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#  <br> for nova scotia, new bitwswick, and pringe EDWARD ISLAND. 

EDITED BY - - - - AEEXANDER MUNRO, Bay Verte, New-Brunswick.<br>All Commanications to be addressed to the Editor, post patd.

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

In a former article under this caption, we attempled to show the state of aociety w'th reference to literature, during the first four thousand years of the world. We now propose to trace the state of literature and clementary mstruction during the first sixteen centuries of the Christian era.

If our object was to detail the wars, bloodshed and devastation, that the pages of ancient history present, our task would be comparatively easy ; but to trace the character and extent of useful knorledge, is a herculean tash. We have seen that the world, Jerrish and henthen, had sunk deev into the depths of darkness. The schools of Greece and Rome, thouga few in number, and limited in their operations, compared to the wants of the pcoule, were now dwindling into insignificance; the teacnings of the Jewish Doctors and Rabbis, were mixed and interwoven with the teachings and custams of the heathen nations; the "schools of the prophets," were not succeeded by schoois for the people: in a rord, all things truly moral and
intellectual lay prostrate at the feet of ignorance and heatheniam.

But a new era was about to darmthe old, with its long train of types, shadows, cymbins, Horgeous appearances, and external forms-mixed as they ultumntely were with those of the heathen nations, were $2 b$ at to pass away; and the day-star now begnn to rise in the midst of a morally an. $!$ Intellectually backward world. The fiat, piedicted by a long train of proe pitets, was now about to be executed; new teachings, new light, in a word, a new dispensation was ushered in.

The New 'Testament Scriptures, like that of the Old, is generally silent on the subject of Education; the principle adopted by our Saviour and his Apostles, in communicating knowledge, appears to have been by oral teachiag. In isuth, this appears to have bren the genoral mode of communicating knowledge, until a very late period of the present era. -The teachers, under the Jerish, and at the introduction of the Cbristian Dispensation, having been commission dedi-
rent by God, to publish good news, did not require to be taught in the schools of Greece, in orter to comminieate the will of Heaven to tallen man; neither was it necessary that th se who were privileged to sit at the feet of inspired tenchers, should be instructed in Phinecian or Grecian Literature, in order to understand and follow the truth.

But when a full and complete revelation of the will of Heaven was given 10 man, it became, ass in these times, necressary that every son and daughter of Allam should tsa able to read and understand the Scriptures.

In aescending the siream of time, we find that with the exception of the first two or three centuries of the Christian era, which was illuminated by the rays of Gospel light which were shed upon mankind in Apostolic tines, that darkness agalin brooded over the moral elements of the world, and the true knowledge which had been freely bestowed, was almost agan extinguished.

The teachings of the Apnstles began to be lost sight of ; the Roman empire abandoned every legitimate means of educating and cultivating the minds of hor vast ponulation: the literature which she had translated from Greece began to decline; conquest became ber mott"; until the division, and ultimase subdivision of that once powerful empire took place; when she was over-run by hordes of Noithern birbarsans, who in their nadness of:conquest, extinguished even the few gleams of intellectua! light that had been permitted to shine, though din15.

The inslitutions of a country once laid prostrate by war, and the kindred evils connecled therewith, overshadoving the land, it requires cemuries of quace, and soctal, moral, and intellectual deyelopment, before it can arise out of barburi-m and ignorarce, into a state of moral and in'ellectual refinemern. The human mind does not pass at onse from a high drgrce of intellectual eminence, like that to

Which it had attained during the bast days of Grecian and Roman History, to an abject state of mental cartivity, like thas to which it was reduced during the Middle Ages.

We find litrrature taking its rise in Judea, utruduced from thence into Chaldea, where it was cultivated for a time; this naton was overpowered by the Babylonians, the Ba'synniars by the Assyrians, the Assyrians and Egyptians by the Persians, the 1'ersians hy the Greeks, the Greeks by the Romans, and the Romans by the Narthern Barbarians. During the best days of these several empires, literature made considerable protress but only for a tme; every chanse in the state introduced a change in the state of literature; during peace knowledge increased, but only to be destroyed by war. We have nosv arriped at the period of the drcline in literature, which was gradual though rapid. The causes by which this revolution in literature was rffected, were numprous. The destruction of the Alexandrian library, where were deposited the intellectual trensures of centuries; the disorganizen state of suciery; the rise of Mahomet, who destroyed all the works of the ancients within his grasp, for fear that they would di-agree with the Khoran; the the prejudices entertained by many of the fathers of the Christian Church against heathen literature ; the progress of superstition; the ignorance and vices of a large portion of the cleigy ; the setling up of the remaining works of the ancients from the mass of society in monastic instilutions, where they were forgotien; the general decline of manners, and the exclusion of the linit, however exa ted their station, from the advantages of educaion, and means of inteller:tual iuprovement. There were minyother collateral rauses for this decline in useful lnowledge, but the ab.ve will suffice to loid the read. $x$ to see the stitu ot soctety at this priod of our historv.

S •ill an the midst of all this decay,
there arose ance in arlile, men, eminent in scholastic attainments; during the firsi few ceaturies, there arose not less thin torty, the halffor whom were fathers in the Christin in Chareh, who figured as scholars, and many of them as writers; and during the time that rilapeed between the fourth and sixteenth centuries, there existed upwards of fifty, who figured in the walks of scientific research.

We have sean that during the reign of Mahumet, who acted as a prophet, warior, general, and conqueror, who su bdued the Enstern world, the world of the ancients, into one rast empire, the Saracence, that literature was almost blotted out of existence; and it was not until a century after his de ith that the Arabians began to ristore the literature of former ages. Thrir writings may be divided into the imaginative and phi'osouhical ; the former of native growth, and the latter of foreign translation. In the latter, they were but the disciples and copyists of the Greeks. Howevrr, the literature of Arabia, which never rose to $\varepsilon$ very high standard, rose 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 confared to the Abbegs and Colleges, previous to the reign of Alfrei, the hero of fifty-six bat les. This monarch did, says lussell, abuut the yrar 893, "establish schuols for the instruction of the ignorant, and יnjoined by law all freeholders, possessed of tro hide. of ground. (abuut cwo huudred ncres) to send their children to school; and he gave preferment, either in Church or Siate, to such only a3 had made some proficiency in knowledge.". King Alfred was a close studer:t hinself, and cיrmposed many usiful works " to lead the untarored mind to the love of lettore, and bind the heart to the practice of virtue."

At this period some other narions continurd to encourare Uniwrrsiv education to a limited extent; but the
mass of society could neither read nor write.

Charlemagne, also, took an interest in the education of the people, and established schonls for that purpose ; but the schools established by these two monarchs soon dwiudled into insignificance, su far as re?ated to the instruction of tho cominon people. Learning at this period was concidered dangerous to true piety. The Istin tongue, the principle medium of erommunicanon, was but inperfectly known -and the scarcity of parchanent, together with the expense of trunscribing. rendered bonks so extencively dear, as to be only within the rearh of a few. The effect pioduced by the establishment of these schonls, were soon obhterated, and intellectual darkness again covered the earth, so far as the education of the perple was concerned, and any advances made in literature, ur:til the invenion of printing, were confined to a few individuals, and to a limisa number of subjects, connected principally with the mathematical science.

