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## EDITED

All Co
TERMS.-3s. 9
Vol, 3.

## Literature

In a former ar tion, we attempt of society w'th ture, during the years of the worl to trace the sta elementary instr sixteen centuries

If our obiject bloodehed and pages of ancient tash would be con to trace the char useful knowledge We have seen the and heathen, had depths of darkue Greece and Ro number, and lim tions, compared pconle, were now nificance; the tea Doctors and Rab interwoven with customs of the $h$ "schools of the succeeded by sch in a word, sll thir

#  por nova scotia, new brunswick, and prince ERWARD ISLAND. 

## EDITED BY - - - $-\quad$ ALEXANDER MUNRO, Bay Verte, New-Brunswick. <br> All Communications to be addressed to the Editor, post paid.

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No. 2.

## Literature and Elementary Instruction in the Middle Ages.-No. 2.

In a former article under this caption, we attempled to show the slate of ociety w'th reference to literature, during the first four thousand years of the world. We now propose to trace the state of literature and elementary instruction during the first sixteen centurics of the Christlan era.
If our otject was to detail the wars, bloodshed and devastation, that the pages of ancient history present, our task would he comparatively easy; but to trace the character and extent of useful knowledge, is a herculean task. We have seen that the world, Jewish and beathen, had sunk deeo into the depihs of darkuess. The schools of Greece and Rome, thougn few in number, and limited in their operations, cumpared to the wants of the pcoule, were now dwindling into insignificance; the teachings of the Jewish Doctors and Rabbis, were mixed and interwoven with the teachings and custnms of the heathen nations; the "schools of the prophets," were not succeeded by schoois for the people: in a word, sill things truly moral and
intellectual lay prostrate at the feet of ignorance aud heathenism.

But a new era was about to dawnthe old, with its long train of types, shadows, cymbols, yorgeous appearances, and external forms-mixed as they ultumntely were with those of the heuthen nations, were ab ut to pass away; and the lay-star now began to rise in the midst of a morally and intellectually backward world. The fiat, predicted by a long irain of prophets, was now about to be executed; new teachings, new light, in a word, a new dispensation was ushered in.
The New 'Testameut Scriptures, like that of the Old, is generally silent on the sulject of Education; the principle adopted by our Saviour and his Apostles, in communcating knowledge, appears to have been by oral teaching. In truth, this appears to have b'en the genaral node of communicating knowledge, until a very late period of the present era. The teachers, under the Je"isb, and at the introduction of the Christian Dispensation, having been conmmssion dedi-
rest by God, to publish good news, did not require to be taught in the schools of Greece, in or iner to comminicate the will of Heaven to tallen man; neither was it necessary that th se who were privileged to sit at the feet of inspired teuchers, shumld be instructed in Phinecian or Grecian Literature, in order to understand and follow the truth.

But when ofull and crmplete revelation of the will of Heara: was given to man, it became, at in theso times, necressary that every soon and danghter of Allam should bs able to read and understand the Scriptures.
In aescending the stream of time, we find that with the exception of the first two or three efnturies of the Christian era, which was illuminated by the rays of Gospel light which were shed upon munkind in Apostolic times, that darkness agan broolted over the moral elements of the world, and the true knowledge which had been freely bestowed, was almost again extinguished.
The teachings of the Apnotles began to be lost sight of ; the Roman empire abandoned every legitinate means of educaling and cultivating the minds of hur vast ponulution: the liperature which she had translated f"um Greeee began to decline ; conquest becaine her mottu; until the division, and ultimate subdivision of that once powerful empire took place; whin stie was over-run by bordes of Northern birrbarlans, who in their maduess nf-cunquest, extinguished even the few gleans of intelleciual light that had been permitted to shine, though dinly.

The instintions of a country once laid pros'rate by war, and the kindred evils connected therewits, oversladowing the land, it requires cemuices of peace, and sinctal, mural, and intellectual develomment, befors it can arix" out of baboui.m and ignamance, into a state of moral and midleciaal jeformern!. Thar human mind does not pass at otce from a hegh digree of intellectual eminence, life that to
which it had attained during the best diys of Grecunn and Roman History, to un abject atate of mental cantivity, like that ta which it was reduced during the Midille Ages.

We find litwrature takıng its rise in Julea, lutroduced from thence into Chaldea, where i: was cultivated for a tilue; this nation was ovirpowered by the Babylonians, the Ba'bly, nians by the Assyrinus, the Assyriatis and Egyptians by the Persians, the l'ersians hy the Greeks, the Greeks by the Romans, and the Romaus by the Nurtheru Barbarinns. During the best llays of theso severnl empires, literature made considerable progress but only for a t'me ; every chan ce in the state introduced a change in the state of iteralure ; during peace knowledge increased, but only to be destroyed liy war. We have now arrived at the period of the decline in literature, which was gradnal thungh rapid. 'The cuuses by which this revolution in literature was effected, were numprous. 'The destuction of the Alexindriall library, where were deposited the intellectual treasures of centuries; the disorganized state of suciny ; the rise of Mahomet, whodestroyed all the works of the ancients within his grasp, for fear that they would di-agree with the Khoran; the the projudices ententinined liv many of the fathers of the Christian Church against heathen buerature; the progress of sup.rstitinn ; the ignorince and vices of a large portion of the clergy ; the se ling up of the remaining works of the ancients from the mass of soclely in monastic instisutions, where they were forgotten; the general decline of manners, and the exclusion of the laity, however exa ted their station, from the advantages of educainu, and tmeans of inellectunl improve men. There were manyother collateral causes fur this decline in useful knowledge, but the abre wil sulfice tolrad tle rend.r th see the stito of soctety at this priod of our tistory.
s'ill in the midst of all this decay,
the bost History, antivity, ced dur-
risa in nce into ated for powered yl, nians inis and he l'ereeks by by the ing the empires, proyress an se in in the ce know) be deiv arrivclane in Ihrug! this re--ffected, uction of ere were tsures of state of , whodeancients hat they ran; the many of Cburch the prognorance in of the $\rightarrow$ remainfrom the institutren; the and the er exa ted thages of rellectual any other Hecline in ove will 1 see the d of our is decay,
there arose once in awhile, men, eminent in scholnstic attainments; during the first few cenluries, there arose not less thin torty, the half fur whom were fathers in the Christinn Charoh, who figured as scholirs, and many of them as writers; and during the time that elapsed between the finrth and sixteenth centuries, there ex isted upwards of fifty, who figured in the walks of scientific research.
We have sean that during the reign of Mahomet, who acted as a prophet, warriar, general, and conqueror, who su bduand the Enstern world, the world of the ancients, into one vast empire, the Saracente, that literature was almost blotted out of existence; and it was not until n century alter his de th that the Arnbians began to ristore the literalure of former ages. Tharir writings may be divided into the imaginative und philosophical; the former of native growth, and the latter of foreign trunslation. In the latter, they were but the disciples and copyists of the Grecks. Howevar, the literature of Arabia, whinh never rose to a very high standard, rove and fell with the Caliphs, a title assumed by the successors of Mahomet.
In England we have no account of the state of education, except so far as coninind to the Abbeys and Colliges, previous tis the reign "f Alfret, the hero of fify-six hat'les. This monarch did, says Rissell, ahout the y"ar 8!), "establish schowls for the instruction of the igworant, and njooined by law all freehilders, possessed of two hide of ground (ubutt wo hundred acres) to send their children to echool; and he gave prefrra-nc, either in Church or State, to sucth only as had made some proficierry in knowledge.'.King Alfred wus a close studen: himself, and c.mposed many use ful works
"to lead the unt "to lead the untratored mind to the love of letters, and bond the heart to the practice of virtue."
At this period sonie oflier mations conimued to enemrare Uuistrsily education to a limited extent; but the
mass of society could neither read nor
write.
Charlemagne, also, tnok an interest in the education of the people, and established schonls for that purpose; but the schoons establisitied by these two monarchs soon dwindled int" insignificance, so far as re?ated to the instruction of the comman penple. Learning at this period us as cincidered dangerots to true piety. The latin tongue, the principle medium of cummunicathon, was but inplerlectly known -and the scarcity of parchment, together with the expense of trunscribing. rendered honks so tixten-ively dear, as to be only within the rear'h of a few. The effect produced by the establishment of thase schwis, were soon olihterated, and intellectual darkness again covered the earth, so far as the education of the people was concerrued, and any advances made in literature, mi til the inven'ion of printing, were confined to a few individuals, and tu a limira number of suhjects, connected principa ly with the mathew inatical sciense.

