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No. 10.

## EDUCATIONAL.

## EDUCATIONAL INTELLIGENCE.

## CLOSE OF NORMAL SCIIOOL.

The Winter Term of this Institution was brought to a close on Thursday the last day of March. The courses were pretty nearly the same as on former ocensions, and of which a full outline was given in the fourth number of the Journal. The private trials took place the week before. These trials last for three days, the Principal and the other tenelhers having each a day appropriated. When the Pupils have assembled; the teacher of the day prescribes certain exercises in his own department and they (the Pupils) are required, without the smallest assistance, to answer them in writing within a certain fixed time, -and the answers given form part of the ground on which the Diplomas are adjudged.

Monday and Tuesday of the following week were deroted to a private review of all the work done during the course of the'Term. Wednesday was spent in a public review of the same along with specimens of practising in the Model Schools. Or. Thursday, the public review was resumed at 9 o'clock A. Mr., and continued till 12 o'clock noon, when Dr Forrester
after a few observations, proceeded to read out the following lists of the names of those who had suceecded in gaining $\mathrm{Di}^{-}$ plomas.
orambar school diploma.
Mr. Daniel MreDonald, Sydney Countr. Charles litblado, Colchester.
William Elder, İants.

## fInst Cl.ass dirloma.

Miss Saralt MeLeod, Colchester.
Emma Page, Cumberland.
Mary Aunand, Colchester.
Nancy Archibald, do.
Martha Cumpbell, do.
Mary Jane Campbell, Colchester.
Mary Jane Cox, do.
Margaret C. O'Brien, IInnts.
Nancy Barnhill, Colchester.
Lizzie Walker, Lunenburg. Bessic Steele, Inalifix.
Mr. Alexander McKay, Colchester. George Ross, do. Duncan McPlanil, Inverness. Malcoln McKinnon, do. Angus IRoss, Colchester. Peter Campbell, Invarness. Campbell Stewart, Halifax.
second class diploaid.
First Division.
Miss Elizabeth Thomson, Mnnts.

Miss Mary Allan, Shellurne. Samh Wilson, Ilalifax.
Annio lidbindo, Colcheater.
Jane Gianmel, do.
Jimmn Homer, Shelburne.
Ictitia Crowell, do.
Jinne lend, Ricton.
Margarel Aturrny, Colchester.
Lillins McLeod, Pictou.
Susan Waddull, IInnts.
Martia Stewart, lictou.
A. J. MrcCurdy, Cumberland.

13ishop, Syincy.
Samih Jnno Davison, Colchester.
Mre John Chipman, Annapolis.
James Christic, Colchester.
Donald Mcleorl, Cumberland.
Mobinsen Cox, Colchenter.
Allan Melillinn, Victoria.
Mexnnder Meline, lichinond.
Charics Kehnroll, Iunenburg.
Miurloch Mekimon, Invermess.
Richmond MeCurdy, Culchester.
Thereafer Dr Foirester delivered his valedietory nddress. Ile expressed, in highest terms, his satisfnetion with tho genemal good conduct of the atulenta during than seasion, ns well ne with their diligener mell pmgreas. II then exlineted them at somo length to carry on stealfastly and perseveringly, the studics which thay lud so anceessfully begun, and enve direc tions as to how they ought to prosecute those studies with benefit both to themselves and to their future colling, dwelling maire usperintly on the neencsily of regularity, punctunlity, and thorsughness ; nnil concluded by peinting out the rast importance of the office to which they were looking forwanl, wher'uer viewed in itself, or in its diversified relationships, or in its aflicta in-time and in eteruity, and the solemn obligntinne therrby laid upon them to strive with unabated nedor in order to reach the highest eminence in professional attainment.
After this address which way listened to with the decpest nttention, Dr Forrester expresed his regret that none of the Commissioners of the Institution: were present, butinvited nny gentleman to make whatever obecrvations he might see fit respecting what he had seen and hearrl. Whereupon the Rev Mr Forsyth, lector of the Episcopal Chureh, 'Iruro, pose and addressed the meeting with much effect, expressing in the movt handatory terms his entire satisfaction with all he loud witnessed, and commented at some length mad with great ability on some of the principles of that system of Eilucation inculcated and practised in the Norman and Model Schools.
ds somn as Mr liorsyth had linished his well timed and nelmirable observations Mr Charles lithbado, one of the students of the advanced section came forwarl, and in his own name and the name of his fellow-students read the following address:

## Rev. Alexanden Fombesten, D. D.

## Honoured Sir.-.

Beform we sparate, perhaps forever, allow us to present sou with a verbal acknowledgement of our sincere regarl and esteem, for the faithtul sud ellicient manner in which you have discharged your duty towards us, durng the past session.

As educaturs of the suang, wo feel truly grateful for the valuable training which we have received in this place. We consider it invaluahle as a means of making us nore proficient and successful in our important calling. We leave this institution deeply impressed with a sense of the greatness of our work, and feeling that we are better equipped for it than when we entered. Nor is this all, we belicio that many of
us havo been imbued mith a portion of jour spifit of enthusiasm in reference to our profecsion.

Wo hope that, in some mesura at least, we can npprecinte tho great caro and anxiet; which jou hare manifcated in your endenvors to instill into our minds correct views on tho subject of clucation. Our fature careces wilh testify how wo hare profitel by your lessons.

In common with you we deeply deplare the nmount of ignomnee which provails on the sulject of education. As the clucators of the young of Nova Scotia wo recogniso it as our duty to Inbor for dispelling this ignomace. Not only do wa feel it our duty to sympathisa with you in your trials nad difficultics, but also lo labor with you in your nrduous work. Tho fichd lics open lefore us. We feel our incapability for ocrupying it. Wo know that we must encounter trinls and ditiocultics, that wo must excreise great eelf deninl, that wo must Inbor with andor and perserernnce, but nll this wo are prepnred to do, humbly trusting to divine nid, in making a right use of the instruction which wo havo received from jon.
'Te you this session of the Normal School has been one of grent labor. Tho voluntary task of training one section of the students, v hich, in nedition to your other onerous duties, jun assumed, imposed upon you an excessire amount of tuil. The students who thas enjoyed your instruction fecl thint you have laid them under a debe of gratitudo which thoy never con repary. Thay fondly hope, hovever, yoll will seo hat all your Inbor so bestored was not in viin. In this spheres which many of them will he called to occupy the influmese of your teiching will be folt for goon, ns it will emable them to fulfil tho duties of their ofice inore efficically.

Angl while we hus acknowledge our regard and estecm for you, permit us to acknowledgo likewiso the faithful and efficient discharge of duty on the part of your fellow laborers in otfice. To them also we feel bound by strongtics of gratitude for the kindness which thog have manifested towards us, nad for tho valuable instruction which we have received at their hnnds.
And now when nbout to separnte never in all likelihood ngnin to arsemble within these walls, hallowed by scencs and fond recullections of the jast, we tako a back warl glance over the time that has transpired since we met, the sectes in which we have mingled, the toils we have undergone, the ties wo have formed, and we think of their influence upon the future. And to youn, and to us, Sir, that future is of the greatest inportance. We go awas as the representatives of this institu-tiun-nny, nis the adrocnics and supporters of that system of cducation which is here tanght. One goes to the North another to the South, ong East nnother West, and cach goes to sow the seed which ho has gathered here. We go, Sir, to be co-workers wilh you in your great work, wo go having common sympathics and common ends in view, to take charge of the rising generation to train for usefuluess in time and hapniness in Eternity. And to you ns tho director of our energies, and to this institution ns the centre of our associations, will our hearts be over closely knit. In that fiture which is now partially unveiled before us, we can sce the issue of all your cares, your anxictics, jour laburs and jour prayers. Lou may now sow in tcars, but you shall yet return bringing your sheaves with you rejoicing. Futurity shall disclose the good which has been accomplished by the perievering energy of him who in Nova Scotia ndvocated that system of celucation which proclaims bencfit to man and glory tc God.
'To this address Dr Forrester made a briaf and appropriate reply, earneally exhorting his pupils to carry into effect the principles embodied in the address, and never to forget that the Province would draw their conclusions regarding the character of the Normal School, not from its own merit or procedure, but from deeir conduct and effienency as the educators of the young.

The Principal having intimated that the Summer Term of the Normal School would commence on the second Wednesday of Mny next, closed the meeting with praise and the benediction.