We are indetted to the Arabians for the intriduction of Algeb $\cdot \mathrm{a}$, Geometry, Trignometry, Astronemy, Nazu-al Plilo ophy, and especially for many distoneries and impr.vements in Arithmetical science. From Arubis, thia thirsi for literature extended into Eurupe; and in the twelfth and succeeding centary, there arose geveral Mathematicians and Astronomers. At this time the minds of the mass of scciety, throughout the world, were grossly ignorant, and literature was entire'y expelled from Greece and Egypt, its ance great depositcries; and now Arabia and Europe began to light the lamps of science. In the latter we find the invention of the Marmer's Compass in the 1 welfth, and Printing in the fifteenth ceriuries, wrere among the great advancements of the age.
The attracting nower of the loadstnne seams to have heen known to the ancierts in $v$ ry remote periodis; but its application to the purposes of
navigation and surveying, appears not to have heen known previnus to the middle or close of the twelfin century. The English, French, Italinns, Germans and Chinese, all contend for the honour of this invention.
Po whom the lionur belongs, it is diffirult, and probably impussible, to determine; but its effects or the destinies of the world is stereotyped upon every movement of suciety; by i: an intercourse with trans:harine regons, either for purposes of crm merce, benevolence, the extension of moowledge, or the spread of (Thristianity is obtained; and by its means the oeography of the globe and its subdivisions are ascertained.
The anclent Babylonauss and Chinese are said to have carved letters on blacks of wood and atone; but the invention of printiag in its present sha $x^{2}$ is of European origin, and probably due to Laurentius of Hace. lem, improved by Faustus of Mentz, Qutemberg, Schoefficr and oth re, during this period. It is said of this in. estimable discovery-onr through the means of which the moral elemente of the world were to be revolutionized, and the naiural elements devel.ped, that it was brought alninst at once to perfection, that the first printing done four hundred years ago, is equal to any that has sunce been done-showing that in the revolution of the wheels of Provilence, that all the great scrences and arts, oral language, written lanruage, the mariner's compass, and printing, are all subrrdınate instru. ments, to be wielded by man, under the direction of a wise Providence, and forwise ends. By the first, oral language, man has held converse with his God, and with his fellow man; by the second, written language, he has been enabled to write the com. mands of God "in a book," and by means of which the trassactions of the world are received; by means of the third, the Compass, the cominnds of Heaven are being pronulgated to the most distant and benighted corners of
the earlh; and by the fourth, printing, copies of the sicriptures, and other gcod works ore so multiplied, that "he who iuns may read, and he who rendo may underrsiand.'
In concluding this article, which brings us down through sixteen centuries al our era, the rendrr will observe that we have not particularized the discorpries made in abstract science, the solution of particular problems in mathematics, astronomy, and other branches of knowledge; we have avoided this conrse as uninteresting to the general reader, and have confined our remarks to the more leading points of notoriety of the periocis.

One thing, however, we have not failed to observe, in tracing mankind through all the mututions to which our race have been subjected, during upwards of fire thousand years-ithat the nass of socsety, the peasantry of the world, have remained un:-structeld in reading, or alphabetical writing,in a word, the pr asantry of the world, with few pxceptions, have remained in gross ignorance.
The iluhahitants of Great Britain, nor: so famous for their high s'ate of sociai, mural, and intellectual cultuse, were, two thousand years ago, and for centuries after, in a state of barbaris heathenism. North America, now the land of civilization, education and freedom, was, in all probability, iwn thousand years ago without an inhabitant.

The nations of antiquity, a3 such, have passed array ; ; counts of their sayings and doings, the ir sciences and arts, their great cilles, and their literature, are left in vague histury's keeping ; but Great Bitain and North America, the former only mentioned in early history, the latter unknown, are aove tie trongreat centres of civilization, mornl and intellectual refinement; they are the cenires, to which the descendanis of those orce renowned nations of antiquity are now looking, for relief frum bondage, oppression and ignorance.

## The Age of Novels.

Ancient Greece and Rome had their ages of fahulotrs literature, ages in which those nations were deeply sunk in vice and gross superstition; so have twe our age of romance; and if the are not 80 depply sutk in vice as the nations referred to, it is not to be attributed, by any means, to any real worth these productions prossess, or to any power that romantic liternture iuherite, with regard to the elevation of uur race. Our facilities for spreading either good, or pernicious works, or both, are ininitely gieater than were those of the ancients.

But it may be said that our fiction takes a higher stand-point, morally considered, than did the fabu'ons writings of those effeminute nations. In uther words, we have ascet,ded higher in the scale si motat truth, and have not descended quite so low in the seale of vice as those once powertul nations did. But that we have descended is heyond dispute. At the resturation of letters in the Gifteenth century, ous forefathers of that age did not indulge in mmance, but on the contrary, a solad and bold litera. ture was introduced in company with Chrisuanity; sound knowiedge was the native growth of their own minde, fostered and propagated oy infuences, which superstition was net able to sainsay or descroy.

The restoration of literature accompanied the revival of Christianity. Christianity never was in any age onsiafied to ga hand in kand whe enythical or rumantic literature. In no age of the world has the gerus rocel bren more plentifully produced and closely ztrewed ibroughout the vorld, than in the present; and few are the vices of this age that hive assumed a more proninent fcouthold on the mind of aociety than that of norel seading; and were it nut for the counteracting infuences-the spread of hable ruth, we should be strongly impressed with che fact, that society wouid return to the ciage, when all literature was fa-
bulistic, and all knowledge filled with super-tition.

Il e ate told. in the classification of novels, that they are to be found, those that inter st, and those that instruct ; we have not met with the latter; while the lormer, frem the preralling taste of the age for the romance is very abundant.

The taste for novel-reading is entirely different from that for standard works; in the former, wher, what is called a good moral cannot be procured, those of an inferior grade will do; in other words, a taste for the bigher order of novels begets a taste for the lower class; it is quite different with regard to standard norks; on r-ading these remarks, even thuse of the most common place class, a relish is obtained for these of $n$ higher order; or, in other words, like begets like. The novels which are must gencrally bought after, are those that possess the greatest amount of dreaming tansen ${ }^{2}$, and where $r$ al weakiress, mio rally considered, is their higilest cemmendation.
On enterang a stationer's shop the first thing that presents itself to the: beholder is, a table, to use $n$ modena expression, groaning whit the most wrelched trash; which deluentes i, the must impsoper maner, marriager, seduclions, burglaries, furgeries, and deathe; in them the most profound mysteries are cunjured out of the slenderest materials.

We are told that fiction "conpists in the narracion of imaginary inct$d \in n t s ;$ " and "the difference between the nairative and the fiction lies in the clarac'er of the incidenis they respectively relate;" and that "the narrative unay be true, whle the fietion is ereated cither wholly or in part by the imagnation. And the chain of iacidente ons whieh a fiction is founded is called its plot."

