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MROVINOLAL NOMMAL, AND MODEL SULOCLB, TMUHO, N, 8.




Vol. II.
Ihalifax, Nova Scolia, October, 1830.
. $\mathbf{N o} .4$.

## EDUCATIONAL.

BIOGRAPHICAL SKETCH OF HENRY BARNARD.

The Grecinn Alexander, and others who, like lim, subverted empires, latd waste fourinhing countries and pillaged citien, leaving behind them desolation, misery, and death, have been styled great by the alminers of their monstrous deeds. True gremtness never marks its palt with human wretchedness. It does not ferd umon the ruined fortunes and crushed hopes of fellow-hecings, but thrives most, and brcomes most magnammous, when it sacrifices most for the good of others. It driaks in largely of that spirit which " seeks not its own," but louks abroad upon "the things of others," deeming its most illustrivus and self satisfying acts, not those which brith the largest revenue of selfish gain and glury, but those which tend mort to the happiness and wellbeing of tha human rater. In this class we would rank thuse whose whole souln are engaged and whose lives and fortunes hase been spent in the cause of Education. Happy is the land which can buast a long array of such worthies. How does New England rejoice in the strivinge, the sacrifices, and the achievements of her noble band of educatiunal he-
roes ! Conspicuous amone these, stands larnard, a noble son of Comecticut. His very portrait, which lies before us, indicates perseverance, magnanimity, and goodness.

Henry Burnatd was born in tho year 1811, and aftor rereiving his eyrly education at the district achool, where ho became experimentally acquainted with the defects of the common sehool system, he attented Yale College, at which he gradunted in 1830. On leaving college he commenced the study of haw, and whs admitted as attorney and counsel. or, in his native state, in 1835. Before commencing the practice of his profession, he visited Europe, whre he availed himself of every mans to acquire useful informa. tion. He returned with enharged views in relation to the duties of the American citizen. He saw that the prosperity of his conntry with its demucratic institutions, tras inseparably connected with the sound educntion of he people at large. As he loved his country, he felt that he must not live for himself alone, and his moto, as expressed in his own words was, " Every mall must at once make himself as good and as useful as he can, and help at the same time to make every one about him, and all whon he can reach, better and bappier." It was such ligh toned principles $r$. these, which led him, after years of diligent preparation, to lay aside a profession, from which, with his tatent and learning, he could reasonably expect to gain distinction and wealth, and enl'st his energies in the cause of common schools.

Affre holling in acat in the Jagialativa llalla of Connectirul for thren yeara, where he becinme inatrumental in the
 he minmilanmel hia prosmacion ninl banialome from his mind the prompringe of politionl ambition, sml wemt forth to ls. linf, with all his mighe, in lin firlif of giolucation, as tiecrotary in ilin heard. He limh this a tifer duriug four gears

 riaitire achools. cuquiring intu their condition, nonl augegesting improsemenis, drlivering lrebireas holding Tenchers: Inatitutea. de., hee aprot e ilt oflia privare funcha, for the pro monion of themennen of Eilucntion in Conuecticut, a sum lienrly equal in his anlary.

Diritherthe liflurmitional linarl nor liurnard posacsald anj: prower in clunge the iducutionnillaw or ayatem in prac.
 the exiating rondition of the common echuale, to disactainate
 of eduentionnl riliorn. nuil to enlighten it with rispues to what the character of the ruform shemill the. 'I'In' mecorssity for the enialibiatiment of a Niormal sicloonl for the ernining of tuachera was distincely percrived, yet it was considered prematule to ratabiliali much an iliatiturion before it could commimil fopulur e! ilipnelly and lavor.

The repult of Mr liarnard'a inveatigntions, ahowed a long liat of nvils. Tenchers were poorly qualifind for their dutien, and ritl nome inndequitely remumarnted: children were
 furniture incommodiona nend out of repair: there was total lack of unstarmisy in erhoril books; schools were offen dis. rontinued in the winter eesson for want of furl : $n$ deplorable apathy wish reapect to the whole question of edoceation, previniled in ther public mind, and it was the gencrul impresaion that un improvementa were necessury.

It would owcupy more apace than we can devole, to enis. marnte all the varied inguiries of the lighest moment. in re. Intion to the intermal arid external cundition of educntion. which nere insmuted by Mr Burnnrd. The following are the general hends upon which interrogatione Fere made :-
"N:ame, Irrritarial comblition, populntinn, nul pecuniary
 ral quereiuns, site, perhool hesude, appuratus and library: The.
 cation, consar of insiruction in the pligsical. intellectual, mornt, a:-lherian, nad imenstrial depmetmente: Studies and trat.hooks: Mell.ont: : Spelling: Kruding; Conposition; Grammar: Aribhemelic: Denmanship: Geography; llistory: Jrawint : Muste: (Buvernment; Exammantion: Parantal and public interest: (Hher menns of popular education."

From thene sarious allijects we select one, that of Government, und eulijuin the particular questions, menat of which, every benchor in every land may, with advantage, propooer to hithself:-
" 1. Do you enter on your duties in the sehool-ronm in the right gisrst, ingoud heasht, and with the right prepara. tion for the work:
$\because$ 2. Lo you am to mink your children love you, by exlubunge 11 atronge ximbuilay in their pursuits, ard a fondness for thrir comphay?
 oriber. ill jovir onll dusine?
"4 Dis yau preflan juner nonk will. animuion, Exercise constant patancor, and ntiver lose jour temper?
"5. In you exhibit firmnesa, impartiality, Kindncas, and pareninl regnril. iowneld your aringlara?
"6. Do joll ace that your pupiltane all properly neatril. and every way plysicnlly comfortable, as to ligit, air, and temperalitre?
"7. Ho jou zec liat all your chiliren, at all timet, have something to do, ant a motive for doing it?
"8. Do you make order, quietneat, and obudience, the habil of your aclumel ?
49. Do you aim to enliat the nffiction and activity of the older pupils in duing good in Joll nad tho scliool?
-10. Do you gire rewards, die., ?