The interest manifested by the public in the semi-annual closing ferrice of this P'mincial Institution seems unnbated. Never on any former occesion was tho number of Visitors, greater. Fivery crusice and corner of the Building and of its entmace, from whence any ono could see or hear what wes going on, wra occupicd. The whole proceelings were much en livened by the excellent pieces of music sung by the l'upilTeachers nt the end of every hour, conducted by Mr Williams the able Music: Mrater of tho Institution.

## riport of tile superintendent of EDUCATION FOR 1858.

## May it flfase Youn Excenimeiot, -

In conformity with alatutory enactment, I beg to sub. mit to your lixecellency niy report of tho Common, Grammar, Niormal, and Model Schools for the past yenr.

I shall Girst of all advert to $n$ few of the more prominent features in tho Statistical tables appenied, and then present a brief account of my proceedings as Superintendent of Eiducrtion.

Bat beforo I procecd to an examination of theso tables, I may take tho liberty of expressing my regret that so many imperfections and defleiencies still allicre to them, and that they cannot be regarded in any other light than a mere approximation to the truth. I linve in the pages of the Educational Journal frequently and earnestly pressed upon the atsention of Tenchers, Trustecs and Cominissioners, the benefit that would flow from their exercising grenter diligence nad accuracy in gathering up, within their reppective provinces and bounds, all educational statistics, yet I do not think they are one whit more complete, than they were last year. I do not mean by this remark to charge any of these parties with dereliction of duty. On the contrary, I believe they have done their duty to the best of their ability; and soveral of them luve bestowed no emall amount of pains in collecting much ruluabla information. The meagreness and deficiencies of these tablea, are to be ascribed, not so much to the partics mentioned, as to the legislative educational enactment now in force, there being no staff of paid agents, whose business it is to attend to such matters; and until such a staff of public officers is appointed, I. despair of being able to present any thing like an accurate and reliable view of the condition of education in the Province.

In reference to these tables, it may be stated, generally, that they show some improvement on those of last year. The number of schools, and of course, of tenchers, is considerably increased. The difference between the number of echools taught in summer and winter, is diminished. Though the public money expended is somewhat smaller than last year, the amount raised by the people is larger, by a few hundreds. The apparatus and equipments, as well as the whole character of the education imparted, both in the Common and Grammar.Schools, seem, us far as can be ascertained from these tables, decidedly on the advance. But to be somewhat more particular:-

1. And, first, allow me to call your Fscellency's attention to the effect of the additional grant made to the cause of com-
mon education tro years ago. It is mell knonn that tho Le. gislature of 1857 voted a thinl moro towands this object. This morement I cordinlly supporten, in the hope, mninly, that such an aldition routd form $n$ great boon to those tencliers faboring in tho mone sparecly ectsed diatricts. Though disappoinied in this expectation, in consequence of the increased number of teachere, it wna gratifying to observe from last report, that 5000 more cliblden were receiring cducation. That this enlarged atlendance is chiefly to be attributed to this additional allowance, is, wo think, nbuminntly apparent, in tho fret, that whilat, during the winter of 1857 snil 1858, thero was nn increase of 2428 scholars nbere tho preceding, tho last summer, when the grant was mithitrawn. there was $n$ falling of of $365 \%$. In these circumstances, I think no ono can hesitnto to admit that this ndlitiounl grant imparted a powerful inspulse to the cause of education, at lenst, in so firr, as the quantity is coneerned; or to regret, that it shouhd have been found uecessary to sihdrare it at the end of one brief yenr.
2. Agnim, the reduced differenca betreen the mumber of sehools thught in winter and summer eeems to demand a remark or two. In the last statistical tabler, the Returns of the number of Schools showed a difference of 200 more in sunmer than in winter. In the iablea appended, this difierence is reduced to 142. One of the grentest ampediments in the way of progressive ndrancement in the enuse of educntion, in this province is the tempornry duration of the great majority of our schools. The irregularity of the scholar is $n$ serious obstacle in the way of progrese, but the closing of the school altogether, for momhis consecusively, if not for a jear or more, is still worse. Various rensons may be assagled for this stato of things. The nomadie habits of the tenchers thenselves, the practice, in some districts, of emploging female teachers in summer and male in wiuter, the untemumableness of two many school-houses in winter, the ifforance or the erroneous view entertained by 100 many parents ;-these, nad suel, liko reasons, conspire in shating up a great number of schoolhouses. L3ut be the enuse what it may, it is injurious in the extreme, to the general interests of educution. In such circumstances, no real progress can possibly be made. At tho very time when the scholars are becoming acquainted with the tencher, and the tencher with the scholars, does a separntion tuke place. When, after the lapse of a yent, or haff $n$ year, the school is agnin opened with a new teacher, the scholars are about hutf the tume of his sojourn in their midst before they arrive at the point where they left off with tho former tencher; and thus it is there are hundreds of our youthful population, who are enrolled in our tabular state. ments, year after year, as receiving instruction, to whom that instruction is of little or no practical benefit in after life ; and if it is so disnstrous to the rising generation, where, we would ask, is the cconomy or eaving to the parents. It is the most expensive education that children can possibly receive. It is encouraging then to observe, that in this matter, there appear to be some symptons of amendment. In the nusence of a compulsory ennctment, requiring a certain amount of attainment, or a certain period of regular attendance at schoolwhich, in my upinion, ought to constitute part of the provision of erery national system-I know of no other more effectual remedy for this state of things, than to endeavour to elerate the public tone in reference to the value and benefit of a thorough education.
3. Again, in looking over these tables and comparing tiem
with those of ingt year, there would zeem, as alrendy hintect, to he condidemble improrement in tho quality of the alucation given. 'The nppamilus, and the various extermal rquipmenta, ateli ne, tho Schorl-13egisters, maps, Jlachlmarile, itic., nro much more manjlite. Tho mimber of eommon schoola, in which Gmmmar, Geogrophy nad Classices nro trught is vasily inerenect. Tho whole conlition of tho Gmmenar Selomila, the numbier of pmpils in the ligher bmuctice, ns well as the general attendance, have all undergone very marked impmement, noll fmm nll this, wo think, wo aro warmatell to conclute thane tire Normal Scliool ia beginning to tell, both directly and indirectly, thronghout tho eountry. 'Thero aro now upwnels of ono humbied normal iminal Teachers engngen in diacharging the duties of their vomation, lirenghout tha length and breadih of the 1'rovinee, and there, iftrue to themselves, must oxert sono influener in elevating the atmulard of Ienching qualifirntion.

I linte alnays maintanined that umber tho mant faromble nuapices, the benefit of the Normnl School would not be felt to nay grent extent, throughout tho Province. in leas than five years; nud the above fact would seem to indicate the soundness of hilis view, that Inatitution having now been in existence nbrut the space of thace years.
4. The rum of $£ 600$, lins ns usual, been expended in the purchnse of Scheol 13ooks, whicit have been proportionally diarributed menong the various School Monrils. The Vouchers of the reception of these llooks by the different honrds of School Commissioners accompany this repprt. I think I can now congrntulate the l'rovince on the near prospect of a mio formity of School lisoks. I hava been niming at this ever since I entered on the daties of my preacut office; and this jear comsidering the l'rovince as ripe for the change, a great proportion of the above sum has been expended in tho purchase of the Irish National Scries alone. The firm of A. \& W. Mackinlay has stereotyped all those of the acries required by the Common Sclools of the l'rovince, which are fold at a lower mate than uny other class of Schnol Books now in general use. Other booksellers are importing the same serine, and the Slorekecpers too, throughout the conntry, are begis, ning to see the necessity of Leing well supplied with the sams: so that, in the course of a year or so, a complete uniformity in the School liwhs, used shrunghout the Province will prevail. Out of the $\boldsymbol{f 6 0 0}$ granted by the Province for the nbove object, f.jo hans heen paid to M: II. Reid for 1000 copies of hie publication on Greormphy.
6. I ramnot here omit noticing, lhat nothing has been done during the pait year relative to the School Libraries, my viewa on this suljeet have heen set forth in several sucsecding reports. I an thomurhly convinced that there is no wny of giving entisfaction in the dispensing of this boon, and in the distributing of these books, but by allowing the people to make their ourn adection. For this purpose a eantogat of suitable and proltahle llooks ought to tre prepared, to receive the sanction of the l.egislature, and a llepository opened, in some central locality of the Province, for their reception. In May next, had it not been for the net of the Legishature of last acssion there would have been, not less than $£ 2000$ due this fund, which if judiciously expended, would no far in laying the foundation of a pretty extensive Library, nod, which, being maded to year after year, would be the means of diffusing among our population an immense nmount of valuable infor-
mation, and tend largely to elevate the thole of our industrial and moral cconomy.