The advoratns of fictious compositions assert, that buch writings "constitute one of the most inportant de-
partments of literature, nud that fictious literature creets a ponerful infuence on the morals and taste of a nation."

If this procerful influence wns crst on the side of morality and truth, "e would rij ice; but thet this powerful influms ce createll thy the study of the nictious works exsant, it leading a va $t$ portion of soctety into ries, we hare no doubt ; these works aye gilled with wild legends of by-nome agis, harois sxp'oits wf former till es, supernatural events, relating to witches, hvizarda, and hobgoblins, and vagaries of th:a imagination in generai.

A taint idea may be gained of the exteat of fictolis literiture no $v$ in ciaculnt:on, by reference to Mr. Mu. die's Library of London, whic! conlainell in 1858, 215,054 volumes, 87, 380 of "hi-h were dexoted to fielion.

And in the Athensuin Library, of Grovidence, United Stat:8, consisting of 19300 volumes, tis arly one half ( 9214 volumes) are der ted to fiction.

The love and taste for fictuon is or the inc:easn-all c'aeses of the reading portion of sreiety are drifting into its use, and he lowest class of firtions titera uris is grecdily songha after and read with delight, it is, in many families, the Bible of the first day of the week, and the text-book of the other six.

It must require minds exalted nbove mural infirmi ies to digest the romann ife trash that now fronds many of the parlors and libraxics of the cay.
It is said that une nge leaves its impress minn another; and it may bey that the Grecian and Mr.man age, of fabulistic literature, has left ist impress upnin the nineteenth century of the Christian era. And if we are to go ong jear after year, prablishing roamnitic trash, oy thousands of volumes perannmm, until the end uf the oresen* century, what a flund of furgeries and lies will be transmitted to the nexy century.

## Librenies of Tsoful Bookg.

Should be found in every commani15 where a fou lamilics are gaibered ungether.
It is admitted that "Knnwleügo is porier. whether wielded rig! or wrong. That all knowfedge shonla be of the right kind, and uned in a proper manner, re all-important. To speak of procntiag an eulightened education, and pruper knowledge of mankind and hings. in theae limea, without the aid of guod boriss, is simply to talk notisenee.

Then to procure gend bonks and cultivate a 'rabit of se ding them, is the boundenduly of evers good citizen of the world.

Ttie esta. lishment of iiliraries, cannected with ermmun ties and schools, are of compar tively modern date; and their influence upon suctety ìs be-
ing generally feft. Among the rast namber of writs issued, many are of a highorier, whilo many oithers are entirely unfit for use ; but justly fit tor be committed to the index expurgatorizs.

Noftithstanding the great nuajer of excellent worts extant, antianualIs being issucd from the press, there is a great denrth of books among the mass of society. We efen wonder how it is, that the mess of Provincial society is so intelligent, frîeu we consider the great want of booes that generally exists. However, we account for much of it, on the borrowing principle. and on the converational porers and onvillingness to communicote, orally or by reading, that gerierally prevaila.

But these aids are not enough; each community should have a circulating library of standard works, where each member of the commonity could have his inrellectual thirst supplied. The want of such librarins is a gerious backdraw to the teachers of elementary echools. Havine no iibrary con. nected with the sclonl, and few, or no bonks of his awn, it is :mpossibic Sor the teacher to keep pace with the advances of the ate, or do his eniployers justice in compunicaungr knowledge th his pupils. His borrding about from $h$ use to house will not be the means of aiding his operations in the gehoul rom. In one house he will find a piano. a ferr note books, and half a doz $\mu$ n norels, and perhaps a copy of the Seripturss-the latter in so perfect a stato as to warrant the conclusion that the novels take the precedence. In another house may be seen halt a doze:s old almenacs and a few pic'ures on the walls. In another some of the journals and debates of the House of lasembly. In another a few old books, the property of some great-2reat-grandfather. And in another, no books at $: 11$; and so on, turoughthe district. Surely, both the teachers and the people are to be pitied, who live and die in the midst of such intellecual destitution.

Some one will probably bint, that the ahove picture is overdrasn; but we can assure our readers that we would not have much difficulty in pointhg to savernl editions, not fistions, but real editions of our short paragraph on intellectual destitution.

## Map of New Brunswick.

A good Map of New Brurswick, Nora Scotia and Prince Edward Island, sl owing thenr position with regard to Camadaand.the State of Maine, has long been considered a desideratum.

Our families. our schouls, and our public librantes, stand much in need ol such a map. Those of other coun. tries with whut we are connecterf in
taade, require such a map; in fact, the interests of the Proviners, both at home and abrord, have long felt the want of a full and complete map, on a large sea'e, of the Lover Provinces.
But the reader may be induced is ask, has not New Brunawick supplied tars want? We answer no!

New Brunswick has isyued a map. containng itself, the Stato of Maine,
and a patch of eaoh of the Provinces of Nova Scutia, Prince Edward Islard, and Canadt. This map has cost uz over throes thousend pounds, the half of which has prohably been expended in compling a map of $M$ ise, with a portion of New Hampshire.

While the execution of this map is as gool as could be expected, 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 enirrely too small in order to represent the peculiarities of the country.

2d. Nova Scotia and Prince Edward lsland, shouli have been entraced, with as much as could bavo been conveniently given of the circuajacent country.

3d. The price, thirty shillings, 18 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 our own way of doing things, and probably it is best to let us alone. The neximip we get up may be of the United States.

We have long considored a good map, detailing the peculiarities of the lower Provinces, of urimarg importance to our school-going population. Amungat our secular institutions, nothing is mure important, nothing would better tend to develope the resources of these Provinces, and lead those of othrer countries to render assistance. But here we are brought so a stand-still All we have is a small picture of New Branswick, with a patch of each of the other lower Provinces.

## 

This comprehensive Gengraphy contains 270 pages, $1 ; 3$ of which are drivoied to a descriplion of the warld, "ancient and modern ;" 113 pages to a descripion of the United States, and fout pages only deroced in a description of British North Americe, a country much larger than the whole Union.

Under the caption British Anrerica, it says of the inhabitants-"The whole northern port of Grilish America is nccupied by trihes of savages. Further south, in the midile regrons, there are numerous trading posts, and bands of white humers and trappers. belonging to the Hudson's Byy Company, which spread over tie country. Along the Gulf and River St. Lawrence and the Great Lakes, are the principal white set-lements. To the west, from Creat Slave Lake south to the United States, there are tribes of Chipperwas, Pristeneaid, Crceks, and other Indans."