We are indobted to the Arabians for the intriduction of Algeb $\cdot \mathrm{a}, \mathrm{Ge}$ onetry, Trignometry, Astron my, Natual Plilo ophy, and especially fur many discoveries and imprivements in Arithmetical science. From Arubia, this thirst fur literature extended into Eurupe; and in the twelfih and sncceeding century, there arose several Mathematicians and Astronomers. At this time the minds of the miss of scciety, throughent the world, were grossly ignorant, and litemure was pitirely expelled from Greece and Eyypt, its ance great depositcries; and now Arabia and Europe began to light the lasops of science. In the later we find the invention of the Marmer's Compass in the twelfih, and Printing in the fifteenth certuries, wre among the great advancempits of then nge.
The attracting power of the lradstone sermis to have leen kor wo to the anciens in wry remme periods; but its "pplicatinn to the purpores of
navigation and surveying, appears not to have been known previous to the middle or close of the twelfth century. The Euglish, Frrech, Itainns, Germulus and Chinese, all contend for the honume of this invention.
'T'o whom the hon ur belongs, it is diffirull, and probably impissible, to determine; but its effer:ts on the destinies of the world is stereotyped upon every movement of suchity; by is an intercourse with transsoarine reglons, either fur purposers of c"m merce, benevolence, the extension of knowled ce, or the spread of Christianity is obtaned; and ty its means the veograply of the globe and its subdivisions are ascertained.

The anctent Baby lonanas mud Chinese ure said to have carved litters on blocks of wood and stone; but the invention of printiag in its present shape is of Europeran origin, and probably due to Laurentins of Hner. fem, improved by Faustus of Meniz. Gintemberg, Schoeffrand oth re, during this prriod. It is said of this in. estimable discovery - one thromgh the means of which the moral elements of the world were to he revilutinnized, and the nariral slements devel.ped, that it wis brought alnost it ouce to perfectio', that the first printing dine four hundred years ago, is equ:l to any that has suluce been onne-showing that in the revolution of the whels of Providence, that all the great sclenges and arts, oral language, written lanruage, the mariner's compass, and printing, are all sub rdinate instru. ments, to be wieldell by man, under the direction of a wise Providence, and for wise ents. By the first, oral language, man has held converse with his God, nud with his fellow man; by the second, written lanyuage, he has beell enabled t., write the commands if God "ir. a book," and by means of $\pi$ hicb the transactions of the world are received; by neans of the third, the Compass, the commannds of Heaven are being pronulgated io the most distant and benghted corners of
the earlh; and by the fourth, printing, copies of the sicriptures, and other gool works are so multiplied, that "ho who tune may rond, and he who rendo may underrtiard."
In concludug this article, which brings ne down throngh sixteen centurees if our era, the read $\mathbf{r}$ will observe that we have not particularized the discoverice made in nhstract acience, the solntion of particular proderis in mathrmatics, astronowy, und other branthes of knowledge ; wo have avoided this cunrse us uninleresting to the general reader, and liave confined our remarks to the more leading point of nutoriety of the periods.

One thing, however, we have not failed to ohserve, in tracin! mankind through ull the mututuns to which our race have been subjectud, during upwurds of five thousand years-1 hat the mnss of society, the pessantry of the world, have remained uninstructgl in reading, or alphaherical writing, in a woril, the prasantry of the woild, with few exceptions, have remained ingross ignorance.
The inhabitunts of Great Britnin, now so famons for their high s'ate of socinl, mural, and intellectual culture, were, two thousand years ngo, and for centuries after, in a state of barbaric heathenism. North dmerica, now the land of civilizition, education and frectuo, was, in all probability, twn thusand years ago without an inhabitent.
The nations of antiquity, as such, have passed "way ; ccuuots of their sayings and doings, the ir scances and arts, their great cities, and their literatur", are left in vague histury's keeping ; hut Great Bitain and North America, the furmer anly mentioned in early bistury, the latier unknown, are aow t, etwo gent centres of civilization, mornl and intellectual refinpment; they are the centres, to which the descendanls of those once renowned nations of antiquity are now tooking, for relief from bondage, opprespion and ignorance.

## The Age of Novels.

 ho rendo , which en centuI observe ized the acience, l, eum in id other ve have resing to onufined ng pointohave not maskind tu which 1, during ars-h hat santry of "struct gid riting, he willd, remained

## Britain,

 s'ate of tual culears "go, state of America, education aha bility, out an in-as such, of their nices and heir literhistury's and North mentioned unknown, res of ciectual reentres, to hose ance ty are now dage, op
bulistic, and nll knowledne filled with нupertition.

We ne told. in the classification of movels, that these are to be folund, those that interses, and those that in. struct; we have not met with the lonter; whle the lormer, frem the prevaling faste of the age for lite rum mance is very abundant.
The toste for novel-reading is untirely different from that for stamiard works; in the furmer, wher, what is called a good moral cannot be pricured, those of an inferior grade will inn; In other worls, a taste for the higher order of novels hegels a taste for the lewrer class; it is quite different wiht regard to standard "torks; our rading these remarks, even thase of the most cmmon place class, a relish is obtained for thnse uf $n$ higher order ; or, in ther wards, like brgets like. The nuvelo which are must gencratly sought after, are howe hant porsess the grentest ammant of dreaming ionsente, and whase $r$ al weakness, mi. rally considered, is their highest ecmmendation.
Onenterng a stationer's shop the first hing that presents itself io the: beholder is, a table, to use n moden" expressinn, grouning with the most wrelched trash; which deluentes i , the most improper manner, marriages, seductions, burglarips, furgeries, atai deaths; in thetu the most profound enysiertes are empured out of the slenterest materials.

We are told that fiction "confists in the uarration of inaginary inctdents;". and "the difference between the sarrative and the fiction lies in the charac'er uf the incidents they respertively relate ;" ned that "the narrative may be true, while the fiction is created either whelly cr in part by the imagination. And the chain rif incidents on which a fictinn is founded is called its plot."

The advorates of fictious compositions assert, that such wrilings "constitute one of the most important de-
partmente of literature, num that fiedions literature exerts a puncerfinl bifluence on the mornfa mad taste of a ha. timn."
If this pateriul influencs was enst on the side of morality mal truth, "" would rij.jee; but this this powerful influm ce crented by the atnily of the hietinins worke cestant, ie lending o va t portion of soenety into vied, we hure no danht; these works are Glled wih wild legends of by-gene nges, ha roie
 avime, relating th witchen, wizarda, and bohgoblins, and vagories of the lungination in peonerul.
A thint idea may be gained of the extent of fietoon fiteriture now in cibculation, ly ereference t. Mr. Mn. die's Library of Lombon, whet: contaned in $18.8,215,054$ volumer, $87,-$ $\$ 80$ of "1 hisis were desuted th tietion.