* 11. What punishmente are intlicted." dec. ?
"12. If corporal punishment in inficted, what is the instrument watd, dio ?
" 13. Are you carcfui to aroid a apirit of fault-finding. dic.?
-14. Are you carrfill to alminiater rubuto mora in sor. row than in unger, sic.?
- 15. Do youlty to aterse lia co-operntion of parents in the government of the sehonl?
"1C. IInve gou had casea of thoronghly incorrigiblo pupils? If ao, whint did you do with ibetn?
- 17. Do jou find that emulation, or the denire of anrpasaing. can be einplageil as a motire to staty. and food biline. our, without alirring up jealousy, colvy. de. ?
- 18. Are your rewurda hestowed mminly for evidence of intellectual capmeity, or for labiuml industry, icc.?
"19. Are your punishmenta unmixid with exhibitions of peramal frelinga, an anger, seorn, der.s?
*. 20. 1) yed yay propere regard to the playsical condition of the culprit, puchi ns a disorilered nerrous system, natural ipritability und reatfessmess of temprament, or debility of honds. in ulminiatering puniahnornt?
" 21. Ilare jou obacred that phnishment is rffectuna in proportion to its certsinty more than to ita soverity? and more from the inmanaer tlian the fiequeu:y ?"

Onc would suppose that if greatness of soul, nelfosacrifice fir the public good, purity of motires, and acts of usefulness could :aise a nan sbove the storma of party, the evil surmisinge and cavils of thm narrow-miniled and projudiced. nud securt hion from the animosities and rancor of enemies, Barnaril would have been hailed by nll as a public benefac. tor. I3ut it was fur otherwiac. The State Legislature an. nililated, in 1842 , the oflice which he liedd, as one which en tailed henvy expranes on the stater nand yichled no proportionate beneficial resules. We cannot contemplate this inter. ruption of hir lubors of love, but with wonder and reproba tion. Fet the frelings displayed by the politicians of Con. necticut are by no manans anomatous. Whilat professing to he the conservators and the promoters of the public good, with high trusts reposed in them and weighty reaponsibili. fies resting upon thero. we too freq̧uenty find unserupulous atatesmen mill driveling politicians itnpugning motives too pure to find a respunse in their own breasts, and striving to bring into reproscls or risthlesaly to overturn institutions, and set aside men, whose sole nim and iniluence is the public good and whose highest crime in their unflinching adlerence to the promotion of their oliject. Not to pander to the lust for jowirr which reigns predominant in the breasts of such characters, is sumbeient crime to draw forth a aentence of proseription from their tribunal, wilich no amount of inherent excallence and instrumentality in the public good, can arert or mitigate.

The motto of politicians is alas. tno often. "Myself, Myself!" O that it were ulways, "My Country !" What a bripht ciny if all were like the patrivic adiniral who, though a zealous republican, pursued and fought the enemies of Euglame in the dass of the desporic Yrotector, " 1 fight not for Cromwell," suid lie. "Uut for my country."
( T'o be Continued.)

## II.-PRACTICE OF EDUCATION.

## WRITING.

Tus following extmet on the teaching of l'enmanshop is from a Treatize " on School Manngement" recently published by the Ilead Master of the Glasgow Normal School. it cmbraces, in our apprehension, all that is valuabio nad useful in Mulhauser's Sgstem, ns well as in other modern improvemente. We condially recommend its perusal, nud, in as far as it is practicable. its ndoption by the Teachers of the Provillec. This, we fear, is a matter too little nttended to by many.
mithod.
Threo things go to constitule good writing:-the form of the letten,-their inclination,-nud the distances between them. If any of these things is overlookeel, the writing, to that extent, will be defective. Now in oriler to the nequisition of these threo hinge, it is obviously necessary that some methokl, based on natural principles, be adopted. The mero blind imitation of examples may; in the case of a boy who has n stendy hand and ngood eyc, lead him to write well; hut the gennl writing, in such a cense, will be tho result of arcident, mall the neyuisition of it will only serve to desclop the boy's power of imitation, without calling into exerciso any of the higher faculties of his mind. But with many, who do not possess the ficulity of imiation in any stroug degrec. and who sec in writing only in many ummenning lines, the hour set npart io writing is dull and monotonous, nud heir great desire is to have the preseribel page filled up as apeedily ne powsiblo. Nor can it well be otherwise when wo remember lhat work, which doce not exercine the understanding, possesses not charms for the young. leachers at the outset of their carcer are "pt to forget this; and hence, tio offen, they consider it quite suthient to occupy their pupil, withont observing whether or not the occupation is fitted to lend them to rellect on what they are doing. This holds true very apecially of writing. The pupils are arranged at the deaks, their writing looks are given out, a pattern is set before them, und they are lef to imitate it as best they may. The consequence is that the writing rapidly degenerates as it nears the bottom of the page ; for the echolars, when they have written one line, set themselves to inutate their own writing, instem of the copy which has been set before them. Not only is this the conse; but it almost always happens that the pupils have no alequate iden of what is required of them. Why a certnin letter rises nbove the line a certain distance and no mure, why one oceupies more apace than another, are matters with which they never trouble themselvea; or shonth a boy whose mind desiderates rensons for what he does, make any enquiry into the principles which ought to guide him, ho is rudely interrupted and sold to imitate what is set lefore lim. But writing is no mystic art which refines to give up its secrets to the anxious enquirer; it follows laws well detinad and easily comprehended by the meanest capacity ; it appeals not only to the eye and the hand, but to the understanding and the memory, and only when these are taken into the account can we expeet writing to assume in our schools the pince which is due to it, and to receive that amount of attention without which there cannot be, except in accidental cases, good rriting. To any one who examines with any degree of attention the written characters of our language, it will be evident that these characters can be analysed into a rery few simple elements, and that all our letters are made up of simple modifications of these elements.Such being the case, it would seem to be the natural method of teaching to write, to commence with analysis. The complex written characters should be analysed into their elementary parts ; these elements should be arranged in the order of their complexity, and thus presented to the child, who, in reconstructing them, learns to write. The self-same principles which we endearoured to establish when treating of reading, should, mutatis mutandis, be applied to writing. The simple should always precede the complex, and the knowledge mhich
the child posseseses should the mado the stepping stone in further nutainmente. The known slould always go before the unknown; what the chith knows, either by natural or mental rision, should be linid hodd of as the hand to guide him to what lis does not know.
asmirsis of otr trimten chailacting.
Such being the untuml methenl by which our knowledge is nttainer, it is obviously the tencher's first duty to make himsell thoroughly aerpminted mith tho elements which go to roribose tho written charncters of our langunge, and with their classifiention in the order of their complexity. For tho following obacrsations on this subject, we aro mainly imbebted to the "Manual of Writing" by Mullaneer, who was tho first to give a complete nalysis of tho written chameters. Wo can only make one or two orief remarks, and must refer tho reader for a fuller discussion of the anbject to the manual itself, merely reminding him thas, white ho will ment with mnny things mottiny of his attention, he will also find mueh which is both useless nul impracticable. 'The hand in writing has four principal motions:-

