Majesty's Government and Parhament are decply responsible; but my whole experience in these provinces tends to confirm my opinion of the necessity of such a measure. Mr. Buller, in his report to Lord Durham, contemplated, as the Commissioners observe, a tax on wild lands only; but I agree with them that the tax should be on all lands, whether wild or cultivated, and that it should be uniform"in amount. On cultivated land it would in fact be scarcely felt, but it would operate as a penal tax on whd land, and itwould compel the owners elther to cultivate or to dispose of it. If applied to local improvents, such as the cpening and maintenance of roads, the repair of bridges, \&c., it would be the greatest boon ever conferred on the coumtry; and so general is the concurrence of opinion in ite favour that I do nut altogether despair of being able to obtain its imposition.Some of those who, from holding large tracts of wild land will be most seriously affected by it, gencrally admit that in a short time they would gain rather than lose by it.

In respect to the amount of the price fixed by me as compared to the upset price in the United States, the remarks of the commissioners or:sinate in a want of accurate acquaintance with the circumstances of the respective countries. It is true that land $1 s^{\prime \prime}$ subjected in some of the States of the Union to direct taxation, which, pro tanto, increases its price to the pur-chaser-but on the other hand, the facilities of communication are so much greater in the United States, population so much denser, and the market so much more accessible, th.:t land there with all its incumbrances is far more valuable than land in Canada. I have little hesitation in saying, that land in the State of Vermont or New York, is cheaper at 6s. Sd. than in Canada at 6 s . It is to be remembered too, that althuugh the settler may pay fewer taxes in money for the land he occupies on our side of the linc, he is in reality exposed to far heaver charges in another shape. Those taxes go to make roads, establish communicatiuns, and at unce ituprove the value of his property and diminish the expense of cultivation and residence to the settler in the United States, whist on our sude, under the present system, although the tax-gatherer does not demand it, a far greater outlay than he could claim is eapended by the settler in a varicty of charges arising from the absence of these advantages which are the result of the tax.

The commissioners are further mistaken in supposing that there is any sentiment among those who emigrate from England, sufficiently strong of itself to counterbalance any consider-
able advantages which they might obtain by settling in the States. Such is not the case. In order to retain our emmgrants, and more especially that valuable clasis, the small English farmer, we must make it ther ndivantage to stay with us; and I should therefure decidedly disapprove of any increase in the price of land, for the present at least, beyond what I have proposed.

With respect to the surver of the land, I entircly arree in the observation of the commissioners. Of late years a much more perfect system h.as, I am informed, been pursued; but there is as: doubt that in former times, survegs were very inaccurately made, and descriptions very carelessly drawn up. The difficulties which may arise from this, when the country comes to be more thickly ecttled, and land increases in value, it is perhaps, impossible to exaggerate; and I should be very anxious to adopt some steps, while it is get possible, to arert them.But the question is of so much inportance, and so intimately affects the right of property, that I require more time fur cunstderat on before pronouncing any opinion as to what should be done. In the mean time, your Lordship may be assured that every care shall be taken to ensure the accurate survey of all land which may hereafter be sold. I shall refer for the considcration of the Commissioners of Crown Lands, and the Surveyor General, the proposition that, in future, lots shall be laid out in equal parts of a square mile, the smallest lot consisting of onehalf of a square mile; and I shall reserve my opinion on this point till I receive their report.

I also concur in the opinion of the Commissioners, respecting the establishment of land offices in several parts of the province. Indeed the system has, to a great extent, prevailed for several years in both the Canadas; and in regard to the speedy completion of patents, your Lordship will observe, in the notıce issued from the land office, it is expressly stated that steps will be taken for that purpose. The present system is cumbrous and dilatory to an excessive degree: but I trust I may be able to effect suchalicrations as will ensure the issung of a patent within a weck or ten days after the payhaent of the purchase money.