A siranger to Bitish North America would conclude from reading the above extract, that ithe inhabitants
consist of tribes of Indians, trions of savages, and bands of white hunters and trappers. This is the manner in which our neighbours uf the Union speak of a territory larger than themr own-a country with anfional resources, and the ionngge of whose shipping is fifth in the scale of the word's nations. This is t:e pay they speak of a country containing over three millions ot intelligent beings nearly as ming as Sarilinia, of Itation notosiety, or Portugal, or Hollarid, and more than double that of Denmark, Hanover, Toscany, Normay, Baden, or Greece, exclavive fo the fadian and sarage tribus. And these three millions of inle.ligent beings are located in large cities, towns an i villages, sarrounded by extensive fertile domnins, producing $n$ rast amount of foid for man and beast. Thus they apeak of a country pissessing a greater extent of rallouads and telegreph lines than one fourth of the trans-Atlantic norld. with all its greatness, a couniry whose fores's are clothed with a growth of most valuable timber, with misen,
rich, vast, and varied, with many thousands of miles of seabua-d, and rivers everywhere penetrating the country fr hundreds of mies, and one (he St. Lawrence) for thousands of miles; a country with spacious lakes, aft rding an iniand navigation not surpassed byany other country on the face of the globe; ard a country whose waters leem withpevery vari-ty of the best fish.

In sneaking of Russian America, it s3ys that "the whole populdinn is supposed to be ten thnusand, fifteen hundred of whum are Eurupeane, and the rest savages.'

Now it is well known that the inhabitants of Russian America numbir seventy five thousand.

## Prince Edward Island School Loan.

Abstract of an Act for the encouragement of caucntion, and to raise funds for that purpose, by imposing: an additional assessment on land in this island, and on real estate in Cnarlottetown and Common, and Georgetown and Common:

Sec. 1st-Authorises the Lieutenant Governor-in-Council to appoint seven persons to constitute a Bnard of Educstion, three being a quorum; four quarterly meenings te be hid on certnin notice, with suct, other meatings without notice as may be necessary.

2nd and 3id.-A Secretary is to be appuinted witia a solary of thir'y pounds, and ench member of the Board receives four pounds yearly.

4,5,6, and 7-Troyisles for the examingtion of District 'reachers by the Board, ond their cerrificates. Clussification.--First class to te:ch booki-kecping, English Giammat, rearling, wri'ing, stithmetic and grography. Second class, in addition to the nbove branches-a'gebra, feomstry, trigonometry, mensuration, land surveging, navigation and geography, With the use of the globre, and to produce certificates of there cajabilits.
8.-Disqualificd Teachere may at-

Such is the lind of nonsense our youth are learaing; and the Gearrae phy published by tie National Board of Education is still warse if pussible; and we coud reter to others in more commor use in our C mmon Schools, than either of these works, where the most absurd and contradictory state. ments imaginable are ingde concerning British Noth Amerioa.
All go to show the nrecessity of the inhabitants of these Provincos looking after their ows: interests, anil reporting their own country, and not leave it to rthers to undertake. A good (xeography of British North America would be a desideratum.
tend Central Academy for six months free of charge.

9 and 10-Dutics of Board and visiting of schools defined; to prepare furms and regulations, extra if Act, Instractions, \&c.; in cancel Teachers' celtificates ir case of misconduct.

11 to 16 .--Refers to some minor. details, as regards schonl houree, etc.
17.-Serretary tin segister School Disuricts-pariculars being sent to him by the inhabilants or teachers; numter of school disir cis not to exceed two hundred, without special sarction of the Government.

18 -Inhabitants to appoint five Trustees in each district annually, of whom three shall be a quorum-to exnmine schools quarterly; to direct discip ine, etc., and to give certifcates.
19.-District Teacher to transmit to Sucretary notice of his engagex ment, countersizned by at least cureo Jut ices; engagement to be for twelve months.
20.-In each District a majoxity of Tustees may assesa the inhabitants, hous-holders resident fol a $2 x$ months, in a suif to provide books, etc.

21 and 22-Refers to detaile.
$23 . \cdots$ Visitor of Public Schoola te be appointed, who ehall write all
schools twice a year, in assint the Board, call meetings of Trustees, report to the Board the condition of schnols, etc.; salary $£ 200$ per nnnum.
24.-Bard to report to Legislature.
25.-Schnol houses to be three miles apart, except by special act of Govern!nent.
26.-Teachers entitled to allowance to have 30 scholars, excopt in certain cases.

27 to 33-Refers to mincr detni!s.
34.-Teacher to krep a junurnal, containing hames and ages, progress and attendance of pupils-to be open to inspection and formarded to Secretarv.
36. * Allowance to firsi class reachers $£ 45$, and second class $£ 50$ per annum.
a. 37. -Teachers of second class, if teaching Latin, to receive ten shillinge per scholar so taught, but not to exceed $\mathbf{f 6 0}$ in the whole. Returns to be made.
38.-Female 'leachers may be employed, al £j0 per annum, to teach female scholars and boys under swelve.
39.-French Acadian Teachers, on producs g certificates, to receive $£ 35$ per annum.
41.-One second class teacher alloned for Chrrlottetorn to receive £'75, and one first class $\mathrm{E}^{2} 60$, per annum.
42.-Two female teachere allowed for Charloltetown at f40.

43 to 45.-Unimportant.
46.- Geurgetown to have one tencher at $£ 70$, and one female teacher at $£ 35$.

47 to 43 -Refers to special provisions as :o meetings in Georgetown, etc. Like payment as in Charlotte. tomn.
50.- $£ 500$ may be advaneed by Goverament: for the purchase of book?, maps, etc., to be supplied to schnols menies orising from sale to te again land out.
52..-Alluwnace of $£ 5$ to District, requiling assistance in building selioo! houses.
53.-All children above five entitlad to attend district schools.

55 -'T'ax of ane half penny per acre, or four pence half jenny prr hutudred acres to be paid on improven or unimprored township lands, in adx dition to other taxes; tro shillings on every pasture lotin Charlothetoma, and eight pence per every pasture lot in Georgetown.
56.-Additnanal tax of one penny per acre on reserved lands in Royalty of Grorgetown.
5\%.- Payment to be mode together with the land tax.
58.-Tax of five shillings additional on drelling houses, stores, mills, $\&$.
The remaining part of the Act refers to the manner of collecting the school revenue, and how it is co be appropriated.

## Education in New York.

For this Sta $e$, exclusive of the cities, there were in $1858,11,327$ a cheol distrits; in the eeveral districts there were 11,276 school houses, and 262 in the cities. There were $1,238,175$ children between the agra of four as.d trenty one, ontitied to common in-
struction. The entire number who attended during the year was 842,137; 26,153 teachers were employed. The total receipts of the public schnols during the ycar were $\mathfrak{£ 9 4 8 , 4 3 7 \text { . Ths }}$ schoul libreries contain $1,402,253$ volumrs.