1. The downward motion /
2. The upward motion I
3. Tho motion from right to left (
4. The inotion from left to right )

From these four motions there result two sorts of lines,

1. The right line / /
2. Thu curved line ( )

These two sorts of lines supply us with the four elements of letters; viz:-

1. The right line /
2. The curve line (
3. The lewp ; $h$
4. The crotchet

With one or two alight modifications, we an resolve all tho written charncters in our language into theae four clements. For the purpose of joining right lines to one another, we hava recourse to what are termed the hook and the link. both of which are seen in the written chancter $m$, the hook at the begimning, and the link at the end of the letter.
classification of odib whittin chahagrems.
Inting thus amalysed the chnracters used in writing, the next step is their arrangement in the oder of their complexity, and we have

1. The letters formed of the right line and the link, viz:-

## $i, u, l, l$.

2. The letters formed of the right line, the hools and the link, viz:- $h, m, h, f u$.
3. The letters formed of the curre, viz:-0, $0,0$.
4. The letters formed of the curve and of tho right line, viz: $-a, d, g$.
5. Tho letters formed of the loop, riz: $-\boldsymbol{j}, \boldsymbol{g}, \boldsymbol{y}$.
C. The crotchet letturs, viz:- $C_{1}$, $f, u$, $u$.
6. The complex leters, viz:-/b, o, $x, x$.

## the heioht of the iefters.

Not only must the teacher be thus able to analyse the letters into their elements, he must also know their relative heights. All the letters are not of the same height, and in order to make this ciear, we shall give a more pariicular analysis of each letter, in the order in which they are placel in the last paragraph. For the sake of explicitness, let us call tho space between three horizontal lines $=a$ haight. According as a letter passes nbove or below these three parallels, it is ono height and a half, two lieights, two heights and a half or three heights. To indicate that the line passes below these three parallels, we may use the word down. The afsolnte height of the letters will depend upon the size of the hand

Which the pupit is required to write: we wee the repreasion fur the jurperan of fixing their relntive beighte. With these explonaturna, suid requeating the renier to role n jonge of pre per and write the lettere na ho pirncecta, we present the loblorring nulalyais:-
The limok evinmenerea at the linif height.
'The link icrommates at the hald height.
a is comprect of $n$ right line and link.
*) of ripht lise, link: riglıt line, link.
$f$ of right line, height nuil n lmof: link, bar.
$P$ right line tra heighte, link.
on lionk, riglit line; lookk, right line, link.
ons hook, rikht line ; hook, right line; hook, ripht line, link.
h right lime, ino heighta; hook, right lince link.
\& ripht line, fwo lirights nal a lolf, one licight doten; lumok. right line, link.

- curver (ifue slot nt tho mommencement beginning at one fourih the heipht.) link.
- loop. (n very narrow owal, united to the curve $n$ litile above the lall beighi.) rurve, link.
ther chive Moments of hia lother ame tirn curtes, the one from righa io inf, the other from len 10 right, the second curve being $n$ fine line.
doulbe curve, right line, link. I'he right line is united to the curve nt one fourth of the height, and leaves it on jasaing the laif hevight.
d doubln curve. right lime, two lirights, link.
double curter right line, Itro licights doten ; lhis Irtter is maited fos she onte which folhora it ing a stroke like the link, prowereding from the half height.
right line two lieights doten, lomp, half link. The loop enda in ascemling at one lacight anil a quartor duren.
7 domble curve, sight line iwo heighes duen, loojo. liate lisk. lunk, right line, link ; right line two heights durn, long. $y$ inulf link.

人 right line two heights, link, crotchet.
loopione heighe above, right line three licights, one licight down, crotchirt.

- hook, right line, crotelet.
(1) hook, tight line, link, crotchet.

No right line, link, right line, link, emoteluet.
The analysis of the complex letters cannot be made very clear withont moxlels. Ia the render cexnmine earefully any gexal mokled nad he will at ence see how they may be analysed, From the forrgoing anmlysis it will be esidem that all the letten mantan a curamin relative height in regnal to earh other, and that, unles. dhi- relation in the luight of the letters be proonved, the writing cannot he gooxl. It is only when all the letiers are of the exaet height, that the writing will prevent dint mametry of form which is so cosemtial in good writine. It will also be evident that children can, without any grent ditioulty, be made to know the relative heights of the letters, and thas at once correct their own mistakes in that respect.