The only other maller nppertaining to the tables on which I slall touct, is that of the distribution of tho public mones. In examining the refurns of the Ibands of School commikioners of past years, an well ins of lie present, I haro been altuck with the great diversily of allownnce granterl, by the tifferent loande to tho same class of teachers, and, havo genemils found, that in shose very seetions of tha country most energetio in the furtherance of clucation, and where, in consequence, there is a much larger number of echools in activo operntion, that in these very sections, tho first noll scoond class tenchers receive tho smallest amount of the public funds. This wo hohd to be a grent handship, tooth to the tencher and tho section, in such circumstances. To tho former, it is so, for ho lins len $n$ fection, whero ns $n$ first class tencher, ho reccised of public monog, say $£ 18$ or $£ 20$ per nanum, nud he in notr Inhoring in monther acetion, where ho biolls the very anmo rmok, nad yet he only receires nomo $£ 10$ or $£ 12$ of public money, nul the other clasares of tenchers in like proportion. 'an the Comminsioners of the rection it is an equal hanclahip. They receive, it may be a fnir propmation of public manos, nccording to the principle on which these funds am npproprinted. luat they aro genlous in tho promotion of education within their bounds, or perhaps, it shonld rather be said, tho peoplo themselves nro zenlous in the enuse. This, ns a matter of course, increnses the number of schools, which ngnin increnses tho number of tenchere, and compels the lionrd to reduco proportionally tho allowance mado to each tencher, so that, what mhould constitute n ground of greater encourngement, becomes the very reverse. Now it appears to me, that two things.ought to bo done, by which this hardship may be remedied, or nt lenst grently obviated: First, a more thorough ciassification of the tenchers, both ns to scholarship nad proiessional atninment ought to be mnde. And this, in my opinion, can only he properly done, by a Boand of Examinntion, aiming to bring the same class of tenchers, nill over the Province, up to the enme ecale or standard of qualifention. Even without auch $n$ Hoanl of Examinatora, much might be effected by the different Boarrla of School Commissioners, who, in granting licenses to first and ecoond class teachers. shoubd strive to bring all to the same standard. For this purpose, I have appended to this report, a gradunted sealo of qualifientions for first and eccond class tenchers respectively; and it were well that the Iegislature called the nteention of SchoolCommissioners to this matter, as what, at any rate they should seek to nim at. Then, it should be seen that the teachera of the same grades, receive the eame amount of public money nil nver the Prosince irrespective of the character of the school taught. Now, due caro taken in the granting of licenses, this methor would form a powerful stimulus to tenchers to promote their own improvement. Rendering the state provision dopendent on the qualifications of the teachers, it would inspire them with reanimated diligenco to strive after higher and higher attainment. The supplementary allowance mised by the School District would form a sufficiently powerful motive to secure the diligent discharge of professional duty, and to give character and efficiency to the sehool. This is the principle on which the Committee of Council on Educntion in Britnin acts, nud it seems universally admitted to be the best calculated to elevate the whole inner life of education.

It rill be observed that there is no statistical information
given in the tablea regarting tho 1'rovincial Academics receiving public money, as mas done in my last report. The reaton of this is, that I liare only received ono lectum from theso Acniemies, nud thoao that came to hand last year, were exceedingly defective in many important particulars. It appears $t 0 \mathrm{me}$, that this Prorince lins now reaclied that position in its cilucational history that solong as it is destitute of a ge. nemal litemry anis philosophical liniversity, it behoves it to givo tho highest possible encouragement to these inatitutions, secing that they form the only intermediato link betreen our lefles tnught Common Schools and the Denominntional Colleges of the land. It ought to be ecen that the $\mathcal{E} 1600$ or S1700, inclusire of Dalhousio College Iligh School, aro instrumental in sccuring a atyle of education worthy of the nge, nul not expented on the cilucation of those who might nud ought, to bo attending tho more adranced common or Grammar Schools of the country. If this ent be nttained, instend of begrudging ench a anm, it ought, in my apprehension, to bo enlargel. Ihave to express my regret that it lins never yet been in my power to sisit ollicinily theso Aendetnies in ncosrdanco with the instructions haid down in tho 30th l'aragraph of tho present eluctional enactunent, viz.: "That tho Superimtentent many visit nll Academies dmaniug support from .the pubslic funds, inspect their dixcipline and necounte, offer sugges. tions for their improvement and report on their state and efficiency for the information of tha Executive and Legislative." It is my intention howerer, nt the close of the summer ferm of the Normal School to visil theso Institutions, in due form. and to report accordingly.

## NOLB3AT, ASN MODEL, SCITOOLS.

These provincial Institutions continue to prosper. The number of lupil-'Teachers in nttendauce is still on the increase. During the winter of $18: 50-58$, there were 61 PupilTenchers and threo pasing pupils. Of theso at the end of the Term 8 obtnined first class certificates and 8 scholanhips, and 33 obtained second class certificates. Last summer ecssion, there were in attendance 46 Pupib-Tenchers and 4 paying Pupila and 1 Agriculturnl. Of these, one reccived $n$ Grammar School Diplomn, 10 a first class, and 11 a second class. At the end of this 'l'erm there was, for the first time, since the opening of the Normal School, no distribution of Scholarship, in consequence of tho Withdrawment of the grant for this purpose at the last mecting of the Iegislature. This withdrawment was to me a matter of no ordinary disap-pointment, as I had been led to believe, that the sum granted for the purpose, two years ago, was to bo consilered part and parcel of the current expenditure of the Institution-a belief this to which I had often given expression at the public neetings held by me throughout the Province on the suhject of Education.
llacing the half of my salary to the credit of the Normal School, the whole sum required for the support of the Normal and Model Schools does not exceed 5750 per annum, and surely no one who knows anything of the nature, design, and importance of these Institutions, will venture to say that this is an exorbitant amount ; but that on the contrary, it is exceedingly modernte. If the success or efficiency of any system of popular education, depends on the living agents or schoolmasters, and if Normal Schools are intended, and form the only machinery yet devised for the purpose of qualifying these liring agents, surely no one will say that, in an expen-
diture of $\mathcal{L} 40,00 \mathrm{n}$ or $\operatorname{fin}, 0 \mathrm{nn}$, fisin is a large sum to be appropriated to that which ean alono securo the end designed to be servel by the E.jn,0no.

Ibut wn go a step farther, and maintain, linat there is no aimilar Instifution with the same equipronen and staff of officere, either on thia, or the Oll Continent, supprorted at the samo materato mic. Without imvelling begond the neighbouring Irovince, in the Edacational liall pased by its Iegislaturo Inst winter, the sum of 6s. per week is granted to overy pupil attending the tmining school in Now Branswick. And what would this itself nmount to, wem the samo sum roted to tho Pupil-'Teachers ntending the Normal School at T.ruro? According to tho attendance at tho present 'Term, it would amount to not less $n$ sum han $\mathcal{S} 150$ yer annum; and so it is in other Provinces nul Sentes, 1 know not ono Nominal School on this or the other sido of the Athantic, whether Natiomal, Azsocintiomal or Denominational, that loes not muphort cither, whully, or in part, the slublents in nitemhnee; amil amroly, EluU a year, given not in an elcemonymary way, but na tho rownal of diligenco nud success in the proxecution of their asulica, is a comparatively small sum to approprinto to euch nin object.

It is, therefore, carneasly hopen, that the legishnturo will reconsider this inatter, and in its windom, aed tho propricts; not only of renewing tha grane of $£ 100$ per amnum, but of placing it on a permanent foating, so that it shall bo considered part of the current expentiture of tho Institution.