## Canada.

This Province Ies between the meridians 5750 and 00 west, and the pinrallels of 42 and 52 north. It is 1300 miles fr.m East to Wext, and 700 from Noth to South, and contoins 348,000 square milrs. It is said to derive its name from the lrequois wnod " Ranata," signifying a colleution of fats. Canada is a plain stretching from the two ranges of hills, one on the Noith the other on the South.
Late Erif is 244 miles long, 58 broad. 658 miles in circuaferenie, and 65 fest above the level of the ocean; 270 feet deep, and 30 feet dever than Lake Huran.
Lake Oytarto, signifying "the tenutiful," is of an eliptical shape. and is 172 miles long; its surface is 230 feet above the level of the sea, and is 100 fathoms decp.
Late Cbamplain is 120 mileb long.
Late Superior is 360 miles long; its surface is 127 feet above the level.
of the Atlantic; the bottom of the basin ts said to be 300 feet belnw the surface of the occan. It is led by 220 tributary streams, of which the St. Lu nis is 150 miles lung

Laee Horon is 240 milos long, by 220 broad, and nearly $10 t 0$ miles in circumference, and from 900 to 1010 feet deep.
Quebec is 360 miles up the Saint Lawrence, and the salt water approaches to within 20 miles of the City.
Nontreal is 180 miles above Quebec. The St. Lavrence is navigable at Munitreal for vessels of 600 tons.
The Niagara Falls Bridge has 800 leet of a apan, aud is 230 feet above the water.

The Ottawa River, a tributary of the St . Lawrence is orer 2000 miles in length.

The Victoria Bridge, at Montreal, is 1 wo miles long, except 150 feet.

## The Pleasures of Knowledge.

"How chnrming is divine philosaphy! Not barsh and crabbed, as dull fools suppose,
But mnaical as is Apollo's lute,
Andi a perpetual feast of nectared swrets,
Where no crude surfeit remgn."
So sung Milton tra centuries ago, and long before that date plato hud announced that "the world is G.dd's epistle to maikind." It is the grand book in which all may read, and whoze pagt $s$ are so full of varied intereet and genial knowledge that the being who, having the pover, neglecta to stindy $i t$, sorely may be written down an asf, for he deprives hinsolf cf an enjogment such as no other pursuit can give.

We are semetimes inclined to be vexed with our jace when wr find them all toiling after every vnin fancy, somo tent upon oue ambition, some another, and but a minority dig-
ging in the deep mine of sature fog the grandest of all pofsessions-s Truth. Granted that its gold is noa yellow, nor its silver white, fur itireasures have not the collans of mas terial wenith, but they are as glorious and as beauteons as the sparkle 0 the diamond and as lasting as the hills. Science clothes nat her votaries in purple and fine linen, but dresses them in lovely flowers or in iridescent ahells, and gives an her reward a contented mind and a pure soul. The portry of ecirnce sometimes flushes in the oration of a professor or in the pages of a book, but her truest epic is writen oppn all materiality, which proclains that in all things there is $s$ lnw which, when known and applied, shall make marr happer, betterand more truly human.
By the inrestgation of the lavis which govern the objects that are all around us, the motions of the planats,
the relations of life and health, the dewiny of man, and the glory of the Deity, are better understood; and the lighting of a cottage, the building of a palace, or the cooking of a dinner are better performed. We can never be in any position in which knowledge is not of value to us, and we can never prophecy the moment at which we may most require it. Indeed ina ny of us only know that there is nore to be known than oecurs to us in the daily round of busmess life, by the discovery that somelting we do nut know is calc:alated to make us richer or give us more ease. "But," exclaims many n petulent person. "how shall $I$ study withuut an instructor, or how investisate without opparatus?" Foolsh notinns! the best workman always uses the simplest mols. Have you eyes, cars, nose and hands? Then you are provided with apparatus, and memory is the tablet on which to write down your impressions. Eacla one of us is bet!er furnished than a college laboratery or a profess.e's lecture $r 00 \mathrm{~m}$, and all that we have to do is to learn the use of our apparatus; and there is no place in the universe where man cannot find sone object to nterest, some study to pursue -Goldsmith found tume to observe na. ture and record his thoughts, and in glowing language he tells us that "the blushing beauties of the rose,
the mndeat blue of the violet, are not in the flowers themselves, but in the light which adorns them, Odor, softness, and beauty of figures are their own, but it is light alone that dresses them as in their robes, which shame the monarch's glory." As a concluid. ing incentive to our readers to study for themselves, as well as to read bouks and scientufic periociteals, we will give a quotation from a lecture by Prince Alve, of England. "Man," obserpes this eminent savant, "is approaching a more complete fulfilment of that great and sacred mission which he has to perform in the world. His reason being created after the image of God, he hias to use it in discover the law's by which the Almighiy garerns his creation, and, by making these faws his standard of action, to conquer nature to his use-himself being a divine instrument. Science discovers these laws of power, motion, and tran-formation; indus:ry npplies them to the raw material whech the errth yelds us in abundance, but which becomes valuable only by knowledge."

Oh! that all would study nature mure, nud think of themselves a litle less; then we should indeed be a people of kimgs, whose empire would be the sworld and whose ribje c:ts would be all created things !-Sicientific $A$ merican.

## Agriculture-1ts Importance.

No one should despise the accupation of husbandry after reading the followng remarks of a correspondent of the Valley Farmer:

Agriculiure is the body, winilst the other professions are memberd; and although the body and members are mutually dependent und reciprocally naeful to each other, the body can exist whout the members much better than the mp mbers can exist without the body. For the purpose of compareon, agriculture may be considered as a irade, an art, and a sciesce. The trado is mechanical, re-
quiing muscular strength. It is imı-tative-it is to do a thing as one has been taught to dy it brfire. The no, in a measure, acquires it. He knows his master and his master's crib. He treads the nerustomed furrow, turns s.i the headlands, and obeys the driver's commands.
The art implies s:o-operation of the mind with physical power. Themind contrives; it is a lever which greatly assists and abringes the labor of the hands. Thamind, like the soil, maken seturna in proportion to ths culture whish is bestowed upon it. Both are
unploductive without culture. The mind is improved by observation and reading, whith makes it familiar whth the berst models of practice, and enables it to profit by the improvement t others.

The science teaches the laws and proportions of incrganic matter-as of rocks, earths, manures, \&c., \&e.; of $o$ ganic matter, as animals ond vegetables; of their structure, food and uses; and the agency of heat, water, air, light and e!ectricity, i.. their development and naturity; the employment and adaptstion of there matters for the be-t uses of man. It coniradicts the experience of agys and the labours of nations upon these inveresting subjects, and makes them subservient to our wants and our comforts. The science is a collection of facts and leading truths, illustrated in practice and confirmed by expertence.
Land and laboc are the legitimate sources of public wealth. The first, to be productive, must be cultivated; and the labor of doing this is abridged by the culture of the mind, which guides its operations.

Wuhout agriculture there is no wealth Gold and silver are not wealth -they are its convenient representatives. Cummerce produces no wealth -it simsly exchanges it. Manufactures and the arts re-combine it. Agticulture is the prolific whother of wealth. The rest simply handls it when produced and celivertd mio their hande. The earth itself, originally, spuntaneously produces wherewith to keep the race of man from starving-cnly whilst he is making ready to thl the soil. Without it t.e soon degenerates into a widd animal, living h: re and there in smali squads, a tittle superior to the other beasts of prey. The easth breeds savages. Agriculture breeds enlightened naliuns. It bretds houses and shpps, temples and seminaries; it bret ds the manufactory ; sculpture, puisting and muvicare its offspring. It would be folly to speats of the existence, or
beauty, or power of any of these thinge, without agriculture.