## TIH: inct.ination anj distances of the lihtters.

13ut the letters must net ouly be of the proper height, they - must also be prouerly inclined, and placed at proper distances frou rach other. the inclination for all the letters is the same ; but, while this is the cuse, we are not aware that there
is noe miform stantarl of inclinalion. Thise may inpmel murh on the inate of the mater; the proint to be aperinlly ale temedel in lwing that. when the first letter has noreisen! given inclination. all the others mat he regulated by il. Iterce an eany rule ran be haid domn wherehy chililren mny for themecleres chetert to what extent lhey hare nilhered to the preacribed form. Wie shall have orenainn immelintely to proint out sotuc of the nirla thich may be cmployent in asaisting ehildren to acquire ihe various case minls of gooul writing. In nhlition, however, to a proper inclinntion of the lefers, good writing riguires that thry lee pineme al jenper disinnera from rarli ntice, ninl that rach letter ocenuly a space exactly pro pmotioned in ita airc. withonit shich ita correst fonn cannot bo giren. Jet us eall the distanen lectween imo right lines a apmee, noll let this distance the copuat in half the height; then " Ietters formed of the right linn nmil link shonld exenury one spore. Between leliers formed by a link nuld a hook thooe is one spare and a half. Wetrecen letiers compoed of curses three is only $n$ half apace. The letters $c$ nat $e$ inke up cach n spuce and a half; but wlien tho link of cither of theso Irifers is united to a letier cotmmencing with a brok, there are enon sparea between the curse of the c or e and the right line of the ancceeding lelier, The letter 0 is sepumed bs a trhole iperre, whether it goes lufore or followrs n right linc. Tho luyp formen very murnow oval. Ifs willh is three fourthe of a space. In regaril to the croichet hitiers, thare is a apure and athalf hetwern the leg or right line of the letier r. amis the lether which follows it. When $b, v$, nnel se, are united io curve lellera there is only one halfapace herween them; but, when united to right lines, they are separated by one whole zprace.:

## whitisn Desk

IInving thas nnalysed sum clnasifed the letters in the onler of their complexity. and linving indicnted, in very geneml trema, their height, inclinution, find diasnnce, we hre now in n pusition io tench chiliren to menmhino them, and hy lhis very exercise, ns we hare alrendy remarked, they lrarn the art of writing. But in ortur to their writing, varinus other things nre anecsanry, and theso we ahall now briefly consider. Athl first ill orier is the arrangement of the classes. As puinted out in the chapter on organizntion. it is exccedingly alrsimble on havo the writing desks arrnuged along the lenghth of the school, riaing slightly tho one niove the other, and so constructed that stl the pupils free in one direction. The ndinntage of this is that tho innster can give a geueral leason on the hlack bosird to the riohe rlass at once, can make the correction of one individual's fante the menns of calling the uttentinn of all to the catuse of the fualt, and may thas savo much precions time and inuch unncecsantr trouble. Slong the top of the desk there shond! run a marinar ledge for lolding the ink-botiles, which ought, in all cases, to be fixch, so as to prevent the poseibility of the ink leeing spilled. The lenf of the desk whould linvor very slight inclination, nnd to prevent the writing. book from slipping off. a beading of wood should run nlong its lower extremity. This bending should be 50 thin as not to incommole the arm when reating it. It would also be desirnble to lave each pupil's place at the desk marked off by $n$ stripe of paint ; this would prevent confusion, as no boy could havo any cercuse for tresprasing on his neighbour's ground. The height of the desks will, of courso, depend upron the size of ilue scholars; but it is of great importance to liave therm neither too high nor too low; for, unless the chitdren feed quite comfortable when seated, they cannot write well.For the same reason, there should be a foot-lonrd, on which the feet of the scholars may rest when writing, to prevent them from swinging back waris and forwards; for "the position of the feet determines that of the body, and this latter determines the character of the writing, its inclination, and its regularity; the pupils req̧uire, thercfore, a resting place nt a convenient height To nove the feet is so natural, and yet so injurious to good writing, that congiderable vigilance will be required to prevent this motion."

- Mulbaneris "Manual of Vittiag"
(To be Cuntinued.)


## SCHOOI, GOVERNMEAT-INCENTIVES TO STE-I)Y-EMUHANION.

Is the outline alrealls giren of this sulject, we showed that, in our nuprehension, it takes a much wider range than is generally aseignel to it, embracing not merely all matters appertaining to obedience and gmal onder, liut to diligenee and perseverance in stuly. Inderd, we hinld that these two requisites of sehool management aro inseparabic, nad that in very proportion to the intercet infused inte the mints of the schulars in reference to their lessons, will tho wholo matter of gool govermment be freilitated nod pmonoted.