And 10, he Athenwum Lobrury, of Jravidenep, United States, consisting of 19300 volumes, wearly one haif (9214 volumes) are derwed to liction.

The love and tantef for fictum in "ir the inerens-nll charses of the reading portion of arecinty are drilting intu its the, and he leweat clome of firelions lifern'min is greeddy sought after und read with delight, it is, in many finmilies, the Bille of the first day of the wrek, and the text-bnok of the otherex.
It must requine minds exalted whove mural infirm ies to digent the roman" iic trush that now fonds many of the parlors und litimices at the day.
It is caill hat nhe age lenves its intpreas upon nllother ; and it may be, that ile Grecian and Mrimun ogn, of fabulistic literature, has left its impress upin the nineteenth century of the Clisistian era. And if we are to go are year nfrer year, jabliahting roBunatic trush, oy thousanda of volumes per annnra, until the end if the nreacav century, what a flund of firrgeries and lies will be transmitted to the ness ce:tary.

## Libraries of Useful Books.

Shourtd be found in every commani. is where a fow momilics are gaintered wigether.
It is admitted that "Knowledge is purre: whether wielded righit or erong. 'That all knowledge shonold be of the right kind, and used in a 1.roper manner, is all-importnnt. Tı sprak of procming an culighteond education, and pruper knowledge of wankind and hings. in theae limes, withont the nid of erod boriks, is simply to tuik ronsense.

Then to procure gatid books and sulifate a l, alit of se ding them, is the toundenduly of every good citizet of the world.
The esta. lishment of tiliraries, connected with comun ties and schools, are of compare tively modern late; and their irffuence upon suctely is be-
ing generally foll. Anong the rase number of work s issued, many are of a highoriler, whils many olhers art entirely unfit fur use ; lint justly fit t'r be cominitted to the index exparyutorius.

Notwithsianding the great number of exicollint works extant, end allinual. Is being is sucd from the press, there is a grent dearth of bnoks among the mass of society. We ofien wonder how it is, that the mase of Provincial society is so mtelligent. when we consider the great want of hooks that generally exists. However, we accouns for ruich of it, on the borrowing principie. and on the conversational powers and onwillingness to communicote, orally or by reading, that zenerally prevaila.
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But thear nida are not chough; ench commanity should have a circu. lating library of sinulard worka, whoro each inember of tha commonnity conlal have liv ille ellectual thirst supplieal. 'I'he want of such librarios if userious hacklenw to the teachers af elemint. iney fechoula. Haviner no lilieary eon nectred with the aclocol, aud fiew or no hooks of his owa, it is :mbossibio for the lour:hir to kerp paco witit tho adrunces ol the are, or do lis elliployers justica in cominunicullut knowledge th his pupila. His harit. ing shoul from h use to house will not be the: means of ailing lisa coperstions in theregehoul roun. In ono homes ho will find n pianco a feir note books, and half a dozeri norels, and perhapis a capy of the Suripturas-llue latier in to perfect a mato tos lo wirrant the conchaion that the novels take the precedence. In another house may be seen hall a doze:l old a!menacsand a few piorures un the walle. In another anme of the juurnnis and debases of the House of lasembly. In another a few old books, the propert! of nome gramb-? real-grandfather. And itl another, no broks al $1 \cdot 11$; and 80 on, Urough t'ie district. Surely, both the teachere and the peupla are to bo pilied. Who live and do in the midst of such intellecural destiturion.
Somu one will prollably hint, that the alove pictuse is overdrann $n$; bui we can assure our rraders that we winld not have much difficulty in pointung to several editions, net fietions, but real editions of our short paragrapli on intelleolual destitution.

Of what incalcirlable benefit would n erond library be ill such a comntu. hity! what an elevation of churactor it "ould inpare tu the peopile.

Albough several hbrarien have been formed in different arections of tho lower I'rovincea, will the want is preal. Once might travel thirly, filly, and nhunost a hamiled mites, withont mecting with a Mr ulnting library.

Aud, in Now Bruns vick, the Board of lialigention has printed cintalop!oes ol broke, and pronnised to aupply liora. ries with the norks namid; but on onguiry, tha books are only to be fonmil th the oasalngues, and not on the sleclures of the Education ()flice.

The lieal of thit departhne:nt, proinised long age. (1) ratataliali boosk ugencies throu thout the different, ant. Hements and towns of thi: Province, where the proprictors of arilonils, and school conimit tes could lie rupplied; bit so farus we can learis, these agencien are few thil far between. And their want, tus doubt, prevents the spread of school litesature, retards edin"ation, and the exteusinut of uneful knowledse.

Ths School law of New Brunswick han now been in uperation nearly three yeurs, sufficient tume to enable its administrators t.s cary its provisions illo execution. We hope that the powers that be will pay a litile more altention to this important mntter, and have a good supuly of usefn! books plared in every parish, or at convenitent distances apart, where the public may get suppisied.

## Map of New Brunswick.

A good Map of New Brurswick, Tova Scotin and Prince Edward Ifland, st owing ther pusition with regard tuCunada and the State of Maine, has long been considered a desideratuin.

Our families, our schools, and our public libruries, ritand much in neved of such a ma;. Those of other coun. tries with whun weare connected im
tuade. require such a map; in fact, th: interests of the Provinc's, boils at home and nhro:d, have long felt the wait of a fullund complete map, on a larireseale, if the Lower Provinces.

But the revder may be induced to nsk, has not New Brunawick supplied tils want? $W$ e nnewer no!

New Brunswick has isvued a map. containing itself, the Stato of Maine,
and a patch of exoh of the Provinces of Nova Scutin, Prince Bdward Selund, and Canads. 'Tlis map) has cost u: over throe thonsand pounda, the half of which has probably been expendel in comptirg a map of Mine, will a portion of New Hanpishire.

While the execution of t'is nap is as good as could be expested, from the inaccurate state of the surveys of the country, still, it is very defective in other respects.

1st. The scale on which it is constructed, is entirely tos small in order to represent the peculiarities of the country.

2d. Nova Scotia and Prince Edward Island, should have been eanlraced, with as much as could havo been conveniently given of the circuajacent country.

3d. T'be price, thirty slillings, is far beyond the means of the mass of
the people, the schools, etc., of the country.

Such are the leading objections to this map. However, we have nur own way of doing things, and probably it is liest to let us alone. The near in in we get up may be of the United States.

We have long considored a good map, detailing the pcouliarities of the luwer Provinces, of urimary importance to our school-going population. Amengat our secular institutions, nothing is more important, nothing would better tend to develope the resources of theys Provinces, and lead those of othrr countries to render assistance. But here we are brought to a stand-still All we have is a small picture of New Brunswick, with a patch of each of the other lower Provinces.