The reservation of minerals has hitherto been inserted in all grants, in conformity with the Rnyal inctructions; but I have no doubt that, for the future, it may be better omitted.It it has any effect at all, it must be injurious. The racervation of particular descriptions of timber is a more scrious question; but, even with respect to this, I arn disposed to think that an alteration should take place. The only timber which the Crown requires is that for masts in the Rogal Navy. The timber on account of its size, is more valuable for masts than for any other purpose, and would consequently be
almays disposed of to the Admiralty agent, in preferenco to any other purchaser. The privilego of tho Crown has hitharto been, in fact, inuperative; and tho only attempt to put it in furen (that whieth has been directed by your I.ordship, in favnur of Mesgrs.Chapman,) has called forth very strong and forcible remonstrances from all parties interested in the trade. 1 shall havo to addreas your Lordship more at longith on this point hereafter. In the mran time, I would metely request that tire clause relative toreservations in grants may he omitted from the linyal Inatructions.
Tho encouragement of settlers from the United States, by any direct alteration of the existing law, I should deprecate ot the preeent moinent. l'ractically, thero is, I believe, no difficulty in their acquiring land; but I do not think it would be advantageous to confer on them, as a riglts. what they now enjoy nnly on the sufferince of the British Gnvernment. With every respect for their energy aud intelligenes, and filly admitting that, as the pioneers of civilization, they are superior to 1 ry other penple, I do not think it wculd be wiso, by any general measure, to invite thnir settlement in large rambers in the most papulous portions of Canndn. There is a spirit of propagandism amnng American citizens, which makes it necessary to obaerve great caution in this mattor. At the samo time. I think that, in individual cases, their claims to bo ndmitted to the rights of British sulyjects on certain conditions, should 'jo considered in the most liberal spirit; nnd I am happy to beliove that, for several years past, this spirit has prevailed in both provinces.
I have now gone through all the suggestions of the Commisaioners of Jand and Emigration; and it is satisfactory to me to find that threre is little difference between the virws of those gentlemen and my own. The suhject of the disposal of the Crown Lands is onn of the most important which it is my duty to consider: ond, in the setlement of tho executive departments, under the Union Bill, it hwill be my endeavour to make such arrangements as may ensure tho efficient discharge, for the future, of the duties of the Commiswioners of Crown Lands and Surveyor General. The errors of former -systems, and the ling continued neglect of this branch of the public service, have no doubt created difficulties of a very serious nature; but I trust that it may bn in my power to overcome them, and to introduce intu this portion of the administration a system which $י$ - both advantageous and satisfactory to the pub.
I take this opportunity of acknowledging your loriship's despatch of the Ist sugust last. No. 195, and of informing you that [ havo directed the questions proposed by the Land and Emigration Commistioners to be printed and distributed among all those who may be able to give accurate infurmation on the points adverted to by them.

I shall take anothre and early opportunity of replying to the communication from the Commissioners on the suhiect of Emigration, transmitted in your despatch, No. 291, of the 13 th August.

## I have, \&c.

(Signed) SYDENHAM.
The Right Hon.
Lord John Russell, \&ec.
The Provincial farliament has been prorogued to the 14th of June, then to meet for tho despatch of businpss.

His Excellepcy the Governor General and suits arrived at Kingston on the 23th of May, when thrro
was a genoral procession of the inhabitanta to wolcome His Excelloncy.
To the Right Honorable Cuanles, banos Sidenham, of Sydenham in the County of Ment, and of Toronto in Canada, one of Her Majesty's Most Honourable Privy Counci, Governor General of British North America, f.c. foc. ifc.

## May it please Your Excrilency :

We, the inhabitants of the Town of Kingston, beg permission to most reapectfully offer to Your Excelfence, our sincere congratuations on your arrival at the Seat of the Government of United Canada.

Wo have learned with teelings of extreme sorrow, that Your Excellency suffered under a painful indisposition; and it was with anxious solicitude wo daily nwaited the announcement of your restored health. In these feelings wo participated with our follow-subjects throughout the l'rovince, for whose general isenpfit you have undergono those mrntal and bodily labours which could scarecly fuil to press on the haman constitution.