We now proceed to discuag the whole aubject in detnit, commencing wilh the varions inecutives to stuly, what conatitutes the proper nud what the improper motives to diligent njphlication. And now a question arises at tho very oufset, Is it right or tiroper to ply the princigle of emmfation, in the prosecution of study? listeal of anawering this question in our own wonk, we present to our readers the statement of Page on this point, with which wo mast thoroughly sjmpn-thize:-
The tencher will find in a grenter or lese degree, itn the mind of every cbild, the principle of Emelation. It ia $n$ guestion very much debated of hate, Rhue shull ho do mith it? Mach hins been said and written on this questinn, and the ableat minda, both of pnat ages and the preasent, have given us their conclusions respecting it; and it offen increnses tho perplexity of the young teacher to find the widest differcnce of opinion on this sulject among men uron whom in other things ho would confidingly rely for guilnnec. Why, nsks he, why is this? Is there no such thing ns Iruth in this matter? or have heas men misunderstoxd ench other? When they have writen with so much ability and so much carnest-ness,-some zealously recommending embulation as a sate and desirable principle to be encournged in the young, nad others as warmly denoameing it ne allogether unworthy nud impm. per,-have they been thinking of the same thing? Thus preplexed with conllicting opinions, he is thrown back upon his own reflection for a decision; or elant is more common, hin endeavors to find the truth by experimenting upon lise fill pils. He tries one course for one tern, unil a different one the next; repeats both during the thind, nad still tinds homself unserthed no ho commences the fourth. Meantime some of hin experiments have wrought out a lasting injary upon the minds of his pupils; for, if every teacher must settle every doubt by new experiments upon his claseses, the progrens that is made in the science and art of teaching mast be at the antold expense of erch new set of children ; - jast as if the young doctor could take nothing as setted by the experience of his predecessors, but must try over again for himself the effect of all the sarious medical agenta, in order to decide whether arsenic does corrode the stomach and prosluce death, -whether cantharides can be best applied inwardly or outwardly, -whetier mercury is moat salutary when administered in ounces or grains, or whether repletion or nbstinence is preferable in a fever! When such is the course of a joung practitioner in a community, who does not confidently expect the churchyard soon to become the most fopulous district, and the sexton to be the most thrifty perionage in the village, unless indeed he too should become the subject of experiment? Hat is there not a grod sease and a bad sense, ansociated with the term Emulation :-and have not these eager disputants fallen into the same error, in this matter, that the two knights committed, when they immoluted each other in a contest about the question whether a shield was gold or silver, when each had seen bitt one side of it? I incline to the opinion that this is the case,-and that those who wax so warm in this contest, would do well to give us at the outset a careful definition of the term Emulatios, as they intend to use it. This would perhaps save themselves n great deal of toil, and their readers a great deal of perplexity.

Now it seeme to the the truth on this question lies rillinn $n$ nutshell. 1. If cmulation meana a tlesire for improvement,
 condition or attaiumensa,-or eren an aspiration to ntumin to emineme in the selimel or in the werld, it is a Inviatile mo. tive. This is selfemulation. It presaes the indivilual on to surpase himentf. It mompares hisa preect combition with what he would be-with what he ought to be; nont "forgele ting thoee things which ner behitel, and rearling forth unto those thinge wlich are hefore. hor preases owanda the mark for the prize." "An ardor kinilled by tho pmiserrorthy examples of ullers, inciting to imitate them, or to equat, or even excel them, without the desire of depressing them,"e in tho sruso in which the aposile uses the term [Romman xi. 14] when he kay:: "If by ony menns I may pmeoke to emula. tion them tohich are miy flesh. and mighe sulve some of them." If his be the meaning of emulation, it is ceery way $n$ wartigy
 lo n greater or less extent in the mind of avery chill, nowl miny very safely be strengelvened by being calleal br the teacher into lively exercise; provided niwnya, that the eminemere is goughis from a desire to be uscful, nud not from $n$ desire of selfghorification.
2. But if emulation. on tho other finnd, meana a desire of surpassing ollers, for thas anke of surpursing them; if is he a dispocition that will cruacenn indivislun! to bo na well antia. fied with the highest placer, whether he lina risen almove his fellows hy his intrinsic well-doing, or they hava fallen inelure him by their neglect: if it puts him in such a rulation to others thitt their fuitures will be na gralifying to him as his oten success: if it be a principle that prompts tho secret wish in the child that others may mise their lesenom, in orter to give him an opportunity t, guin applatse by a comitras wilh their ubasement,- then, wifhout doubt it is an unworthy and unloly principle, and should never be encoumuged or nppealed to by tho tencher. It has no sinilitentes to that apirit which prompta a nan to "love his neighlior as himsell:" It liana none of that gencrosity which rejoicos in the nuceess of othern. Carried out in after life, it hecomes ambition, such as fired the breation a Napoleon, who anoghe a throme for himself, shnugh he waded through the blood of millions to obtuin it.

It is to thin principle that the npostle, bufore quoted, nlhuden, when hu clasese emulation with tho "works of the neah," which are these : "ndultery, fornication, uncleannowe, haseiviounnese, idolatry, witcheraf, hatred, varinnce, Fitulation, wrath, alrife, selitions, sec.,-of the which thinga, I tell you before, an I have culd you in timen past, that they which do such things stall not inlierit the kingdem of God." It is of this principle that then commentator. Scott, remarka: "Thin thirst for luman applause lins enused more horriblo violations of the law of love, and done more to denolate the earth, than even the grossent aunsumlity epur did."

Thus Emulation is a term which indicates a very gomid or very bud thing, necording to the definition we give it. In one view of it. the warmest anpirings to ride are consintent with ageneroun wish shat others may sise also. It in aven
 progress of others, though they thould outarip hom in hign upward course. It is the eppirit which netantes all true Christians, as they wemd heir. Way heavenward, rejoicing the more as they find the way is ilironged with those who hope to gain an imnortal crown.

In the other view of it, we see men netunted by relfish ness mingled yith pride, inumiring, in the spirit of those mentionrd in scripture," Who amones us shall be the grantest?" We everywhere set men violating these ancred injunctions of divine widdom: "Let no mati seek his own. but every man another's weallis." " Let norhing be donis through strife or vain glory; but in lowliness of mind, let each estecta other better than themselves,"-"In honor preferring one another."