## Goodriche's Comprehensive Geography and Bistory, 1855

This enmpreheasive Gengraphy centains 270 pages, $1 ; 3$ of which are devoted to a description of the world, "ancient and modern:" 113 pages to a description of the Unted Sta'es, and four pages only d"voced to a description of British Nurth America, n country much larger than the whole Union.
Under the caption British Aurerica, it says of the inhabitants-"The whole northern part of Brilish America is nccu pied by tribes of savase's. Further south, in the middle regious, there are numerous trading posta, and bands of white hunters and trappers, belonging to the Hudsm's By Compuny, which spread over the conintry. Alotig the Gulf and River St. Lawreace and the Great Lakes, are the princıpal white set:lements. To the west, from Ireat Slave Lake south to the United States, there are tribes of Chippowas, Pristeneond, Creeks, and other Indrans."
A stranger to British North America would conclude from reading the shove extract, that the inhabitants
consist of tribes of Indians, tribns of savages, and bands of white hunters and trappers. This is the manner in which our neighbours of the Union speak of a territory larger than the $r$ own-a country with antional resources, and the tonnage of whos, shipm ping is fith in :he scale of lie world's mutions. This is t.ee way they speak of a country contaiuing over threse millions ot intelligent beings nearly nu miny as Sarilinia, of Italiun notoriety, or Portugal, or Holland, and more than druble that of Demmark, Hanover, Tuscany, Norway, Maden, or Greece, exclusive fo the fudian and savage tribes. And these three millions of intedigent beings are located in large cities, towns un i villages, surrounded by extensive fertile domair: producing a vast amount of fond for man and beast. I hus they epeak of a country possessing a greater exient of railruads and telegraph lines than one fourth of the trans-Atlantic world, with oll its greatness, a country whose fores's are clothed with a growth of most valuable timber, with mines,
ricl, vast, and varied, with many thousands of miles of seaboard, and rivers everywhere penetrating the conntry f.r hundreds of nies, and one ('he St. Lawrence) for thonsands of miles; a country with spacious lakes, aff rding an iniand navigation not surpassed byany other country on the face of the globe; and a country whose waters tecm withevery vari"ty of the best fish.

If sucaking of Russian America, it siys that "the wiole population is suprosed to be wn thousand, fifteen hundred of whom are Eurupeans, ond the rest savages.'

Now it is well known that the inliabitants of Russian America numb :r severty five thousand.

Such is the kind of nonsense our youth are le: raing; and the Genyra. phy published lig the National Board of Edncation is still worse if pussible; and we conu d refer to others in more conmon nbe io our ( m mon Schools, than either of these work, where the most absurdand contridictury stase. ments imagnatle are inde concerning British Noth America.

All go to show the mecessity of the inhabitants of these Provine slooking afier therr owr. interests, and reporting their own cuuntry, and not leave it to rthers to underiake. A good (ieograply of British North America wnuld be a desideratum.

## Prince Edward Island School Loan.

Abstract of an Act for the encouragement of cducntion, and to raise funds for that purpose, by imposing an additional assessment on land in this island, and on real estate in Conarlottetown and Common, and Georgetown and Common:
Sec. 1st-Authorises the Lieuten. ant Governor-in-Council to appoint, serell pressons to constatute a Board of Educntion, three being a quarum; four quarterly ineenings to be bridd on certnin norice, with suct. other meetings without notice as may be necersary.
2nd and 3rd.-A Secretary is to be apprinted with a salary of thir'y pounds, and ench member of the Board receives lour pounds yearly.
4, 5, 6 , and 7-Provides for the oxamination of District Teachers ty the Board, and their certificates. Classification.--First class to te:ch book-keeping, English Giammar, realing, writiog, stithmetic and geograp hy. Second class, in nddition to the nbove Lrajehes-a'gebra, geometry. trigonometry, mensuration, land survering, nivigation and geography, with the use of the globers, and to prodico certificates of their capability.
8.-Disquaified Teachers may at-
tend Central Academy for six months free of charge.

9 and 10.-Dutics of Board and visiling of schools defined; 1" prepare forms and regulations, extra of Act, Instructions, \&c.; in cancel 'Ieachers' contificates in case of misconduct.

11 11 16.-Refers to sonte minor details, ne regards school huuser, etc.
17.-Secretary to register School Districts—pariculars being sent to him iy the inhabutants or teachers; numler of selool distr cts not to exceed two hundred, withont special sariction of the Government.

18 -Inhabitants to appoint five Trusters in ear:h district atmually, of whom three shall be a quorum-to eximine schocls quarterly, to direct discip ine, etc., und to give cerlufcates.
19.-District Teacher to transmit to Secretary motice of his engagex nent, countersigned by at least threo Jus'ices; engagement to be for twelve months.
20.-In each District a majority of 'Tinstees may assess the inhabitants, hous holders resident for aix irionthe, in a surh to povide books, etc.

21 and 22 -Refers to detailg.
23.-..Visitur of Public Schoole te be ajpoinied, whall write all
fchomls twice a year, fo assint the Board, call mertings of Trustees, report to the Board the condition of schools, etc.; salary fe200 per mnuum.
24.-Board to report to Legielature.
25.-Wchnol houses to be thrce miles apart, except by special act of Gnvernment.
26.-T'Teachers entitled to hliowanco to have 30 scholars, excopt in centain casis.
27 to 33-Refers to mincr dttni!s.
34.-Teacher to krep a junrobl, rontaining hames and ages, progress and attendance if papils-to be open to mspection and forwarded to St cretarv.
36. * * Allowance to first class tearhers $£ 4$, and second class $£$ per annum.
$\therefore$ 37. -'Teachers of second class, if teaching Latin, to receive ten shillings per seholar so tanght, hut not to exceed $\mathbf{E} 60$ in the whole. Returns to be made.
38.-Femnle 'leachers may be employed, at E*30 per annum, to teach female scholars and boys under tweive.
39.-French Acadian Teachers, on produci g certificates, to receive $£ 35$ per annum.
41.--One second class teacher alloned for Charlottclown to receive £'i5, und one first class $\mathfrak{f} 60$, per annum.
42. -Two female teachere allowed for Charlottetown at £40.

43 to 45.-Unimportant.
44. - Georgetown to have one teacher al $\mathbf{£ 7 0}$, and one female teacher at L35.

47 to $4!$-Refers to special providions as to meetings in Genrgetown. etc. Like payment as in Charlote. town.
50.- $\mathbf{E}^{2} 500$ mny he advaneed by Government for the parchase of book: maps, etc., to ber supplied to sehooly monics arising from sale to be again latd out.
52....Allownate of $£$ to District, requiring assistance in building sehool houstes.
53.-All children above fivecutaled to attend district school.

55 -Tlax of one hulf pemiy per acre, or four pence half permy $p^{\text {rr }}$ huudred acres 10 be paid on improvel or mimpro\%ed township lande, in addition to other taxes; two shillings oll every pasture lot in charlothtown. and eight pence per every pasture lot. in Gcorgetown.
56. - Additional tax of one penny per acre nu reserved lands in Royalty of Grorgetown.
57. - Poyment to be mado together with the land tax.
58.-Tax of five shillings additional on dwelling houses, stores, wills, \&c.

The remaining part of the Act refers to the mantier of collectirg the school revenue, and how it is to le appropriated.

## Education in New York.

For this Sta $e$, exclusive of the cities, there were in $1858,11,327$, chool districte; in the several districtstifere were 11,276 school houses, and 262 in the cities. There were $1,238.175$ children betwern the ages of four atd twenty one, entitled to common ill-
struction. The eniire number who attended during the year was 842,137; 26,153 teachers were enployed. The total receipts of the public schools during the ycar were $\boldsymbol{f}^{9} 948.437$. The school libraries contaia $1,402,253$ volumfs.