The nulp $t$, the professur's chair, the scienific laboratory, the tripcd, the library, the ship, the trip-haminer, the loom and the anvil -all would go down in nne generation. It is by the cuperabundane produce and stability of agriculture that all things exist. Nor gold, ror silver, nor diamonas could replace it. The srate of husbandry, in any countiy, is the tevt of its enlightenment. The thermometer of civilization rises and talls as drives the plow. "You must send the plow," exclaimed a man who had travelled all over Jhristian missionary ground in heathen lands. A barbarian nation needs hut to be plowed up-deep. subsriled, continuell, sowed, planted, and the mevitable harvest will be on enlishtened empire. A practical, working agricultural society will dig batbarisiu and mental and physical and spiritual poverty out of a nation, as effectually as any powerfil grubbing machine will "shake out" the stubborn stumps.

A few centuries ago, a learned writer describes the times in these words: "Rude were the manners then; the man and wife ate out of the snme trencher; a lew wooden-handled krives, with blades of rugged iron, were a luxury for the great; candles were unknown. One, or ai most lwo, mugs of brown earthenware, formed all the drinking apparatus in a bouse. Rich gentlemen wore clothes of unlined leither. Urdinary persons scarcely ever touched flesh meat. In noble mansions, a little corn seemed wealth "
This is history. Any one of our neighours, if compelled now to live as the highest and weslihsest of mankind lived in those days-such a neighbor would excite cur sympatbies. We would consider him as good as starving; would carry in gifts to supply his wants, and start a subscription anong our friet.ds to feed and clothe him.
A few hundred years ago, and all
the wealth of a nation could not buy a loaf of bread, such as you will see on any farmer's table at the present time. The fine flour could not be made. 'Ihe table of our farmer is much more princely in its furnishing than was the table of a monarch then. We have now in conme' use several spectes of h.10st delicious fruits then unknown. We rai-e several kinds of gram not then in use. The very word corn, then applied to wheat and barley, is now apphed to a grath then ondi-covered. Men then lised upon a few veget bles, with fisin on $\mathfrak{x t r a}$ orilinary occastous; and at their greatest feasts, their chief viands were flesh and wine. Their crops, as well as in the palmest ancient times, rarely vielded over ten er twenty fo'd.Now a hundred fold is considered is very small return $T h-n$, as in the ancirmt worlh, they gathered the harvest by pulling up the talks, or by almost as slow a process of reaping pith the sicsle. Compare these me$t^{\text {hods }}$ with the great reaper now in
use! that sweeps wer acres in an hour, and leaves the glarious harvest on the fieids of a farm in a day. Thus, formerly. the patient ux slowly trampled ont the grain, week after week. and the winds of heaven and the fan in the lards of the labor, $r$ slowly and imperfectly separated the kernel from the chaff and stran. Now, the nighty thresh-r, with tumultuons whirl, takes into its crusaing teeth thousands of sheafs in a day, and scattering the emp:ied heads, aud straw, and chaff, in rich streams, the separated golden grain rushes out upon the ravished sight, all rrady fur the warts of trade -for fond for man and form and beast, and for the hopper and the stones, swiftly driven by the vast and ponderous wheel. Fromits mighty pouch comes out flour uhite as the driven snow, which makes the kneaded bread beiter than the fabled ambrosia of the gods.
In short, Agriculture clotires allAgriculture feeds all.

## Agriculture in New Rrunswick.

Having within the last few months made a hasiy our through a portion of Westeru New Brunswick, we were struck with the sluggish and languid appearance which agricultural operations everywhere presemted. And in answel to the "why is it so ?" we were repentedly told that New Brunswick is rot worth living in, and is not ca. pable of su-taining, however well cultivaned, a population rqual to the most inferior State of the Union Whth this Idea of the capabulities of this Pro. vince, we are fint prepared to coincide. On a comparison of Ayricultural sta-tasucs-New Branswick with many of the Sates-it is evident that we far excesed, in the grawth of poratoes, and many of the er reals, especially of ous; and it only iequres inlusiry, sistem, and the expe diture of a mocty of the casit:il expen'er in shiprombing and oher pur-ute, to whe Now Brunswick not culy self-sustammg,
but able to sustain several millions of inhabitans, and compare favourably with many of the best Agriculturai States of the Union.

We are also told, that the annual emgration from the Irovince, to $\mathrm{Ca}-$ liforma, Ausiralia, New Zcalard, Fraser's Riv. r and the Western States, far exceeds the enigration to the Yrovince.

And it is also suid, that a latge portion of the sons of Farmers are abanduning agricnltural operat ons, and either leaving the country, ar procering stuation in telegraph offices, clerkships in stores, or situations in the pullic offices of the country.
isuch, we acknowledge, is troe to a very great extent. But that these thang tell agransi the agri-ultural capabilities of a country we do nor belive; but that they dintell porerfully ar fust the kind of educathon, or no educalion, farmers give ther sons, mad
the want of interest taken in agricultural pursuits, we firmly believe.
'There is a spirit of novelism and restlessness abroad in the cuuntry; there is an eagerness to accumulate weoltr in a hurry, and without putung the band to the plough. There is an idea abroad, that a farmer's life is tot a respectable one; hence farmers cannot be gentlemen, but slaves. There never was a greater mistake; for if there are graaes in callings, the honest and mielligent farme $r$ inust stand at the tup of the scale. 'Noue young men who thus talk and act, entertain a very mistaken idea of the qualifications that constitute a gentleman; they seem to think, t'jat because farmers generally do not wear bruadeloth and starched collars every day, and sit in offices, where the sun will not shine on them by day nor the moon ky night, that they cannot be gentlemen; they should remember that "its not the coat that makes the man."

Tiese mistaken notions, along with the wonderful dreams, of the gold of distant regions, which seem to ris $3^{\circ}$ in vision before the mind, impels many to lenve their homes, the old farms on which their faihers lived comfortably, snd their early assuciations, and undergo untold hardshipe, in order to secure a portion of that which not more than one in thirty or forty obtain; and what may de still worse, they may suffer the loss of health and character, and muy be lite itself.

As circumstances change, so should our educarion also. The dignity of labour should be thught in our sehools and colleges, and in our domest $c$ and rural ¿.vocations.

We buve many other back-draws to agritultural advancement. This country is not sufficien ly adivanced tc krep up a complete division of labour; hence, many of our mechanics, especially in rual di-tric's, have to lurn their attention to various pursuits, aumg which is arriculture. In a:diti. n. we have ". lurge, c,mparatively considered, finating pmpulaton, ensisting of lumbermen, fishermen, ship
carpenters, rallway navvies, and others, who at one time fullow their favourite pursuits, and at other times farm a little, if tarming it cas be call.. ed.