If such be the true pietures of emulation, in both the good

- Dr. Frebster.
and the bad senae, cortainly teachers cannot henitato a momont as to their ding. They may nppreal to tho principle first described,-cultivate and sitrngthen it : and in so doing. they may be sure thay are soing a good work. But unlean they intend to rinlate tho tearhinge of comonon aenae, and tho higher tesching: of Clariatianity, 1 knuw not hans they ean appeal to the principle of emulution at defined in the second case.

But it may bo urued that tha teacher will And emulation, oren in thas latier secase, oxisting in human natura; that ho cannot ant rild of it if he will: thas it will ho ung of the most active principles to which he can resors in arousing the mind to exertion; and, furthermore, that it has been sppented to by many of tho mast eminent teachera timo uut of mind.
To this it in replied, that it ia not diaputed that chilitron aro selfish; and that chis solfishnese mily indeod bo mado a powerful instrumentality in urging thoun forward to tho atainment of a temporary enil. Hut does tho exintenco of arlfahneas prove that it needs cultivation in tho human claaracter? And will tho ond, when nllainel. juntify tho meana? Is the end, whatover it may be, if atsaitoen at aneh a cont, a blansing to bon desired? Will not the henat auffer moro than tho lient will gain?

It may bo furthor urged, that tho chilld rill And tho morld full of this principlo when he loaras the achool; nud why. it is nsked, aliould he at achool be thrown into an unnatural position? I anawer shat oril is not to bo ovetcomo hy mak. ing oril more provalent,-nnd though thera may be too much of self.sceking in the world, thas is the very resuon why the teacher nhoulh not oncourage its growth. The mozo true Clarintinnity prevails in the worlu, the less there will be of that spirit which rojoicces al another'n linting: hencolam convinerd the teacher should do nothing to make that apirit more pruralont.

Nor is it easential to the progrese of the pupil even temporarily, since thare aro osher and worthier principlen which can bo as auccuasfully called into action. If wo look carcfully at tho expediency of thas stimulnting the mind, wo find that after tho first trial of atrength, many beconso dislieartened and fall bohind in dnopair. It will soon be obrious, in a clasa of twenty, who aro the few that will bo likely to surpass nll othera; nad therefure all tho others, as a matter of courso, fall back into onvy, perhaps into bopeless indiffereace. Who hase not soen this in a clases in spelling, for inatance, where the atrifo was for the "heud" of the clasn, but where all but two or threo were quite as well antistied with beiag at the "foot f" It does not then accomplish the purpose for which it is omployed; and since thoso who are arouned by it, are ceven more injured than those who aro in different, their undesirable qualities being thue atrengthened, the opinion is eutortained that those teachere are the most wise, who bend thoir ingenuity to find some other means to awaken tho minds of the childron under their ciarge.

From what has been anid, then, Emulution is to be recognined or sepuliated among the incentives of the schoolroom, according to the signifiention we nssign to the term.

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III...OFFICIAL NOTICES.

CLOSE OF SUMLMER TELKI OF NORMAL SCHOOL

Take close of another Term of this Institution took place on the last week of September. The session thus terminaled is the serenth since the commencement of the Institution, and, ree believe, that, on no former occasion, did the Pupil-Tenolsers, as a whole, evince tho same amount of scholarship and professional qualifeation. This, we think, ought to bo a
source of antisfaction and gentificntion to every friend of eduention throughout the l'rorince, holding onl, ns it dees, the encoumging proepect of a ligher atyle of education in our Common Sishools. I'cringia one canse of this marked gencmil inpumvement is the faet that a grealer number than before of tho atmetents in atiendance hand licen educated, at least to $n$ certain exient, by (irnduates of the Normal Srhool. This is a clicering considerntion, and will, erery auccecaling Torm, tre more beneficinlly feli, alike by tho Normal School, and the genemi sigin of eduention thmughout the counery.
The concluding ecrricen of this Term were tho anme ns usuat, nul na described in tho fourth number of tho .Journal of Befucation. Tho attendance of visitors was as large ns heretofore, erery arailable inch of ronm leing oceupied.Among the other gentiomen present, wo observed tho Rev.
 Dnvie, Mears. Alnma G. Archibald nid S. Creclinnn, Commianinners of Normal School-Andret Mackininy, Est!. Inalifax, who kindly offerod n sclumanship of $\operatorname{En}$ to the pllident of next Term, prosesesed, ia the eatimntion of the Principal, of the highest merit. Aller the l'rincipal had rend tho list of tho Graduntee of thin T'erm, nal delivered his viledictory millrese, several gentiemen spoke in complimentary terms of all they hat witnesed during the whole of these services. Therunter, Mr Simeon Sykes, of linmouth, in mamo of his fellow-studenta, came forwand and presented an Alkiress to the Principal and the other Tenchera of the Institution, ex. pressive of their grntitude for all the kind interest manifested in their welfare during the whole session now at a close, and of their determinntion to enrry out, in their mpective spheres, thoso important educational principles in which they land been instructed, and which, in tho Medel-sclioole, they had scen ex-emplifed,-To this address Dr Forrester mado a suitable reply. Theso arrvices being over, and tho l'rincipal having intimated that the next session of the Normal School would commence on the sceond Wednesdny of Norember next, dis. misued the assembly by praiso and pronouncing tho benediction.
The following is a list of the Pupil-Teachers who grined Diplomas ut the end of the Summer Term of 1859:-

## GHAMYA:L BCTOOL DITIOMA.

Mr. Nicholas Smilh,
Samuel Raymond, . . Qucen's County,
Sarmouth.

FIfst CLAKS DIPR.OMA.
Lendife.