## Canada.

This Province 1 es betreen the me. ridians 6750 and 90 west, and the narallela of 42 nud 52 north. It is 1300 milns fry in Eisst to Wext, and 700 from Noth to Sonth, and contrins 348,000 sepurre miles. It is said to derve its nume from the lroquois word "Ranaco," signtifiug a collettion of luts. C'muda in a plain stretching from the two ranges of hills, one on the Noith the other on the South.

Late Eme: is 244 miles long, 58 hrond. 658 males in cirrumference, anl ( 65 fert above the lievel of the ocean; 270 fret deep, and 30 feet lower than Lake hurun.

Lake Ontarto, signifying "the thenutiful," is of an eliptical shape, and is 172 miles long; its surface is 230 fert above the level of the sea, and is 100 fathoms deep.

Ifae Champiain is 120 miles long.

Lake: Superior is 360 miles long;
of the Atlantic; the hottom of the basin ta said to te $\mathbf{3} 00$ fret below the sutface of the oconn. It is led by 220 tributury strenms, if which the St . La nis is 150 mules long

Lake Huron is 240 milos long, hy 220 hroad, wid nerarly 10 ano milos in circumference, and from 900 to 10:6 fect drep.

Quebec is 360 milas op the Saime Lawrence, bind the salt water approaches to within 20 miles af the City.

Montreal is 180 miles above Quebec. The St Laverence is navigable at Muntrenl for vesscls of 600 tons.

The Niagara Falls Bridge has 800 teet of a span, and is 230 feet above the water.

The Ottawa River, a trihutary of the St. Lawrence is over 2000 miles in length.
The Victoria bridze, at Montreal, is two miles long, except 150 feet. its surface is 127 feet above the level

## The Pleasures of Knowledge.

"How chnrming is civine philos"phy! Not barsh and crabbed, as dull fools suppose,
But mnsical as is Apollo's lute,
Andi a perpetual fuast of nectared swiepts,
Where no crude sulfeit retgns."
Sospog Milton tuo centaries ago, and lung before that date Plato had announced that "the world is G.od's epistle to mankind." It is the grand book in which all may rean, and whose pagts are so fill of varied intereft and genal knowledge that the being whin, having the power, neglects to study it, sorely way be written duwn an asf, for he deprives himself © $f$ an unjoy ment such as no other pursuit can give.
We are simetimes inclined to be vered with our race when wry find them all toiling after every vinin fancy, fome lent upon one ambition, some anolher, and but a minority dig-
ging in the deep uluine of nature for the grandest of ull possessions-i Truth. Granted that its gold is nos yellow, nor its silver white, for ittreasures have hot the coloni of mas teriol wenlth, but they are as glorinuf and as benuteone as the prarkle o the diamnind aid as lasting as the hills. Seience clothes nut her votaries in purple and fine linen, hut dresses them in lovely flowers or in iridescent shells, and giver as her reward a contented mind and a pure soul. The portry of sciunce sometimes flashes in the oration of a professor or in the pages of a book, but her truest eqe is nritten njon all materiality, whec proclains that in all things there is n lnw which, when known nol applied, shall make man happer, betteraulmore truly human.
By the invertigation of the laws which govern the objects that are all around uf, the molions of the platiets,
the relations of life and health, the dewtiny of man, and the glory of the Deity, are better understood; and the lighting of a rottage, the building of a palace, or the cooking il a dinuer are better performed. We can never be in any position in which know. ledge is nal of value to us, and we can niver prophecy lie mornent at which we may most require it. Indeed ina ny of us only know that there is inore to be known than occurs to us in the daily round of business life, by the discovery that somelfing we do not know is calc:satell to make us richer or give us more ease. "But," exclains many a pelnlent person. "how shall I rtudy withont an insiructor, or how investisate without apparatus?" Foolish untinns! the best workman always uses the simpleat tools. Have you eyes, cars, nose and hands? 'Then you are provided with apparatus, and inemory is the rablet on which in write down your impressions. Each oue of us is bet!er furnished than a college lnboratcry or a profess. ب's lectire ronm, and all that we have to do is to learn the use of our apparatus; aid there is no place in the universe where inan cannot find some object to nterest, some study to fursue Goldsmith found time to ohserve na. ture and record his thoughts, and in glowing language he tells us that " the blushing beauties of the rose,
the modeat blue of the violet, are not in the flowers thenselves, but in the light which adorns them, Odor, sofiness, and beaut! of figures are their own, but it is light alone that dresses them 13:) in their robes, which shame the munarch's glory." As a concluit. ing incentive to our readers to stndy for thentsolves, as well 18 to read bookr and scientific periocitials, we will give a quotation from a lecture. by Prince Albe, t of England. "Man," observes this eminent savant, "is appruaching a more complete fulfilment of that great and sacred mission which he has fir perform in the world. His reason being created after the image of God, he has to use it io discover the laws by which the Almighty gurerns his creation, anil, by making these laws his standard of action, to conquer mature to his use-himself being a divine instrument. Science discovers these laws of power, motion, and trancformation; industry npplies them to the raw material which the evth y'elds us in abundance, but which becomes valuable only by knowledge."

Oh! that all woulil study nature mure, nud think of themselves a little less; then we should indeed be a people of kings, whose empire would be the wirld and whose s'ibjcets would be all created things ! - Scientific $A$ merican.

## Agriculture-1ts Importance.

No one should despise the nccupation of husbandry after reading the following remarks of a correspondient of the Valley Farmer:

Agriculiure is the body, whilst the other prufessions are members; and although the body and members are mutually dependent and retiprocally useful to each other, the body can exist without the inembers much better than the members can exist without the body. For the purpose of compurison, agriculture may be considered as a trade, an art, and a science. The trade is mechanical, re-
quining muscular strength. It is imp-tative-it is tu do a thing as one has been talight to dol it brfure. The ox, in a mpasure, acquires it. He knows his master and his master's crib. He treads the nerustomed furrow, turns rt the headlands, and obeys the driver's commands.

The art implies coopperation of the mind with physical power. The mind contrives; is is a lever which greatly assists and abringes the labor of the liands. Themind, like the soil, makes returne in proportion to tha culsure whieh is bestowed upon it. Both are
unproductive without culture. The mind is improved by observation and reading, which makes it familiar with the best models of practice, and enables it to profit by the improvement tf others.

The science teaches the laws and proportions of incrganic matter-as of rorks, earths, manures, \&c., \&c.; of o-ganic matter, as animals and vegetables; of their structure, food and uses; and the afency of heat, wuter, air, light and e!ectricity, i.. their development and ruaturity; the eniployment and adaptstion of there matters for the be-t uses of man. It coniradicis the experience of agrs and the libours of nations upon these interesing sutijects, and malses them subservient to our wanis and our cumforts. The ecience is a colection of facts and leading truths, illustrated in practice and confirmed by expertence.

Land and labor are the legitimate sources of public wealth. The first, to be productive, must be culivated; and the labor of doing this is abridged by the sulture of the mind, which guides its operatious.

Wuhout agniculture there is no wealth Gold and silver are not wealth - they are its convenient representatives. Cummerce produces no wealth -it simply exchanges it. Manufactures and the arts re-combine it. Agricultare is the prohfic mother of wealch. The rest simply handle it when produced and celivered into their hands. The carth itself, originally, spontaneously produces wherewith to keep the race of man from starving-cnly whilst he is making ready to till the soil. Without it he soon degenerates into a wird animal, living here and there in small squads, a little superior to the other beasts of prey. The earta breeds savages. Agriculture b:3 'tg enlightened nations. It brerus nouses and ships, temples and seminaries; it breeds the manufactory ; sculprure, puntung and mu.ic are its offspring. It would be folly to speak of the existence, or
beauty, or power of any of these thinga, without agriculture.