In addition to these draw-backs, perhaps, there is no country where tine is thought so limle of, as in New Brunswick. Go where you will, and you see able bodied men luunging about, and not working haif their time, te ides shoals of boys tunning about the streets and public pleces chasing, one wou'd suppose, the winds. In: fac', it is very duubiful if one balf the pupulation is prufitaoly employed.

In place of agriculture standing first among the pursuis in the scale of impurtance, it is generally considered seconcary.

But the time is at hand when necessity aill compel us to turn our attention to the cativation of a portion of the vast tract-, millions of acres, of good land that still lie in a wilderness state in New Brurswich.

We have got to learn, that in order to farm well, we have git to give our youth a good agricultural educationsuch an education as will enable our farmers to stand on an equal footing with those of other profe-stons. The liftiness and impurtance of a pursuit, is generally estimatud by the degnity of thuse who follow :r. Herer-, it is said, " as the man, so is his firm."

Io farm well and profitably, requrres the exper diture of capital.Here no one thinks of expending mnney in agicultural operations; whie thonsands of pounds are frequenty expended in the construs: ion of a single ship; but to expend a sunilar amount in agricultural operation, would be almost considered a waste of money. If a farmer lays up a ferf hundreas of pounds, wilich be may easily do withon the expenditure of much means, he genpially lets it out twinterest, a: six per cent, or locks it $u_{p}$ in his chest, so thon it may be at hand whei his neighbour's farm is for s-le. And when be alds 'farm
o farm."-he has so much land, that he cultivates none aright. The old notto,

## " A litt'e house well filled,

 And a little land well tilled," is lost sight of.The following article from a Correspondent of the Genesee Farmer, a monthly, which should be in every hous" in the Province, meets our view:-
on the importance to farmers ur a guod education.
Eds. (Ginesea Farmel : -.I consider the great want of farmers at the present tume to be a good education. The importance of this will hardly be questioned. Very few farmers have cnjuyed the advantages necessary to qualify themselves thoroughly for their ocerapotion. A fer years ago, the public opinion on this matter was quite ditferent from what it is now. Still, there are some whi, need a little waking up on the subject. There was a time when it was thought that a farmer needed only a pair of hands and streng'h to use them-the head beng of iitue consequence. While the buy who was intended for a mechanic, a merchant, or a lawyor, was sent to school. and allowed every opportanity for improvement; the one destgned for a tarmer was kept at home at some kind of drudgery. He needed only to know how to work. That was to be the businews of his life, and what need was there for him to learn grammar, or algebra, or geometry, or philosur 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 him to know that his father dill so and so, and he was to do likewise and zsk no questions. Is it any wonder that he should make a dull man and a "bungling farmer ?"

Now what I rant to say to the farmers of this country 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 sume good agricultiral paper, and give your boys time to read it, as well as some time for atnusement, renembering that "all work and no play make Jack a dull bny." Let them know that a true farmer is as much of a gemteman as the lawyer or the doctor, and sumetimes more so, although his clothes may nut be so fine, nor his hands so soft. Do not sappose that becanse your son is to be a farmer he does not need a knowledge of all that is taught in our common schools and academies. If he does not need to use them in his business, the study of them will improve his mind, and not only teach him to think, but to think methodical's and correctly ; and what is of quite as much importance, he will not feel that he is inferior to his neighbor whose ocrupation is different from his own. It would be far hetter if the choice were to be made between a good educa ion and a geod farm, to choose the former. Nuw almost any farmer can gire his sons each a good education, while few can give the farms. Let them have the farms, if you can, besiles.

## Soils.

Alluviul Soils.-Of those, we have first, red marsh; secondly, blue marsh, low marsh or corky dyke; and thircly, intervale.

1. The red marsh, thnugh varyw ing somewhat in quality, is the best soll in the Province, 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 mud from Truro, will serve to shew the composition of this kind of suil.

|  | Moisture, | . 6 |
| :---: | :---: | :---: |
|  | Orgaticmatler, | 1.5 |
|  | Chilorine ${ }^{\text {c }}$ as common salt. | 095 |
| Nolnble | Sola, if ${ }_{\text {Potish, }}$ (tammon salt. | . 116 |
| in | Sulphuric Acid. ${ }^{\text {as }}$ | . 073 |
| Water. | Lime, $\}$ as gypsum, | . 661 |
|  | Alumini, | C85 |
|  | Magnosia, | . 094 |


| Soluble | Carberate of Linue, Gide of Iron, | 3.60 2074 |
| :---: | :---: | :---: |
| in | Alumina, | 1.20 |
| Hydro- | Angues'a. | .13 |
| shloric | coda alld Potash, | 8 |
| acid. | Phosphorric Ac.d, | ${ }_{5} 8.9$ |

It will be observed hat, in the above analysis a!l the substarces previously mentioned as contaned in fertile soils, are present. This marsh mud is nut only a valuable som, but is carted on upland as an excelient manure. When we take this fact into ronnection whh the circurnstance that 87 per cent of the whole is only sulicious saud and that only one and a half per cent of organic matter is presemt, we can appreciate the vast importance of the substances contained in tt.

Succh spil requires no fureign appliances to renderil fertile. It has hown ever one weak point-its stuall proporthon of phusphates; and I suspect, that if there were not occisionally present in it, fragments of fish bunes and other similar organic matters which do nut appear in an analysis, this deficiency would anp^ar in a sumewhat rapid falling off in its productiveness. It is certain, that the best varieties of his kind of soil will bear continued cro!ping withqut manure for a $v \in r y$ long periad. It is hawever also certain that it gradually runs out, and the owners of the older marshes already ,have occasion to inquire for the means of restoring its productiveness.

Draining is well known to be essential to the fertility of the marshes, and thore are in this Province many valuable tracts of this land in a cumparatively useless condition from its neglect. Admitting the sea water to depnsit new mud, is also a well known remedy in the case of fuiling, or naturally poor marsh. It is attended however wilh the serinue disadvantage of causing the loss of several crops.
It seems probable that in the deeper kinds of red marsh, subsuil or trench plougting might prove very advantageous after the surface has been sumewhat run out. There can be no doubt however, that in the heavier hinds of
marsh, it would require to be accompanied hy very thurough drainage.

It may also be de-erving of inquiry if he title drains would be inne serviceable than the open ditches in nommon use. Tilles could be very easily and cheaply made of the marsh inud i'self, and when once laid, wruld require far less atten'ion than dicthes; and could be laid in any direction, and in any nun:ber, without in erfering with the working of the soil.