Mr. A. IIllex, i - . Lunenburg,


## sf.cont criass mithora. Jadies.



The following Indics and Gentlemen wero noticed as have ing mado excellent progrees, but, in mnsequence of their deAciencien in arholarship when they entered, as linving not yet reacled the requisito altainments to entite them to a Second Clase Diploma, viz. :-


Trachens' Insfitutra.-The Superintendent of Educntion will hold Teachers' Inatituten at the following placers and dates:-At Ifalifux on Snmerlay, the Belh October, for the Teachers within the kmunds of the Boarnl of the City of Mnlifax and of Wiatern Inalifix; at Kentville on Saturdny, the 13́th do. ; at Windoor on Saturday, the 22nd do. ; at Amhernt on Saturiay, the 23th; and at Parrabom' on Saturday, the Sth Novemher. It is enrnestly solicited that all the 'Teachers within the bounds of these Boarda attend theae meetings,The Clorks of the different llaards will givo due intimation of the hour and place of mecting.

## stateafnt hespecting tuf provinclal NORMAL SCHOOL.

Notwithatanding all the rfforte we have nade to diffuse informa. tion regarding the pruccellinga nnd wortings of ibia lnatitution it apprars from the notro of enguiry wo aro alrunat every werk recenvine, that no emall mount of ignorance atill pravails. On this arcount we tave felt it to be our dusy to draw uut a sort of pro gramme of its more prominent fealures and oprrationg. which we purpose inserting in eeveral numbers of thin Juurnal. in the hope that we shall thoreby avo ouraelves touch titne and labour in cor responderic.

## OMECT CF KONMAL, ECHOOL

The otiore of this lnestution is ty ipralify thana whe intend to darme thrip lima anil menegies to the minmation of the sonng fore a
 ways, firm, hy mara auenfate anl-ximnare allinment in all the
 by an arepaintance tinth thenretical and perartical with that oyatoin of elucation generaliy drsiznatol the Siatural op Training Spo sem.

## RHYMKK AMD FIKTRK TRRME.

Thein are two Trrius in the year, llin Summerand Wintep, the former conmenting on the Sirmond Whelfnewlar of Miar and figioh. ing on the layt Thurmlay of Sepiemiter, the latier renimencing on the seciond Worlnuglar of Sovember and finiahing on the lan Thupmay of I sinh. In Simmer the $\mathbf{S}$ hmimentoal 8 niplock.
 A. M. and rinernat 4 ociclork I' M., with all ho if'a interval. Nina are admiltell bater than a orenk aner then crman nemant of an.b Tierin. Licienepil Traihers inay atleminanpela'nere, but thuy rane not gralluate unime they uncol as prgular pupila, and altonil the whole Terar.
athmiagios of refil tractirna
 tha Normal sthmol. at the rommentrment of any of ita Treme, ana



 admitted. Ther I'rimpal miar aldur ien pupile, dot ininniting to

 almen pixtern yeara or ase, and wilio are ulite to ntanila eatiafarinty
 the choments of Cironerapihy anil ar Eonglish Cirammar.

All requilar Pupil Trachers, when cinmileci, ilmelare it en ha thoir
 the l'rovince for threo yraia at Iraat.
cost uf attevinaser at morabal achoof.,
Inefenction and tho use of Tust Buaks arn freen to all Pupil Teachern.
 ling expromen of the l'upul reachmes thay roonamond, tu and from the Norinal S.hool, at the rate of 31 . prer mile.
Tho Pupil.Trachers haven nothinge to pay anve Braril and I, wlging. whulthes uay oltain in and arount the village of Truro from 8s. In 15s. per weuk. The whole actual cuet of Term will thus bu about $£ 10$.

TRACHKRE OF KOHABAI, ACHOOL
Principal and Ioccturnt on Protrosinnal Department and Patheal Scipnee. Ruv. A Furmaler. D. D.; Finglish and Clacal al Depart-
 W. R. Minlholland, Eıiq ; 'Tbeory anll Practice of Music, Prufemer Williams.

## COGRAK OF stuny pernced.

Enplish and Claraicul Departonent.-All tha Branches of an Pan. alith liducation commencing with the vary olementa and procech-
 Grammar. Complesition. Grographr ill ail ita uratubhes. Ilintury, Ap-tronemy-Clamica, from (ira-nimar up in ihn highinot Ciappizal da. thore, neconline to tho nature of the Diploms for which the Pupil Trurifera incent in vompretm. Frenels in also tausht. Broika ured


 French Cirummar.

Alathemntical Departmest. Drawing and Penmanahip- Biental
 J.ectures on Sintural P'liilonopily. Buoks unal-diational Sinfipe, 'Thnmeon's Arithmplie. Eischd'n 'rivomotry, Chambera' AlgebraMSS. Leaciorea ly Matier.
l'rojessimual Deparmment - Conran of Leccures on Teaching at a Calling or Profescion, enbraring thin Whot, the lliw. the Whanand
 and the whole aupport of thin branch of the public service.

Uniler the $\$$-jence of Education, aftre preonnting an outline of the whale, the Physiral. Litemectual and Aloral Elur-ation of the young is discuaspll in all its esprets anil liearinga, 11 consection with arpular Courar ai liecelures on Animal Playaiology, on Intellurtanal and Moral l'hilumpity.
The How umbrairs everribing appertaining to the Practice of Falucation;-aurh an Schisol Premiares, School (Irannisation, Schoul
 taught in Common and more alvanced Schools - Syateun adopted,
ilo distinctire featureasnd ito application to the varoun branches taught.
Puler the Who enmeg evertithing imbonging to the Jising $A$. gront, the Schonlmacter:-aprhae then UTwe of Trachier-line Guali.
 and this lle wania.

Under the ilherewithal falie to be conatilereml whatevar belonga to the Fixiemal Syatem:-avili an the l'ariy on wheli derolece tion reeponilitity of the branth of tha l'ublic servin--The mole of raining the Aisequate Support--Fiatrfual Syateme of Nintional faljacaion, with an examinalion of the pystem putzoed in thise I'rovince.