The oulp $t$, the professor's chair, the scientific laboratory, the tripod, the library, the ship, the trip-haminer, the loom and the anvil -atl would go down in one generation. It is by the cuperabundant produce and rtability of agriculture that all things exist. Nor gold, hor silver, nor diamonds could replace is. The siate of husbandry, in any counliy, is the test of is enlightenment. The thermometer of civilization rises and falls as drives the plow. "You must send the plow," exclaimed a man who had travelled all over Shrissian missionary ground in Leathen lands. A barbarian mation needs hut to be plowed up-deep, subsriled, continued, sowed, planted, and the ineviable harvest will be an enlightened empire. A practical, working agricultural society will dig batbarisu and mental and physical and spiritual povertyout of a nation, as effectually as any powerfiil grıbbing machine will "shake out" the stubborn stumps.

A few renturies ago, a learned writer dearribes the times in these words: "Rude were the manners then; the man and wife ate out of the sumetrencher; a tew wooden-handled knives, with blades of rugged iron, were a luxury for the great; candles were unknown. One, or at most $t$ wo, miggs of brown enrthenware, formed all the drinking apparaius in a bouse. Rich gentlemen wore clothes of unlined leather. Urdinary persons scarcely ever touched flesh meat. In nuble mansions, a little corn seemel wealth"

This is history. Any one of our neighours, if compelled now to live as the highest and wealthest of mankind lived in those days-such a neighbor would excite our syinpathies. We would consider him as good as starving; would carry in gifts to supply his wants, and start a subscription anong our friends to feed and clothe h:a.

A few hundred years ago, and all
the wealth uf a nation could not buy a loaf uf bread, nuch as you will see on anty firmer's table at tho present time. The fine flour coulld not be made. 'I'he table of our farmer is much more princely in its firnishing than wus the table of a monarcli then. We have now in commo uqe several specins of t.mst delicions fruits then unknown. We rai-e several kinds of grain nut then in use. The very word corn, then applied to wheat aud harley, is now applied to a gram then undi-covered. Menthen lived upon a few vegetables, with fisio on x xtaordinury occasions; und ni their sereatest feasts, their chief viands were flush and wine. Their crops, as well as ilt the palmest ancient times, rarely yielded over teur or twenty fo'd.Now a hundred fold is considered a very small return $T^{*} n$, as in the ancioni wirlil, they gatheret the harvest by pulling up the stalks, or by aluost us slow a process of reaping with the sickle. Compare these mrthods with the great reaper now in
use ! that mweeps over acres in an honr, ind leaves the glcrious harvest on the fieids of a furm in a day. Thus, formerly, the patient ux slowly trompled out the grain, week after week, and the wimla of heaven und the fan in the haside of the laborur elowly and imperfectly separated the kranel from the chaff and straw. Naw, the mighty threshur, with tumiltnons whirl, takes into ats crusning tecth thecusands of sheafs in a diy, and scatlering the emp:ied heads, nud siraw, and cilhff, in rich streams, the sefarated golden grain rushes out upon the ravished sight, all ruady fur the marts of trade -for food for man and fowl and beast, and for the hopper and the stones, swiftly driven by the vast and ponderous wheel. From its uighty pouch comes out flour white as the driven snow, which makes the kneaded bread beiter than tlee labled ambrosta of the guds.

In short, Agriculture chotires allAgriculture feleds all.

## Agriculture in New Rrunswick.

Having within the last few months made a hasiy tour through a portion of Westeru New Binnswick, we were struck with the sloggish and languid a!pearance which agricultural nperations evorywhele presented. And in answer to he " why is it so P" we were repentedly told that New Brunsoxick is but worth living in, and is not capable of su-taining, howev ar well cultivanded, a populatiou r qual oo the inost inlirior state of the Uuion With this Idea of the capalilities of this Pro. vince, we are num preprared to coincide. On ucomparison of Ayricaltural sla-. thotics-New Brunswick with m:chy of the $\mathbf{S}$ ates-it is evident that we fir exceed, in the growth of potatoes, and many of the or reals, espe ially of oons; and it only req wes mhlusur, sistem, and the expe doture of a monty of the canital expen er in shiphmidnag and wher pur-unte, to ruike Now Brunswick nut enly self-sustainnt,
but able to sustain several million of inhabitanls, and compare favouraily with inaty of the best Agricultural States of thre Uniun.

We nre alscctald, that the annual emigration from the l'rovince, to Califorma, Ausiralia, New Zealard, Fraser's Riv r and the Western States, far 'xceeds the emigration to the Province.

And it is also suid. that a large portion of the sons of Farmore are abanduning apricultural oprat ons, and either leaving the country, or poctuing stantion in telegraph offices, clerkshps in stores, or situations i" the public offic's of the country.

Such, we acknowledge, is true t.o a very great extent. But that these thongs tell arainst the agrisultural capmilities of a country wedo not behave; but that. they dut ell parerfally ag inst the kiad of elucaton, or no educahion, farmers give ther soms, ma harvest Thus. tramp. week, the fan wly and el from mighty l, takes ands of ng the chinff, golden avished f trade 1 beast, stones, d pon ponch driven I breand of the
the want of interest taken in agricultural pursuits, we firmly believe.

There is a spirit of novelirm and restlessness abroal in the conntry; there is an eagerness to accumulate weoltt: in a hurry, and without putting the hund 10 the plough. There is an idea abroad, that $n$ farmer's life is not a respectable one; hence farmera cannot be gentlemen, but slaves. There never was a greater mistake; for if there are gracues in callings, the honest and mielligent farmer must atand at the top of the scale. Those young men who thiss talk and act, entertain a very mistaken idea of the qualifications that constitute a gentleman; they seem to think, that because farmers generally do not wear braadcloth and starched cullars every day, and sit in offices, where the sun will not shine on theon by day nor the moon by night, that they cannot be gentlemea; they sbould remember that "its not the coat that makes the man."
Tinese mistaken notions, nlong with the wonderful dreams, of the gold uf distant reguns, which seein to ris. in vision befirn the mind, impels many to leave their homes, the old furms un which their fallers lived comfortably, and their early assuciations, and undergo untold hardships, in order to secure a portion if that which not more than one in thirty or forly ottain; and what may bestill worse, they may suffer the loss of health and character, and my be life itwelf.

As circumsinnees change, so shuuld our educa'inu also. The dignity of labour should be thught in our schnols and colleses, mind in our domest $c$ and rural \&.vocations.

We bive many other back-draws to agrisultural 'deansement. This country is not sufficien Iy advanced te keep up a complete division of labour; hence, many of our mechanies, especially in rual di-trie's, have to curn their attention to varlous parsuits, a mong which is agriculture. In a doti n, we have a large, camparatively considered, th athy finmlat on, cinshating of lumbermen, fishermen, ship
carpenters, rallevay navies, anil othern, who at one time fullow their favourite pursuits, and at other limes frrm a littlo, if farming it car. be call. ed.

In addition to these draw-backs, perhaps, there is no country where tione is thoaght so linle of, as in New Brunswick. Go where you will, and you sie uble bodied nien luunging aboilt, and not warking half iheir time, be ides stoals of boys tunning about the streets and public pleces chasing, one wou'd suppose, the winds. In: fac', it is very doubiful if one half the population is frofitaoly employed.

In place of agriculture standing first ainong the pursui's in the scale of impartanca, it is generally considered seconciary.