Lastly, the composition of the marsh mad indicates that the anplention of bone-dust would pribably be attended. with the most marked results. particularly, in intreasing the ce tainly of grisin crods, and in producing the more valuable kind of grasses-Guano wouid lave a similar effect: hut a gond dres-ing of bone-dust would be mure permanent in its effects. I would recommend to owners of poor or worn ont marsh. to try lhe experiment, and cilculte from the increase of crops, whether it would nut be remuserative.
2. Blue marsh, sometimes called inner marsh, low marsh, corky dyke, grey marsh. This forms the suhsurn of the red marsh, and generally oucurs in a hell along the inner margm, next the upland, where the surface is lawer than the outer $e d g e$, in consequense of the tides depositing the coarser mud near the channels, and finer mud in smaller quantity near the upland. In those parts of the Province where the tides are only of ordniary height, all the marsh that exists is etther of this lind, or bocey marsh, eomposed a!most entirely of vegetable matter. I he blue marsh usually contains anore vegetable matier than the red, and assumes the characte: of a bogey suamp. It emits a feud smell when recemily turned up, and the water ooziug from it usually stains the pround with a rusty colour. It has the appearance of being a rich soil, but, though it produces, in its natural state, crops of coarse grass when broken up, it is of Intle value.

Its chemical composition gues the
surue reason of its comparatively worthless character, and a'sis suggests a semedy. The vegetable maitir pres, eat in this kind of marsh acting on the ataghan: sea-water, has deconposed the sulphate of sonla, of whicit a :mall quantity is present in the tide-water, and has sei free its sulphur, in the form of sulphuretted hydrugen, which scting on the oxide of mon in the mud, cenverts it into sulphuret of iron, and changes its colour from red:o grey. Tine sulphuret of iron remains unchanged, while submerged or water. soaked but when eaposed to the air, it passes into sulphate of iron or green vitrel; a substance puisunuus to must cultivated crops, pxcept the oat, which can put up with a little uf it Hence the bide efiects of dis'urbing the whe marsh-hence alsu the rusty colour of its water. Land in this state can be easily tested by drying a small pirce of it and making it red hot in the fire ; on taking it out, it will be fonnd to enit a strong sulphurous smell, and on cooline: its red colour will be fuand to be partiaily restored

The remedy is draining and liming; and such land will usually stand, without injury, a h-avy liming. Drain:ug admits air and takes off the saline water. Lune decomposps the sulphate of iron, and forms sulphste of hine zud oxide of inon, both useful substances. The cause and care of the blue marsh thusi involves a series of chemical changes; the last of which may be represented as fullows:

| Suluhuric |  | Sulphuric |
| :---: | :---: | :---: |
| Acid and | converted | Acid |
| Oxide , of |  | Lume, uith |
| fron, rith | into | Oxide of |

When the blue marsh is tun how to admit of proper dranage, the only mode of improving it is $10 \mathrm{di}, \mathrm{t}$ enches to the tide channels, and thus admit the muddy tide water to depusit uvir
it a cont of red mur, Both of these m-thods have alreads been employed with surcess in sume parts of this Province.

Though the blue marsh is by itself sn un ridustive, yet those varieties of it whicu contain a goud proportion of vegetable mutter, when ciaña gut and cumposted with lime or marl, form an adinirable top dressing for upland grass
3. Intervals or fresh water alluvint urcurs along most of our rivers, in variable quamity and quality; but is gentrally a fine and priductive soil. It requres the same management with upland soils, and except where it has a loose gravelly subsoil wuuld often he improved by drainsng. It is lamentable in see, in the alder settlemeuts, so much of this valuable soil alunst ruined by an exhausted system of crupping.

It is worthy if notice thatever since the first cultivation of the alluvial soil of the Eupliates and the Nile, irrigatiun by running water has been found to be a most + fflcient menns of promoting and restorng the ftrulty of this kind of land. Many oí our dutervales are amnuelly oreaflowed by freshets, and semetimes with very injurious resulis. But it is a mater deserving of impuiry, whether a regular and systematic actmissio of the water of the rivers and the uibutary brooks, might not repay its expense, hy its heneficial effects on the crops. Minddy water let in, in this manner, wonld not only topdiess the solh, but tend to elevate it above the rench of the freshets, and even clear mater fluwing gemly over the surface for a limited tin e, is known to be highly fertulizing, though the theory of is operation is not well un.. dirstund.

Sume useful facts on this subject will be found in Jackson's tri atse on Agriculture and Dairy Husbandry.Times Magazne.

## On Coating Seeds wish Manure.

Several letiers bave lately appeared ta a Glasgow paper from a Mr. John

Runald, a nercbant oi that city, detailng the result of several exper ${ }^{i=}$
ments he had made by steeping grain in liquid manure. so as to conat them over with it, previous to their being sown. He states his plan 10 be to make every seed carry with it :o its bed is the suil some good manure, whick has an immediale tffect on the growth of the plant, and groatly increases the crop). I'he experiments were tried on some small phots of land near Glasgow, and the manures used were a solution of lime in wates, 2 solution of barn manure, fiwls dung and water, the deposit obtained from city sewer ge, and a mixture of soot and "ater. He does nut state which of these mixtures was the most successful, but gives the increase frum 20 to 35 per cert over seed not so prepared. As an addition to either nisxture he recaumends a suall quartity of sugar, and he proceeds to show tha: sauharine matter is an ingredient in wheat and oiner grain nid contributes mainly to the n-urishment at the young plant. An experiment with guano was not successtul, but few of the seeds germinating.

The mode of applying the liquid is as follows:-Take a tub absut 30 jnches over and 20 deep; empty into it a boll (four bushe!s) of wheat; take two prounds of sugar, hruise any lumps there may be in it. and sprinkle it on the tup of the seed 11 the tub. Take another smaller tub, put into it six gallons of wher, and mix soot with it until it is as theck as grod cream-a man rubhing the sout and pater against the side of the tub with a stiff broum will mix it in a tew min-ates-then with a jug distribute the woletion slowly on the top of the sugar
and wheat. The liquid will shen ho about two inches above the top of the wheat; stir the whole with a wroden lade several times within the first four loours, hut not after that; lat it remain in the solution not le:s than 24 hours, by which tune the seed will have absorbed all the liquid; and al: though in a damp state, it will be reany for sowing; but if the weuther is nit favorable, the seed miy be left in the manure for forty, fifty or sixty hours, every seed will thin be hlack nith sout. Other manures and wher grain to be treated in a similnr man. ner. The whole of the secd thua prepared seat up a large number of stem- From one rout, the seed of which was cuated with hen pen, there were - ears, the pruduce being not less shun 1100 grains, but it was on parden ground and good sonl. Of the plants of whent sen op, not ene wrs thrown out of the ground by the alternate frosts and thaws of winter becanse the roots were large and had a gooud hold of the ground.

The plan was afterwards tried on the atate of the Earl of Eglinton on a larger st:ale. The wheat was coated with soot and sugar aur the results were that the grain appeared sooner: it thllered better, is convered the clod snoner: it grew more luxuriantly; it buret into ears suoner; the flower on it was earlier ; and whea cut it produc d fully one fifth more sucks than the rust of the field.

Beans and pras treated in the samo manne: gave 47 per cerit. greater increase than the seed sown withous the coating of manures.

## Literature.

[^0]This work contains many usefry hints on the rustoration and preservation uf health; it should be in every fanmy.
The remaks on New lirunsyick are to the poin: suc' remarks puhlished in a forotgo (wustry, by inewho saw and hecird" for hanseti tend to perpetuato good techigh, and make ki uwn uur vast and varied resturces.

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