Did the Jegisinture, in its liberality, sce fit to grant tho E 100 on which wo caleulated last year, in ondition to the $\mathcal{L} 100$ for the present $y$ ear, it would bo uf immenso service, in the purchinse of $n$ consulting or reference libmry for the Normal School. Tho hundred pounds grauted by the Province for providing 'Text-13ooks and Stationary for tho students, Fucl, repnirs, man-servant icc., aro barely sufficient for the purpose, as will be seen in the necompranying sacoumts. The Instilution is now well provided for working experiments in Chemistry nnd natural Philosophy, $\mathfrak{£ 2 0 0}$ having been voted by the Ingislature for that purpose at the opening of the Institution. Jut we aro still entircly destitute of a consulting libmry for the Normal Studento-I mean a Libitary made up of a good sclection of Dictionarics, Gazeteers, Grammars, celebrated School Houks, on all branches of knowledge and n full nasortment of trentises on the science and art of teaching \&ec, and to which the students, might at all times resort for reference and consuliation.

The Normal School is now in session will a larger altend: nuce than on uny former occasion. There were earolled 73 Pupil-Ieachers and out paying pupit. Some of these are students who formerly atlended and graduated, and who are evidently anxious to araive nt greater proficiency in the practise of our sjstem, and yet notwithstunding this increase, it is not in my power to supply as much as one hatf of tho demand made for Normal trained teachers. Indeed there are alrealy several districts, large and influential seltlements, that not only give such a preference, but will take no other, and nobly exert themselves to raise the adequate salary.
The Model Schools also continue to mantain their ground, the number since last report having been considerably inereased. The number enrolled daring the past year has avernged 106 and the average number in attendance has been 168. The Receipts nud Disbursements of this departunent of the Normal School, are among the other accounts. The teachers
are neguilting themerliea tu my mitio antiefretion, and proting tho completn practicability of the arstem pursuct, though the frequent clinages liat take plase in tho nilenitance of the seholare, prevent ifa surcess from being en appianent. Nercrthelese, it is my confident lielied lint those chibliren tho lineo stendily atfended the Institution since its enmmensernent, will compara fasombly with hoos of any other arminary, whether of $n$ more initinfory; or nilunced clanacter.

The connection bedween the Normal and Mexiel Sclimi, is now placed on $n$ moro regular and ayelematic plam of uperation, the former imprating to the folure teachera of tho l'rorince, a knowledge of ile Science, and tho intler of the prace tice of Ejeduchtion.

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As to tho Eixperimental Garien nad Farm, litilo need bo snil. It is well known than then npplication malo to tho LegisInture, last vinter,far a grunt af money, with the viour of earrying out the olject motempinted in the purelinee of she lami, ras refused: nall it need not bo womidered at, in consequetice, only one agriculturad atudent made his appearance. Still the time lins not been loat, as thave been enderavoring at my orn expense to do a little tomards the improvement anislocking of the groumb. The tand in thorouglily exhnusted, und before it is capnille of answering the end intended it must pass through a process of cultirntion boll mechnnically nad chemicnlly. For this purjroto between $£ 300$ nad $£ 400$ will bo required in consecutive searls grants of E150. This, horever, would not prevent tho $A$ griculturnd siudents from inmedinte benefit. A emall portion of the grounds might at once be act off for experimental purposes, nad the bringing in and fertilizing of the rest, mould of itsolf be the means of communicating inuportant practical knowledge.

But I do not enlarge, I would ralher refer to my last re. port, where the wholo subject is discussed, bothas to the phan of operation, and the benefles to be derived. If erer there was a period in the hissory of the I'rovine when it behoved the Legishaturo to impart every posiblo encouragement to the cause of Agriculture, it is now. Noser before, were there such favorable opportunities for the ala of inrm produre, or such remunerating prices for this produce; and never before was there auch a dessiro manifested to inrest capital in land :-and now therefore, is the time for the legislature to impart stimulus and direction. We do not npprove of the Government of a country, hecoming a great monophlising farmer, through the medium of moded firms and the like, any more than we would nuprove of it becoming a manufneturer or a merchant, becnuse, we believe, such pursuits are farmore successful and beneficinl in the hands of competitive rmulation; but the Legislature may, nayr, it is alike ity duty and interest, $t 0$ impart every possible encoumgement to every branch of the Industrial economy: and there is no branch so imperatisely demanding such an encouragement, or one so iminedintely remunerative to the great provincial undertakings, as that of Agriculture.

In is well known that in addition to the Principalship of the Normal School, I hold the position of Superintendent of Education, and in that enpacity, since I gave in my last report, I have visited every county in the Province, held Teacher's Institutes in all the School Sections, conferred with Commissioners on the condition of education within their respec. tive bounds 太c., \&c. I have also nddressed public meetings
on some branch of clucation at the following places: Stinhenacalic, Windeor, Mantsport, Ianer Ifortont, lienti ilic, LakeInnd, Camanl, Agiestortl, Nictnus, Ianrencetown, Bridgetown, Aumapoíie, St. Climente, Ilillabom, Dighy, imnily Core, Weymonth, Clare, Brar lliver, inrmouth, liebren, Tusket, Spinney's Setlecinent, Iharrington, Sheßurnc, Lacke's 1sland, Nilton, Liverpool, Ilridgemater, Iunenburg, Chester, IInlifax, Dartmouth, Pictou, Diorr Glaggor, Litlle Kirer, Lietho Tmendic, Ilaiser Cure, Ship IInrbor, Ilogomah, Margarec, Moss Liver, Bnalleck, St Atmes, Boularderie, Syiney Mlinee, Arichal, McNinir's Core, Cluyalorough, St Mnry's, Cnledonin, Middlo Musquodubsit, Sterinete, Mugunah, nmal Trillace.

Tho great mpjority of theso mectings was largely attended, and in severnl places, much interest zeemed to be manifested. The great dmatnek to the full beneft of theso meetings is tho rant of $n$ duly nathorized ngency to carry into practical detail tha impulse imparted. This, ns stated in tny lnst reprot, requires the appointment of a thomugh staff of joral Inapectors and till aucholfieers are appointed, periapes tralf of my public Inimn, as Superintemiens of Education, is expended 10 no purpose.
Tho only other matter morling of notice connected with ing procecdinga daring the pmat year, is the commencement of the Journal of Edilucation and Agriculture. I atated in the Jiduentional Committer of tho llouse of Assembly, lant jear, tho propricts of starting auch a periolical : firetly, breausc it wna overy way becoming that $I_{\text {, as }}$ superinlendent of Education, should linvo $n$ direct medium of communication with all the teachers throughout the Province; Seconilly, becauso auch n publication secined no well filted to mise the tone of public feeling on the general subject of education ; Thindly, becauso the intelligence of what was going on in one district of tho Province, might, it whs thought, stimulate oiber districts ;and atill more, fourthly, becauso it nppeared to me, in every way desimble, that that aystem of edirention, whore principles ond practise, aro expounded, exemplified, nud euforced in the Normal and Model School, should be exhibited and circuln. ted in as permanent a form as prossible. In order to ennilic mo to end a copy of this publication, gmtuitonsiy, to every tencher in tho l'rovince, I solicited tho grant of $£ 100$ from the I, egislature. This was reluectl, and, leare being given to publish it, on my own responsibility I issucd the first number in July last. I combined Agriculture with Elacation, be. cause in the provent Eiduentional lial, Agricultural Chemisiry is required to be Inught in all the higher Seminaries; and etill more, because I deemed it a good medium of giving pub. lieity to the reanle of the experimenta in the projected Garden and Farm. The circulation has fully equalled my expecta. tions, and will, I believe, relieve me fom all jecuniary lass for the firat year at least. It is matter of regret and disanpointment to me that senreely $n$ half of the tenchers in the Provinee, for whose benefl it was mainly set a going, see this periodical. I fixed the price as low as possible-a dollar in ndrance-imagining that no tencher, howerer inadequately reraunernted, could fuil to nfford such $n$ sum. Whether some step ought not to taken, by which every teneher ehall be put in possession of a copy, nal by which the Journal may obtain a wider circulation amongst the Agricultural Societies of the Province, is a matter, in my opinion, worthy the considenction of the Legislature.

[^0]She Sournal of Couration ant Egriculture for globa Erotia.

NUMBER, AGE AND SEX OF SCHOLARS --- NUMBER OF CHILDREN.

dURATION OF SCHOOLS - SEX OF TEACHERS - CHARACTER OF SCHOOL-HOUSES.


# TAB13 LE D. <br> ABSTRACT OF GRAMMAR SCHOOL RETURNS. 



## II:-REVIEWS OF SCHOOL BOOKS.

## Mental Abithaetic, dec. By Ilugo Reid.

We are indebted to the nuthor for a copy of the above ro cent tribute to the cause of Elucation. The work embraces an investigntion of the leading fundamental principles of Arithmetic, showing the modus operandi and rationale of the carlier stages of computation. necompmied with illustrative exercises. It contains also a fuw rules for commercial computation with oxnmples for practice.