But the time is at hand when necessity will compel us to turn our attention to the caltivation of a purtion of the vast tract ; millions of acres, of grod land that still lie in a wilderness state in New Brurswick.

Wis have got tul learn, that in order to farm woll, we have git to give onr yooth a good agricultural educationsuch an education as will enable mar farmers tu stand on an equal footing with those of ather proferstons. The loltiness and importance of a pursuit, is generally estmated by the diguity of those who follow ir. Hercer, it is said, " as the man, so is his firm."
lo farm well and proficably, requrer the exper ditwe of capital. Hore no une thinks of exrending thoney in agiteultural operitions; white thon-ands of pounds are liriquenly expended in the construsion of a single slip; but. to expend a sumilar nmount in agriculiuril operation, would be almost considered a waste uf money. If a farmer lays up a few hondreas of pounds, w.ich be way easily do withaut lise expenditare of mach manas, he generally lels it out to interest, a six per cemi, or lociks it $u_{i}$ ) In his chesp, sol thal it may be at hand when his neighbour's $t 11 \mathrm{~m}$ is for sle. And when he adds "farm
o farm."-he has so much land, that he cultivates none aright. The old inotto,
" A litt!e house well filled, And a little land well tilled," is lost stght of.
The following article from $n$ Currespondent of the Genesec Farmer, a soonthly, which should be in cvery house in the Province, mects our view:-

## on tile importance to farmers of

## a good education.

Eils. Graesee Farmpl: :-.I consider the great want of farmers at the present time ub a good education. The importance of this will hardly be questioned. Very few farmers have enjoyed the advantuges necessary tu qualify themselves thoroughly for their oc:npotion. A few years ago, the public opinion on this matser was quite differeat from what it is now. Still, there are some wh. need a little waking up on the sutiject. There was a time when it was thought that a farmer needed only a pair of bands and streng'li to inse them-the liead beng of litule comsequence. While the buy who was intended for a mechanic, a merchant, or a lawyer, was sent to schoul, and allowed every upportmity for improvement; the one designed for a larmer was kept at home at some kind of drudgery. He needed only to know how to work. That was to be the husinems of his life, and what need Whs there for hun to learn grammar, or algehra, or geometry, or philosor phy? In this way his self-re:pect and respect for his occupation were de-
stroycd. He was never encouraged to think. It was enough for hmm 10 know that his father dids so and so, and he wus to do likewise and ask no questions. Is it any wonder that he should make a dull man and a "bungling farmer?"
Now what I want to say to the farmers of ahis councry is this: Whatever else you fail to do, don't fail to give your buys a good education, and especially those that are to become farmirs. Take some pood agricultural paper, and give your boys time to read it, as well as some time for annusement, remernbering that "all work nnd no play make Jack a dull boy." Let thein know that a true firmer is as much of a gentleman as the law yer or the doctor, and smmetimes more so, although his clothes may not be so fino, nor hia hands so soft. Do not suppose that becanse your son is to be a farmer he does not need a koowledge of all that is taught in our common schools and acadenies. If he dons not need to use shem in his business, the study of them will improve his mind and not only teach him to think, but to think methodical'y and coriectly; and what is uf quite as much importance, he will not feel that he is inferior to his neighbor whose occupation is difterent from his own. It would be far belter if the choice were to be made between a good educa ion and a good farm, to choose the former. Now alinost any farmer can give his son 3 each a gond education, while few can give the farms. Let them have the farms, if you can, besides.

## Soils.

Alluvial Soils.-Of those, we have first, red marsh; secondly, blie marsh, low marsh or corky dyke; and thirdly, intervale.

1. The red maish, though vary ing somewhat in quality, is the best soll in the Provimer, and much of it compares favorably with the most: celebrated alluvial soils of the old
and new world. The following analysis of recently deposited marsh nud from Truro, will serve to shew the composition of this kind of suil.

## Moisture,

Organic inaller,
$\left\{\begin{array}{c}\text { Chborine } \\ \text { sooth, } \\ \text { Sill }\end{array}\right\}$ as common satt.
Soluble Porasis,
Water. $\left\{\begin{array}{l}\text { Sulphuric Acid. }\} \text { as gypsum, }\end{array}\right.$
Water. Lime,
Almming,
Magnesia,
tıo


It will he ohserved that, in tho above analysis all the substacees previnusly mentinned as contatiuled in ferile smils, are present. This marsh mud ia 1 mt only a valuable sull, but is carte-d on upland as an excepllent maulure. When we take this fact into conneetion wihh the circumstance that 87 per cent of the whille is unly slliciouns sand and that oully one and a half per cent of organic matter is prescint, we can ap. preciate the vast importance of the substances connailed in it.
Such s,sil requires nij foreigu appliances to renderit ferile. It has however one weak puint-its suall prupurtion of phinsphates; and I enspeect. Hat if there were nut necusionnilly pres"nt in it, fragments of fish lwolles and wher similar organie maturs which don not appear in an annusysis, this deficiency would anp par in a sumew wat rapid falling off in its proluctiveness. It is certain, that the hest varielies of thls kind of sivil will bear continued croplping willuyut manure for a very ling perind. It is humever also certann that it gradually runs oul, and the owners of the older marishes already have oceasion to inquire for the means of restoring iis productiveness.
Drainug is well known ta be essential to the ferililiy wf it:e marslies, and there are in this Provinee many valu. able traatis of this lan! in a cminparatively useless condiuiun fiurn is neglect. Admitting the sea; water to depisit new mul, is also a well kinwn remedy in the case of filing, or nalthrally pour marsh. It is attended however with the seri,nss disa, vantage of causing the hoss of severn! crips.
It seellis proballe that in the deener kinds of red marsh, subssil or trench plungting might prove very advanliageous after the surface has been sumewhat run sut. There can be no duybt however, that in the heavier binds of
marsh, it would require to be accompanied liy very thorough diainnge.
It may ntso be deserving of inquiry if the tithe drains would be mone eerviceqbie than the upen ditches in onmmon use. Titles coull be very ensily and ctieaply inade of the marsh mud iself, and when mee lain, whull require far less attention shan ditalies; ant cnuld be taid in any direction, and in any nuniber, withut inerfering with the "orking of the soil.
Lastly, the composition of the mmryh mud indicates that the application of bone-dust would prihably lee atbinded. with the must marked resnlis, parliculaily, in increasing the ce- lannly of grin crobs, and in pridning the more valuable kind of griasses-Gimano wnuid have a similar effect: holt a gnod dresving of bine-dinst winld be imure permanent in its effects. I whuld remmmend to owners of puor or worn ont marsh. to try the experiment, and calcul-te from the increase of emps, v:hether it wonld not be remumarative.
2. Blue marsh, sometimes called imer marsh, luw marsh, curhy dyke, grey marsh. This forms the subsmll of the red marsh, and generally m:mors in a belt almig the inmer margin, nexi the upland, where the surface is biwer than the onter edge, in consequemse iff the tides deposining the coarser mud near the channels, and finer mind in sualler quantity near the upland. In those parts of the Piovince where the tides are only of ordniary height, all the inarsh that exists is either of this kind, or hoggy uarsh, compursed a!most entirely of vegetable maller. I he blue marsh nsually contains mmre vegetable matier than the red, and as. suines the character of a noggy suamp. It emits a fend smell when recempy tirned up, and the water mzing irum it usually stains the ground with a rusty culnur. It has the appearance of being a rich soil, but, thungh it produces, in its notural state, crips of coarse grass when broken up, it is of litle value.