It is ucedless for us to assuro Your Excellancy that we rejoice that it has been our providential jot, to be placed in a gengraphical position so fuvored, as to bo selected by those mast competent in drcide this momentous question, fur tho location of the Government of this extensive l'ovince. But while we behold with humble gratification this important change in our condition, we cannot but feel sensiblo that considerablo personal inconvenience must, for the present be exporienced by many who will necessarily necompany this movement; and it hecomes our duty as it will bo our endeavour, as far as lies in our power, to render those inconveniences as little pressing as possible on thase exposed to them.

With respect to Your Excellercy personally, wo take this occasion to declare, that we should be wanting in every feeling of gratitude and duty, were we to Sail in ministering by all the means within our power to luur Excellency's comfurt and wishrs; and wo fervently hope that notwithatanding the disadvantages of temporary accommodation, Ynur Excellency may enjoy uninterrupted health and huppiness.

On behalf of the Inhabitants,
(Signed) J. COUNTER, Mayor.

## His Exceliency's Reply:

## Mir. Mayor and Gentlenen :

I accept with grat pleasum the welcomo which you offer me nn my arrivalat Kingston.

Having felt it to be my duty, with reference to the general interests confided to my care, after due consideration to fix upon your city as the place where the first Legislature of the Provnce of Canada should meet, I learn from you with satsfaction, that the inlabitants are determined to use their best efforts to contribute to the comfort and conven:ence of those whom the public business must necessarily assemble there. It is unfuestionably your interest to do so.
On my owa part I thank you for tho expression of your sympathy for the sufferings with which I have been oflicted. The interest which $I$ take in tho welfare of this Province, and my deep conviction that tho present is a crisis in its fate, will I trust under Providence, support me in the task which yet semains to bo performed, and enable mo even under tho disadvantage of failing health and strength, to discharge my duty to my Sovercign, and to the Penple of Canadn, who have afforded me so many marks of their confidence and regard.


[^0]:    * Mcantime, a few insulated wordshave been continually nourished by authors: that is, transferred to other useg, or formed by thoightiful compocition, or by skifful alterations of furm and infleame. I hus Mr. Coleridge introduced the fine word ancrsital, m heu of the lumbering ward anccstorial. about the year 1798. Milton introduced the molispensalle word sensuous. Daniel, the tuly phito nophic pret and historian, introduced the spirnded ciass of words with tho affix of inter, to denote reciprocation, ${ }^{\circ} \cdot g$. interpenctrate, to express mutual or interchangeable pene tration; a form of compnation which is deeply lieneficial to the languase, and has been extenswelyadoped by Coleridge. We ourselves may boast to have antroduced tho word orchestric, which we regard with parental pride, as a word expressive of that artificial and porppous music which attends, for instancer, the claborate hexamater verse of liome and Greece, in comparison with the simpler thyme of the more exelusively accentual metres in modern languages; or expressive of any orsanised music, in oprosution to the natural warbling of the woods.

[^1]:    * It is ussumad that the land carriage from the interios to the Lake Por.s will be cqual to the correxponding cartiago in Lurofe to the ports of expontation.

[^2]:    * The , nanits or leaping rock is a part of tho precipice which has become severed frum the main part, standing wathon about seven or eight fect from thewall, just eytal in herght, and about seven feet in dhameter. is sland $\rightarrow$ like an mmense culumn of 35 feet high, and polashicd like a mirror on ins ap and sides. It reguires a daring effurt to leap on its top and back again, and many a heurt has sighed for the honour of the feat without daring to make the nttempt. Some few huve tried it with success, and left their arrows stamdins in the crevice; several of which are seen there at this time; others have leaped the chasm and fallen from the slippery su face on which they could not hold. and suffered instant death upon the cragsy rocks below. Every young man in the nation is ambitious to perform this fent; and those who have suecessfilly done it are allowed to boast of it all their lives.

[^3]:    In the Heuse of Commons, on Friday evening, the Chancellor of the Exchequer made his financial statement. He said that when he camo forward last year

[^4]:    * To these amounts of the existing and proposed sugar duties must be odded 5 per cent. on account of the aummentation of taxes last year; of which Mr. Baring stull takes advantage.