Chiddren should be thoroughly traned in the principles of Arithmetic, and ns far na practicable be made to understand the reasons for the operations which they perform. It is our practice in the Model School to teach these principles and reasons viva roce, in language and style silapted to the mental development of the children.

Mr. Reid is greatly in fivour of a decimal currency, and devoles two or three prages to this subiect. He adopts ono pound as the unit, when of course the first planee to the right is tenths of $a$ pound; the secomd hundredhhs, and so on.
There is no doubt ns to the superiority of the decimal currency in point of simplicity and convenience, nod we would be plensed to see it ndopted in Nown Scutia; but we prefere the common American system of dollas and cents to that proposed by Mr. Reid.

## AGRICULTURAL.


1....THEORY OF AGRICULTURE.

## OF COMDION SAITT, NITRATES AND SULPILATES.

Common salt is a manure, the use of which is not only wide spread. but very ancient. In large quantities it is injurious, destroging vegetation rather than increasing its growth. In moderate quantities, however, it has been found on some soils very valunble. Such are most likely to occur in phaces far distant from the sea. The sea breeze carries small quantities of salt spray far inland, and deposits it upon the soil. All who live in the vicinity of salt water, know that its peculiar smell may often be perceived at a distance of many miles in the interior. For this reason salt is not usually found to be of much value as ammure near the sea.

A small proportion mixed in with a compost heap is likely to be useful. Another good way is to dissolve a little in wa. ter used for slaking quicklime. The compound thus formed is very cuergetic in its action upon vergetable substances, and has been found an admirable application to many soils, parti cularly on those where there is much inert vegetable matter that can only be decomposed with great difficulty. Common
salt is, necording to the popular delinition, composed of chitorine and soll.
There are other combinations of sold, that are hegiming to be used in this country, and lave heeng gremply appoved of in biarope. The most important of these is the Nitrate of Soda. This is composed of nitrie neid (a substance before described) and sodn. The nitric acid contains much mitrogen, nud is therefore very active ns a mamure. One or two ciwt. nitrate of sola have been found, in many instances, to produco a very great growth. It gives a bright dark green color to the leaves, mad inercases the fiek of grain. It aliso produces a marked improvement in grass crops and pastures. Grain that has been grown by stid of this manure is said not to give so much fine flour, being richer in ghten, and having a thicker skitn.

Nitrate of sodn is in some districts of Somh America a matural product, being found in a crust on the surface of the grount ; it is so abundant ns to be brought away by the shipJond, and may be obtained at such prices as would warrant the application of it in moderate qumatities. Other mitrates are manufactured which would be excellent manures, but the price is generally so high as to forbin their use with profit. Whenever refuse nitrate of potath, that is, common salfpetre, can be obtnined, or refuso liquid in which it hat been dissolsed for piekling ment, ete., it shonld be mixed into a compost henp, and carefilly preserved.
There are several compounds containing sulphuric acid, called sulphates, that are also valuable whenever they can be had at reasomable prices. Those that have been most commenly emploged, are the sulphates of magnesia and of soda. From their composition, both of these must be useful; bift it would be necessary to exercise a degree of caution with the sulphate of magnesia, as it is very soluble, and much of it might do harm. It will be remembered that magnesia in any large quantity is quite injurious in the soil : small quantitics are very nefinl.

The refuse liguid from salt-works after the sult has been erystullized out, contains somn solutde compounds of lime, magnesia, ete, and might, applied carefully in small quantities, be useful. J'ouring a little ocensionnlly upon a compost heap, would be the safest and best mode of tryiug it. A large dose of this liquid would be dital to vegetation.

## II.-PRACTICE OF AGRICULTURE.

## SPECIAL WORK FOR APR:I.

From the earliness with which our winter set in, the motion seems to be pretty prevalent that spring will speedily be ushered in. But be this as it may, it is perfectly clear that the Farmer should now be busily occupied in making prepnrations at least for his spring work.

Maxumes.-System with the Jarmer is of primary importance, and so soon therefore as he has finished assorting and filling his woodhouse with a good supply of oak, Fuaple, birch or beech, he should look afier the hauling of his mumure to the fields. There will be little or no loss while it freezes and remains so, and as soon as the grouml thaws it may beslighty covered. Here it is, on the fied where it is to be used, and where twice or three times as much can be applied to the soil in a day, as coull be done if it we, to be taken from the barnyard or cellar. The finer it ran be reduced, the more prompt will be its action, and large: the crop, other thing; being equal. In order to effect this as soon as the frost will permit, work over, pulverize and mingle the mass, returning it into a well ronnded compact pile. Leave two or three small, long stakes inserted in it. and occasiomally draw these up and notice by their warmoth how far fermentation has gone on,-as nothing more than a gentle heat should be allowed to take place. $\Lambda$ mamure heap in this condition, mingled two to
four inches deepr in moist, prorous soil, cannot fril to produce favourable results,
 for proning loth Grolinal and Espaliar or Wall Trene. Lect nul the praning knife her yprod. It is with proming as with thimang. We forl reluctant to pull not $n$ thriving lonking young turnip or carrot phant, though it is evidently two or three inches too near its neighbour. We allow it to remain, and the reanlt is that both are small nad rancid nad wiry.So with iruit trees nod bushes. We spare a fine healthy looking shoot or branch just beenuse we see a goodly number of hower buds upon it, which it is hoped may be turned to profitable account in the nutumn. This is poor ceotiomy:Not only will the fruit on the shoot itself be small, but all around will suffer both in sizo and flavour. Spare not then, we nguin say; the pruning knife. Much, of course, here depends upon the age anil the mature of the growth of the tree or bush as to how the pruning kuife should be applied; but there is one rula about which there need be no meerminty, and thit is always to keep the centre of the tree or gooseberry and current bush as open as possible, that a free circulation of nir many be allowed to pass through. Trausplanting.-This with the first half of the month of May is perhaps the best time in Nova Scotin for Iransplanting treca and shrubs. It is a safe principle never to tran-phant when the leaves aro ox panded, but either after they have fallen in autame, or before they are ont in spring. In Nova Scotia, we have no hesitation in saying, that the latter is preferable; and that mainly because of de unual severity of our winters, and the disastrous effects of the frost upm the rootlets. Now, then, is the time for transphantation; and in this two things ought to be attended to. Firat, every care should be taken of the small roots when the tree or shrub is raised; and wherever the tree is planted, it should be at the proper depth and in soil exnetly adapted to its mature.

Stems.-It is not only well to have the Farm all plotted and each field assignedits ciop for the year, but to have all matters combected with the seed in a state of preparedness for bring committed to the soil when the proper time arrives.Much more depends on the character of the seed than many people stem to imarine. True the chanacter of the seed avails linte when tine soil is unfertilized and mentivnted, but, when this is duly attended to. the seed is of importance. It should consist of the best of the sort in possession, anch when the seed is got from any other quarter, amd his it should be every thind or fourth year, care should be taken to get it from a soil and climate different from those to which it is tramsferred.

## LEGISLATIVE AGRIOULTURAL MEETING.

[Rspontsd my Jolly C. Moore, yon the N. E. Farker.]
Subsi:cr foll Discussion-The ditly of the Government to encourage the levelopment of its industrial resources, especially tha improvemeyt of its Agricullure, as being the foundation of the prosperity of its people.

The members of this Society met in the Representatives' Inall on Monday evening at $7 o^{\prime}$ elock. The attendance was respectable, and ineluded many gentlemen whose practical opinions linve been fortified by sage experience in the art and ssience of farming. His Excellency Goy. Banks, presided.
Mr Fanst, the Sceretary, reported the names of the following gentlemen asa Committec of Arrangements for the meetings of the Sociely, and tive report was accepted :Messrs. Bagg and Peck, of the Senate, and Messrs. Min.f.er, of Coleraine, Paof: of Brimfield, Saborest of Newbury. Baniest, of Auburn, and Nasif, of Granby.
Mr Finint, the Secretary, then read the following resolutions ns the basis of thay evening's discussion :-
Resolrees, That it is the duty of evers cisilized government to encourage the development of its industrial resources, and especi-
ally the improvement of its Agrieulture, as heing tioc truc foundation of 1 e prosperity and security of its people.
Resolvect, That the formation of Furmers cifuls for the dinscussion of Auricultural topies, the pmomotion of Ayricultural Lli. braries for tho use of the peoplo, the holding of local or town fairs as anxilinry to the country and Stato exthbitoons, and the collection of Agricultural products nad objects illuxtrating the various departments of tho Nutural Ifistury of the country, are annong tho most practical modes of developing the Agricultural intelligonco of tho community.