Its chemical composition ghes the
true ranson of its comparalively worthless character, and a'so suggests a remody. The vegetalile maitor press ent in this kind of marsle asting on tho taguant sea-water, has lecoinposed the sulphate of soula, of which a small quallity is present in the tide-water, and has spi free ite sulphor, in the form of sulnhmretted hydrogen, which acting on the axide of iron in the nud, converts it into sulphuret of iron, and changes its colour from red to prey. Tie sulphuret of iron remans unchanged, while submerged or water. soakids but when expused to the air, it passes into sulphale of iron or green vitrel; a substane poisonons to must oultivated crops, except the oat, which can put un with a little uf it Hence the had efficts of disturbing the Whe marsh-hence also the rusty colour of its water. Land ill this state canll be easily tested hy drying a small pirce of it and making it red hot in the fire; on taking it ont, it will be fornd to enit a sirung sulphurous smeli, nad on cooling its red colour will be found in be partially restored

The remedy is draining and loming ; and such lnnd will nsually stand, withoot injury. a hoavy liming. Diain:"g admits air and takes off the *aline water. Lime decomposes the sulphate of iron, and forms sulphsie af lime and uxide of iron, both nsefinl subslances. The cause and cure of the bloe marsh thus involves a series of chemical clanges; the last of which may he represented as follows:


When the blue marsh is tool law to admit of proper drainage, the ouly mode of imploving it is 10 di, $t$ enches to the tide channels, and thus admit the muddy tide water lo deposit "wer
it a cont of red mud. Both of these muthods have alreads been employed with success in sume purts of this Pravince.

Tlonugh the blue marah is by itself so un ridustive, yet those varieties of it which contain a gand propurtion of vegetable nulier, when diawil out and composied wilh line ar marl, form an admirahlo top dressing fur upland grase.
3. Intervals or fresh water alluvin in oecnrs aloug most of oar rivers, in variable qu mility and quality; but is gentrally a fine and priductive suil. It requires the same manageo ment with npland soils, and except Whare it has a lonse gravelly suhsoll, wonld uftell he improved by draining. It is lamenable 111 see, in the older senlements, su mons of this valuable soil alonost rnined by an exhausted system of eropping.
It is worthy of notice that ever since the first riliivation of the alluvial suil of the Euphoures and the Nile, irrigation hy running water hns been found bu be a must ifflcient means of promoting and restorng the forlhty of this kind of lanul. Mony of ourdinerviles are ammelly orenflowed by freshets, and somelimes wiht very injurions resulis. Bat it is a mater deserving of inguiry, whether a regolar and systematic athnissi. 11 of the water of the rivers and the mitutary lirmoks, might not repay its experse, hy its henefi ial effects on the crups. Muddy water let in, in :his manner, would not unly topdiess the soll, but tend 10 plevate it nouvos the rench of the freshets, and even clear water flowing genly aver the sorface for a limited tin e, is known to be hinhly fermizing, thongh the theory of its operation is not well un. dirstion.

Sume usefil facts on this snliject will lue found in Jackson's triat se on Agricultare and Dairy Husbandry.T'imes Mayazine.

On Coating Seeds with Manure.
Several letters have lately appeared Innald, a merchant of that city, $\mathrm{d}^{\ominus-}$ tha Glasgow paper from a Mr. John

Runald, a merchant of that ctiy, $d^{e-}$
tuiling the result of several exper of this nductive nanage1 except subsoil, training. te ulder valuable xhausted ell found promoty of this therviles freshe'ts, ions rerving of sysiemr of the s, might onefi:ial water let inly toplevate it ets, and uly uver is known Inh the well un.
ments he had made by steeping grain in liquid manure, so as to coat them over with it, previtus to their hring sown. He slases his plan in bo til make every seed carry with it io its bed $i$.s the suil some goul inanure, which has an inmediate offort un the gruwih of the plant, and griatly increases the crult. 'J'he experimentm were tried un same smull phata uf land neur Glasguw, and the inanures used were a solution of lime in water a solution uf barn manure, fiwls dung and water, the denosit chinained fiom cily sewer ge, and a mixture uf soot alld "ater. He does nul siale which of these mixtures was the most enccessful, but gives the merease frum 20 to 35 per certoper aeed not so prepared. As an rddition to eilher mixture he recolnmends a small quarticy of ugar, and lie pruceeds to show tha: bauharine malier is an ingredient in wheat and wher grain nond culimbites mainly to the on-urishonent af the youlig plant. An experiment winh giana was not successiul, but few of the seeds germinating.
The mude of applying the liquid is as folluws:-Take a ub aluint 30 inches user ond 20 deep; empty inso it a bell (hur bushels) of wheat; take tw" pluunds "f rugar, bruise uny lumps there may be in it. and sprinkle it oll the lup of the seed II the tub. Take another smaller tub, put into it six galluns uf water, and mix sum with it unoil it is as thock as guod cream-a man rubhing the sumt and water against the side of the tub with a stiff hromm will mix it in a tew min-ntes-then with a jug disiribute the colution sluwly on the tup of the sugar
and whast. The liquid will then he about twol inches abuce the top of the wheat; suir the whote whith a wroden ladle several times within the first fintr hours, but not after that; lat is romain in the soluticu not le:a than 24 hours, by which time the seed will have absorhed all the liquid, and als thuugh in a damp state, it will be reasly for sowing ; hat if the weather is nit favorable, the sered nung be left in the manure fur firty, fifty or sixty hours, eviry seed will thin be black with sout. Other manures and wher grain lo be trented in a similar mane ner. The whole of the seid thene prepared se:it up a large number of stem*. Froin ane rum, the seed of whicl was cuated with lien pen, there were - cars, the priduce being no+ leas thun 1100 grains, but it was un parden ground and grad suml. Of the plants of whent sent up, nit ane wis thrown uut of the ground by the alicrnate frosts and thaws of winter becanse the ronis were large and had a goud hould of the griund.
The plan was afierwards tried on the csate "f the Farl uf Eglinton on a larger sc:ale. The wheat was coated with noot ard sugar aud the results were that the grain appeared sooner it ullered better, it cuvered the c'od sooner: it grew mure luxuriantly ; it burst into ears suoner; the flower on it was earlier; and whea clit it produc d fully une fifth more stucks than the rist if the field.

Beins and wras treased in the same mamel gave 47 fer cent. greater increase than the seed sown without the coating of manures.

## Literature.

"The Guardian" is the tille of "a nonntily Magaziue of Eilucatlou und Generul Luern ture," ulitea by R. Aitkill llad E. Maniligg, st. Joinn, N. II.; printed by Barnes \& Co. Price mue dintar.
The virinus hitictes comprised in the work. January Numler, are ornate in lithuaze, and present elit ram milg delintel oll if lif puts
 ditor- every success.
"How in lise and Breathe;" a monility Magazine, pullisited li Buston; edited by Moses Biow II, M. D. Prica ba

This work contains muny useful hints on the iestaratuon autil presprvition uf health; it the iestaration and prespry
should heill evely linully.
The reanikn un New lirussyick are to the poilt sucy remarks pultished in a fromen "ulutry, liy inr w lio "satw anillieari" for hisirell lend li, pilpetuale good lechiner, and luake $\mathrm{ht} \mathrm{h}_{\text {w }}$ w u ur vait unt viried resuirces.

Auy of nur indecs desirons of procuring elller ur buth the ature natad wirks, - we Wilt t:ike pelstion if forwaiding their suk: scintions and ordening the wortg.

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