Gov. Banks, although ho snid ho was unprepared for the task, spoke to the resolutions at length, and with great ability. We can only furnish a brief epitome of his specel, and those which succeeded it. Ho argued that it whs the duty of the national goverament to give its protuction to the interests of Agriculture, although the extent of that protection was a aubject concerning which there wae much diversion of opinion. The substance of his observations on this particular included the assertion that, in respect to all our material industrinl intereste, the duty of the government was to protect them to the extent of exneting as much revenue as sulliced for its support, and no more. Ragnarding the duty of tho local government in encouraging the: industrinl interests of the people, Ilis Excellency thought there could be no question. generally ; but the query arose- What is the best method for their development? Tho people of the Commonwenlth. he believed. to bo willing to sustain and encourago that of Agriculture, us it was with us, as with the state at Inrgo, the origimal teniverral intereat from which all others had to draw recruits to fill the avenues made in the profesgiomal and mechanical occupations by retirement and death. What dial we see in Siate Strect every day? Nen born in loston, building light the professional and commercial fane of the city? No! but men from the country, who came here, not with jaind look and weakened minds-men with the strong, solid frames, nf such as breathed the mountuin air, and lived by healliy, invigorating employment. And as it was liere, so was it everywhere else. In this respect the encouragement of ngriculune was important. But, in another point of view, a more liberal attention to agriculture was necessary as tending to show what the true wealth of the State was.. We required from time to time to realize what we could do. We ought to know, and how slould we manage to inform ourstlves? Only by the accumulation of the products of the State-their aggregration precisely in the way followed by commercinl men in regard to the products in which they had a pecoliar interest. If the process showed that we have wants, it also told the mamel of their supply, nod was useful in this special degree ; it it exhibited the power on our part to export, it showed our strengeththat we lund the whole world to trade with, and to draw upon for whaterer our requirements suggested. If such ate cretion of prolucts was not also made for the purpose of example, even, improvement would hag Jehind. Comunanity of example and opinion have ever been the best incentive to adsancement and improvements; for it had always been found to be the best way to intrelange visits where the results of each year's excliange and labor were brought together, whore comparisons could be instituted and valuable suggestions taught. No better mode of proceeding could be adopted than that specilied in the second resolution. Bring on, then, our products, and show us what has and what cen be done; and, althongh we may not attain to a perfect organization and superior merit in a day, or even a series of ytars, we may ultimately reach a position which, willoout incentives, we would nevel have reached.
His Excellency proceeded to saly that he had noidea until last summer of the extent of the agricultural interest in tho Commonwealth, but he determined that he should place himself in the best position to know. Placing himself at the direction of his friend, Mr Secretary Flinst, his first inquiry was relating to the places and periols where the required information was best attainable. But alniost every portion of the State had its agricultural exlibition about the same time, and but a few of the whole couli be seen by one indi.
vidual. This certainly was not right, and nothing but faiture could proceed from such malarrangements. l'cople must go beyond the limits of their own town, or district, or county to see what they have not been accustomed to sea at home. Thos ought to linve opportunity to see the bost pro ducts of the sinatenggregated, and then thoy would be ready to exclain-" Why is this? What cattle nod products I see hered Why is it that I have never heard of such before?" Of course men thus surprised would be very apt to imquire how lhese superior mimals and products were cultivated and perfucted-glean lessons of value in the answors -and hence tho value of the example, which never could have been had through a mercly local exhithition. As exhibitions of what we have in Massachusetts, they are insullicient, for they furnish no idea of what we can or maty do ; and ns this defect constituted a great evil, its correction slould be kept for a morsant out of sight. No opportunity was furnished at meatings ior discussion-althongh there weve very fine speches made-excellent anecdotes related, and smail talk plentiful. The lenst instruction in respect oa aything is found in an after dinner speech, for in them there is just a glimpes at practical matters. And so one might go from table to table-from pen to pen-and solid information in. variably keeps well aloof. But by the very nature of their gatherings, farmers require instruction.- They linve a previous knowledge of whitever is worthy in their localities, and they do not require to have it repented. But example and discussion are both useful; therefore, let useless practices bo abandoned, and clabs be formed and discussions take place all the year through, and the result would turn oat good. To spend one day or two per nanum in sober trining, neves would be of any value. The interest of the Siate demanded that a better system should be inaugurated-a more nd. vanced and profinblo cultivation of the soil-and to effect this end, discussions such as were recommended in the resolution would be highly bencficial. The State alrendy gave some $\$ 13,000$ per annum for the encouragement of Agriculture, and was probably rendy to be more liberal, in the shape, it might bo, of employing agents conversant with rural affairs, to visit the several localities, and tench farmers the most improved manner of enlarging thoir products; and in this connection it would be well to instatute such clubs as the second resolution specified, that these teachings conld be discussed and their value applied in practice. lit would ul. timate in a much greater benefil to the farming interests than the present system of local shows, and at the sume, or rery lithe more expense. County exhibitions might be rethined with somu degrea of profit if their mectings could be distributed over the districts; but, periodically, the people should be called together to see whint the State could do; for tho farmer's prosperity was emphatically bound to tiat of the Commonweath, and whatever lie did to improve his own interests, in similar degree did he contribute to those pertaining to the general welliare. These observations, Ilis Fxcellency said, in conclusion, were thrown out without any preparation, and he hoped the discussion would have such attention from the meeting as to elicit the most reliable and sufo opinions.

Simon Brows, editor of ihe N. E. Farmer, was called on by IIs Lixcellency to :peak.

Ile snid the question betore the meeting was one which had occupied his thoughts for many years, alliough he doubted his competency to lay his viesis respecting it brfore the audience in so clear a manner as he could wish. He proposed to confine his observations to the sulject of the second resolution, which related to the State. Massachusetts stood ligh among her sister States in point of education, morals, arte, sciences and apriculture. Her institutions were of the most liberal and enlightened character, had wrete everywhere copied because of their perfection; her laws were approved on the same grounds, and no section of the union was oftener looked up to and copied as an example, than Massachusetts. It would be strange, then, if she should be found to have neglected any one of the prominent interests of the people; but it was otherwiso with ther, for she bad done every-
thing to promota their welfare. . Glance orer her territory, and it would be found that her charties recognized every citizen within her limits-that those who were lowest, and Who had the least eare from those who ought to provide for them, are never forgoten or neglected. She had made ample provision for the alleviation of the unfortonate and tho suffering. Looi at her alms liouses ! Llow many are there? Not only her own citizens, but peoplo from nlmost every mation in the earth. Could such a State neglect any one of her interests? Decidelly nut! Bonnties have been in turn offered by her to evaryching which needed protection. The County Agricultural Socielies receiva $\$ 12,000$ from leer per annum, and in past times sho lins apent much money in :heir behalf: But had her genenosity always been properly apprecinted, andherkindnessacknowledged? They werenot. Some of the counties were endowed with as many as four societies, receiving, severnlly, bounties nmounting to $\$ 400$ and $\$ 600$ annually, nnd what had been the conduct of some toward this liberality? If a farmer raised a pair of fine oxen to which a commy prize was assigned, the State required of him a specifie ratemun how he hal acomplished it, so that his skill and modes of practice should bo impurted to overy other citizen of tho State. And this ought to end the whole matter between them-the firmer having recelved the first premiam, and the State ns an equivalent for its bounty, a specifie statement of the manner of producing the article. But it is quite often olherwise ; the infurmation given is frequently incomplete, and the stock, or article receiving the preminm, is taken to other shows, and premiums again awarded, thus perpetrating a frame upon the bounty of the State, and cutting off others from the privileges of a fair competition! These facts are well known-that the same plowman, the same slock, the same old rug, regetnbles, grains, and implements, afer having onco received the highest premium at one exhibition, are entered at another med again paid the highest prize! This is evidently contrary to the intention of the Legishature, a misapplication of its bounty, and certainly not the spirit in which the generosity of the State should bo met ; in order to prevent such practices in future, the Legislature should emact a lav that there should be only one agricultural society receiving bounty from the public funds in biach cousty in the State. She long ngo employed Mr Colsmas to make agricultural surveys of tho counties, and to whose valuable reports we were so much indebt-ed-for sending Prof. Hircucock abroad at har expense to inspect the agricultural schools there, and show us what we could do at home, il we had the will; for publishing works on the Fishes, Quadrupeds, Insects and Geolugy of the State, ench being a monument of her liberality and high purpose, and for establishing a Board of Agriculture which she still generously sustains. Had she ever becu parsivionious? By no means; slat ladd done all she ought to do; we oughit to be satisfied with her liberalaty, and if we had not made a progress infproportion to its extent, it was our fault, not hers.

What, then ought to be done, as \{hings now stood? Massachusetts should legistate for the farmer as fintiffully as she lins done for the manulacturer. Scope for that duty was ample. Let her, mmong other things, fix on at mode for the measurement of milk. What is a can of milk? a myth, a fabulous hydra, which noboly knows or can reasomably pretend to undenstand. So far as it could be practically described, it was $9 \frac{1}{2}$ quarts when the producer was concerned, and 7 when the buyer became interested, and 10 quarts when resold to city customrs:! Let us know what a can is, so that those who furuish large quantities of milk per diem for use in the city, may know how to s.ll. In this connection, proper officers should be employed to investigate the quality of milk, and deteet its adulteration. One fourth of it would be found to be Cochituate water after it eane through the hands of the sellers, as could be proved if pains were properly taken. So much for law; and as for money, none was needed from the State beyond the bounties already awarded for agricultaral encourngement. If the treasury was wide open, Mr Browa said, he would not take a dollar to add to that bounty. Farmers did nut want it in order
to nituin the informrtion they need. In respect to naricultural information the hest way was to commence at the soit, nad edurate the farmar thence unwards, so that he might be prowil of his products as the mechanic was of his invention or the sculptor of his finislied marble. Make a man proud of his vocation, and much to ennoble it would be accomplish. ed. Why was the lanll not filled to night? Because the peoplo do not caro for farming, allhough thoy nll neknowledge it the organic element in the general prosperity. If this were a discussion of aunse political party, llearesents would toe crowided, and the spenkers checred with nudible npprobation. These vacamt seats are so many records of the indifierence of tho community with regard to ngriculturo ns an oceupation, and of the importance of instituting a series of mectings and discussions umong the people themselies. to nid them infolmaning a butter knowledge of the practical operations of the farm, and of the elementary principles that are indispensuble in its profintile pursuits. The person who wrote the articlo in the Allantic Alonthly, which lins created eo mueh comment, was right in his estimate of some farmera; but he made a misake in constituting a general rule for the exceptinns he hal too truly herfore him. The faule lies mainly with the firmer that his anling is thought ungenteel: ho is rontent to herur sud proft not-to listen perpetuanly to others and proituce mothing mental himself.

Now what is wanted, is simply that the farmer should understanal his businesa-that ho showld kinoto hato to do tohet he widertukes-and thut he should endeavor to make his son menderstand it as well. Ite had no othjection to Col leges for instruction in the seientific principles of agriculture, for the investigution of theories, or for any gooll purposes which they miny subserve, but our first elfort, the effort of the present moment, must be, to begin with the simplest elements, and teach them in various portions of ench county in connection with the true prineiples of the practical operations of the farm. If a college were already in operation, ho knew of no young men ready to enter it, merely bechuse they hail enjoyed no opportunity to quatify themselves for such a position. Who had tanght them, and where? On the contrary, we shomb begin at the lower round of the latsder, and climb proaressively and surely to the top. This object would be effected if farmers only loved their occupation. They would cherish it, and talk of it carnestiy, and men would listen tothem and be taughe to prolit by their works. Prompted hy this love of their occupation, individinal efiort among farmers would soon work wonders, arid on individual , fiorl everything, almost, depended. In con. junstion with Farmers' Clubs no limit could be placed to the good it would accomplish; and if gentemen wouk go home delermined to instime them, if in five years feence they finil ed to pay for themselver, Mr Brows said he would. fif able, be responsible for the intermediate outhy. Besides the credit of aiding the noblest of all human interest fo the mark of its hiyhuest inprove ment, it should be. tenderstood that the benefts of such issocmatons, the flectanly considered. would be important nod usetul to individuals in tenching them to combense and express the promptings of their minds. Ar Bnows concluded by ndvising that no society should he allowed to duplicate its premiums year and year again, in thyor of the same article or animal ; that countics spend a portion of their bounty money in the encouragement of meetings and discussions among the people, as where this had been done in Niew Ilampshire and elsיwhere, the very best rerults. had fullow to and the meeting might rely on it that such groud womld follow an they had nover known to proceed from may hicherto tried means.

Sasfomb Howamb, Esit., of the Cullitator, was the next spenker. He endorsed the sentiments of the previous speak ers; adroented an extemed area of comparison in connection with the products of the State, and illustrated its benefits by relating sundry uppropriate unecdotes; recommended but one socies y in countices, which should have its exhibitions distributed over the territory; approved of Farmers' Clubs, and stated his belief that a due attention to their interests would emble farmers to add a very large per
centage to their products at a very trifing expense of labor as contrasted with the unscientific manner in which many of them operated at present.
Jons Bnooks, of l'rinceton, spoke in opposition to tho importing of foreign scientific agriculture to American farmers, ns it had always proved untelinble, and in favor of our constituting a science from what our experienco taught us. He appioved of State exlibitions if conducted by the IBoard of Agriculture.
Mr Susf.dos, of Wilmington, put in a plea for the right of every wan to have n purtion of the publie turritory 10 till-in other words, lant it was the burden and duty of Unele Sum, seeing ho lind the menns, to "give every man a farm."
Mr Buown, of Concord, then offered the following resolution for the aceeptance of tho meeting:
Resolred. That the Leevislaturu be requested to pases an aet requiring each county society recevimg a portion of its hounty to duroto one thiril of the whole amount receivel to tho support of Agriculcural mectings and discussions in various parts of the county.

After being discussed by Rev Mr liabmidon, of Pepperell. W. J. Búckinssr:a, Esq., and othere, the resolution of Mr lunown wns haid on thes table, with the view that time should be granted the socicty to consider and act upon it deliberately.

The meeting occupied over two loours; and at its closo Mr Vibist mbounced the subject for discussion Monday evening to bee, "What breeds of" stock are brst udapted to mixed farming?"

## I.ORD LONSDAIF'S VIENS OF IMPROVEMIBNT in FARMING.

At the meeting of the West Cumberinnd Society, Lord Lonshate stated "unless they drained well and cultivated green crops, which were the very foundation of ceonomical agriculture, they were going on at a very slow pace. As to drimage, he would just mention that before he thanght of agricultare he was a zealous supporter of drainuge; but he began upon roads, and when he inherited his property he applied the same system to land, and being more convinced every year of its necessity, he had gone on mutil he had attained a lenget which sould surprise some people. It had drained a greater length of land than the telegraph between Iredund and Newfoundhugh, which was about 2500 miles long. The Innd thus drained whs chiefly on the other side of the coment, and was about 10,000 acres. There was a duarter of a mile of trainge in an acre, and tho distance between Valentia nad New York was about 2500 miles, which was abone the length le had drained-and if he had luck to live he should not only have drained to New York, but buek again. Ile believed that with the exception of the Dabe of Northomberland no one lad deroted more cá pital to drainage than he had. Ile believed drainage was a practical bencfit to every one ; the landlord received his rents, the tenant gained, amb the country at large bencfited." We understand thut the Laird of Netherby, Sir James Grahatn, has the merit of laing one of the first proprictors who practised the substitution of tile pipes for stones and sods in drains. We have been informed that it is in this county that this branch of draimge was firat promirently practised, and the first moulds for forming drain tiles maile on the Polmaise pmperty, Stirlingshire, were brought from Sir James Graham's property, Netherby. Lord Lonsdale states that he has drained about 10,000 acres. It would have been very interesting had he mentioned the cost per acre, with the depth and distance apart. Will any of our readers glenn such information and favour the readers of the $N . B$ dgriculturist with a statement.

In another speech, Lord Lonsdale speaks in strong terms of the advantages whicit acerucid from freeing the land of water, principally as regards the health of the stock. In J. Bailey and $G$. Culley's report, the catle are thus mentioned-
"The cattle are a small breed of Longhorns, with a few
exceptions of the Gallowny breed intermixed, particularly along the conat from Whitelawen to Carlisle.
"This breed of Longhorns is not distinguished by any peculiar grool qualities, which is not to be wondered at, when it is consilered that, probathly at this time, there is not one person in the county who pays any attention to its improvement. T'wnity years ngo, Mr. IInzle, of Dalemain, had rade some progress in this husiness, and gained a very useful qreed of Longhorned cattle; but his successors nenlected them, and tho Inbours of the prod old man are totally lost.
"Tho Longhorned mud the Galloway polled eattle are probably the best adnpted to this county of suy other; but the kimil of Longlorns that accupy it at present, mny certainly be much improved, by paying proper attention to breed always from the best males anid females that can be selected. This cud would be tho readiest attained by getting good bulls nnd heifers from the midtand connties, where tho Longhorned breed aro brought to great perfection."

Tho Longhorns now discarled have given way to the Shorthorn. Along with nttention to the breeding of Shorthorns, considerable attention has been devoted to the improvement of the Galloway. An occasional dairy of Ayrshires is to be seen in the county, but a striking peculiarity which we lately observed in passing lhrough, this romby is, that on one side of the line there was inn excellent herd of Galloways, and on the opposite side a herl of Shorthorn erosses. 'There can be little doubt that the owner of each herd believed his own to haso been tho most profitable, ns thry showed that na amount of care and attention had been bestowed on their selection:" It is not improbable that an impuirer amsions to determine which breed was the most suitable for the district would have been furnished with information which, to use a Scottish phrase, would show that "both were best." Many will believe that it is less a question of breed for such a district as the county of Cumberland than the selection of that peculiar breed with attention to the requirenents and general comfort of the mimals. As this county is an extensive breeding district, the question as to the best breed becomes of greater importance to the ngriculturists of the district.

Cumberland was, at the begimning of this century, one of the willest and most backward districts in the country. With an average rainfall of from 60 to upwards of 80 inches in the year at Keswick, it can be supposed that, without modern drainage, except the very driest portions, the lame would be almost wholly unft for cultivation. Nearly the whole operations of the farm were executed by the firmer and lis familynearly all the servants that were engaged were boncled in the farm house, nud the wages were nt a minimum rate.Servauts were only engrged by the half year, to prevent them from gaining settlements. Wiges for men, from $£ 5$ to $£ 7$; women, $£ 2$ to $£ 3$. At the end of the hast century there were no thrashing machines, no drills, nor howe hoes. Now the former of these are in general use, nud the drill and horse hoe is slowly coming into use.

## SCIENTIFIC.

## TIIE PIIILOSOPHY OF RANS.

To understand the philosoply of this beautiful and often sublime phenomenon, so often witnessed since the creation of the world, and essential to the very existence of plants and animals, a few facts derived from observation and a long train ot experiments must be remembered:

1. Were the atmosphere everywhere, at all times, at a uniform temperature, we should never have rain, or hail, or snow. The water absorbed by it in evaporation from the sea and the carth's surface would descend in an imperceptible vapor, or cease to be absorbed by the air when it was once fully salurated.
2. The absorbing power of the atmosphore, and conse-
quently its capalility to rotnin humidity is proportionably greater in warm than in cold air.
3. The nir near the surfice of the carth is warmer than it is in the region of the clomls. The higher wo ascend from tho earth, the colder to we find the nimosphere. Hence the perpelmal snow on very high mountains in the hottest climate. Now when from continued evaporation, the air is highly saturnted with vapor, though it be invisible and the sky cloulless, if its temperature is sumbenly reduced by cold currents, descending from above, or rushing from a ligher to a lower latitude, its capmeity to retnia moistura is iliminished, clouds, aro formed, and tho resule is min. Air condenses as it cools and like a spongo filled wilh water and compressed, pours out the water which, its diminished capacity cammot hold. Ilow sing:lar yet how simple, the phifosophy of min! What but Ominiseence could linvo. dovised such an admirublo arrangement for watering tho carth?-Scicntific Journal.

## REMALABLE WORLS OF IUMAN LABOR.

Nineveh was 5 miles long, ${ }^{8}$ wite, and 40 miles round, with a wall 100 feet high, nal thick enongh for three chariots abreast. Babylon was 60 miles within the walls, which were 75 feet thick and 300 fret high, with 100 brazen gates. The temple of Diam, at Ephesus, was 429 feet to the support of the roof. It was an hundred years in builiting. The largest of the pyrmids is 181 feet high nuid 6.33 on the sides; its hase covers 11 neres. The stomes are about 30 fiect in lengli, and the layers 208. It employed 330,000 men in building thas labryinth in ligypt conains threo hundred chambers and 13 halls. Thebes, in Fgept presents ruins 27 miles round, and 100 gates. Carthage was 23 miles round. Athens was 25 miles round, and contained $3 \dot{0} 9,000$ citizens and 400,000 slaves. The temple of Delphos was so rich in donations, that it was plundered of $\$ 500,000$, and Nero carried awny from it 200 statucs. The walls of Rome were 13 miles romid.

## EFEECTS OF KNOWLEDGE.

The more widely knowledne is sprend, the more will they be prized whose happy lot it is to extend its bounds by discovering new authe, to multiply its uets by inventing new modes of applying it in pratice. * Real knowledge never promoted cither turbulence or unbeliel; but its progress is the forcrumer of liberality and enlightened toleration. Whowo dreads these, let him tremble; for he may be well assured that their lays is at lergth come, and must put to suden tlight the evil spirits of tyrumy and perseention which haunted the loug night now gone down the sky.-Brougham.

## DISCOYERIES AND PROGRESS OF TIIE LAST CANTCRY.

Where is no period since the commencement of the world in which so many important discovertes, tending to the hencfit of mankind.were made, as in the last half century or so. Before the year 1800 there was not a single stembont in existence, and the application of steam machinerywas unknown. Fulton hunched the first steamboat in 1807; now there are three thousand steambonts traversing the waters of $A$ merica, and the time saved in travel is equat to seventy per cent ; the rivers of nearly ecery country in the world aro now traversed by steamboats. In 1800, there was not a single railroad in the wolld; there are now, in Eaghand and America alone, about twenty two thousand miles of ruitroad, costing in the neighborhood of three hundred millions of dollars. In 1800, it took weeks to convey intelligence between Philadelphia and New Orleans; now it can be accomplished in minutes by the electric telegraph, which only had its begiming in 18.13. - U. Canada Journal.

## DOMESTIC RECEIPTS.

 grated carrote, minl $f$ llo, of anct. Salt and spice to taste. Boil 3 hours. To be entell with wine sauce.

Honten Barad l'upmino.- IIaif a loaf of stalo bread sonked in n gunt of milk; 4 eggs ; 4 tablo spoonfils of flour. lhoil of mon hour ; serve with wine sauce. A little green or dried fruit mixed in is a good adlition.
"Wis: Sauce:" without Wink.-Buhter and sugar thickened with corn starch, nom flavored with the rind nnd part of the juice of a lemon.
l'ur-oy kis.-One cup of flour; one egg, bulter tho size of $\pi$ nutmeg. lanke in small tin rounds. The amme rulo is good for nice lrop cakes, buked in cups; or boiled bntter padding.

Ghanima's Batter Pudping.-One quatt of milk; 9 eggs (if you linve got 'em;) 9 table spronfuls of flour, nud a littlo salt. Stem one nnil a half hours-if stenmed just colucugh, dou puldang will retain ito furm, nad it camoot be excelled for delicacy.
 of sifted (stewed) npple, beaten egg, and melted butter-all thorouglily mixed, and linvored witt lemon and sweetened to the tagte. Buke without upper erust. Less butter than the nbove will do.
Alples Custable-T'ake fine apple sance, favor with lemon or rose, and fill the pie plates with it. l'our over a nice custard flasored with numeg or vanilla, nnd bake.
A Tumkir Hohled and then Ibaken,-l'repare the turkey just as if for bnking; then put in a kettle, covering it with water, and closing it with a lid. Buil until quite :ender. Then take it out and brown it in an oven for a few minutes. When put upon the table it will be found very tender nad juscy instend of dry and tough.

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