From the conimelion subating belween one nmminent fralura of ise Traiaing Syatrmand Disural termon, Dr Fintrester alacile. lirent an Oulline Cnumes of lecifurva on Chemietey, Alineralogy, flotany, Fablegr and Cimonerg, all which aro applied to the peceliti. fie cultivation of the soil.

Mfuse.-Instructioll iagiven twirate the werk on the Theory and
 era acquainicil williten ar allozent tures, mo as in enable thatn the
 fem.
 ncturtas.
Siz werke after the comenenerment of a Term, the aturiente of
 tators, anil then ae furactiolonera, wat lenat, for two or threo houra every werk. Fur exampir thers have imerect, in rourme, inatrustion in the way in which Menial Aralimetic alaula be Inught in
 that mole ercaplified; nay more, they requif $10^{\circ}$ practice it tham. salven, ere liey can lacheh il will rificieney. Anl all this thry do. first, in tho lerimary, then in the nume alvancel stage, in lime Intermediale, and more advancel exill. in the iligh School departonent, -and 10 on wath the other brancbes. The other eections of l'upit. Taachora paas through tho eame orileal ihough, in cenarquence of their deficuenctes in mholaralif, thoy cannot alford to gire the samo tiane to the Jional Sxboole.

## MODKL. ACHONI.s.

There acboole are rrocterl withina fow yaris of the Normal Col. frgo amd are intended to furmah the beat excruphification of the Training Sycten, as weilas to afforil a favorablo opportunity for tha J'uphl. I'varlier to l'rartisa the mama.
Thay conamb of lifeo dopartmente. I'rimary, Intermedinte, and Iligh, with Female Industrini; nul nobleraco all the branches of a Coctmon anil liramonar Se:hool educntion, including tho ligher branches of Mabhematics, Greck and Latin, wath Firench and German.

Mh J. 13. Calexin, Ileal Masier.
The fera paid in advanco arr. per guarier, for I'rimary, ©a, 3d.;
 mencement of Quarteriy T'rema is the first of May, dugust, Norember. Feloruvry, and none are afterwarlionimited without pas). ing the full fres. Tlolidays froas the 13 th July to bith of A ogate.
 Acadrony (irectiond Latin Grammars- Ala's French and Ger. man Graduar.

## IV--EDUCATIONAL INTELLIGENCE.

## liNGLAND:-THE ELUCATIONAL GRANT.

On Monday. Jisly 22mi, the houso wont into commitice of app. ply. Mir Masas:r in the chair.
Af lowx, in moving that ilin sum of $£ 836,320$ bo granted for oducatoonal purjowa in Ciruat llritain, aail it was very instructiva and interesting to wasch what had been tho progreanive incrnaso of thita vole. Tho first expenditure man in 1840, and amounted to E10.6t2. In subserfuent ;ears tho expenditure gradually advanc. el, year by car. up to $184 \%$, wheth the parlamentary grant
 to $\mathbf{2 3} 5,000$, in 1851 to $£ 326,006$, in 1855 to $\$ 369,000$ in 1836 to
 had teen a geachas and strady progress which had eatablished itaelf bitherto at alout an annual increase of $£ 100,000$. Il believ. ed be was expected to asy evmething w tho buese upon tho aub-

Ject of njocation, and perhaf it woulld the only reapectfol to them If he affereal moren remarta on mibjecte of practical impotance. (Ilear, hear) Alueh goral hall been lone in promoling erlucation by alicntion bering direvidel in elorational machinery aliewly in exapiener. which had recelieed a nimulus ; beanies which, the grast
 hall bren alitrey upe. The ohyect lial bren in all roluniary eflort. They had len every epet Iref to trach whatover aykem of Chrin-
 termixed with we lifile avil. actin atato of Finglish sociely woulil at-
 bulity as a ayalem; for there wat no hellertant, whether as appilicil to a man, to a irce, or to a a) ecat. Ihan leing able to arow ip in maturity without altering the nature, but expanhing grilually and armmelrually, (llear.) ile thought it masimposaible to dear that the eysiem hand that neril. Tie paw the reaulin of the sgetem in the moet inngible form all oure the country in the nesinler of oiherita It hatl raiarel. and her might farply any thin ayenem had raimed theun. although they reaultel alon in preat jart from privata lienotolence, ton contibuciona for the last gear atanding in ito ratio of three to
 bean in a moal imperfect atato ; but now a gooll atanlani of popuIar evluration liad bren fixed, which woully maintain itmelf hemere tha pubties minut. Another alvantage of the gyetem was, Ibat it had raizel upa large and intelligent beniy of inslructorg, who would prove thosi raluabin co-wnokers in the edicntional cauke. If bad shimbiatel traceres, becaupe it hal giren themian auginenlation of incomen anconding to thrir marita; that bolding nul an inducrinent
 had alma, by tho ducatinn of l'upil. eachehere, ment forth to the world a iypr of itin milucation of the mithllu cila rea. It had almo, by stim. ulating the demand for cood education, rageot tho remuncration of tonchers, and thereby ramocl their status in the community. It hal. brailea, by its conctans inapoction, kept up the afsmidarit once estaliliatich, ninl provided tho mrans of aremp what was going on in rcopert to relucation all over thy country, and mato tho peachera ferl that thry must not rat on therip oara, for that their own pro grepe wis comatantly watched. These wrso the principal benefita Which tha ayatem hidi confurted on tho country, and ho thought they wero of ne ordinary naturo: and whether the ajatem should scuain as a permanent ayatem, or bo troppoll as an experiment, it would hava done much pood. Thu total coel to tho country was monnwlirre ninult $£ 3,700,000$, and he theught that, ufon tho whola the bouse would to of opinion that the monor had mot been ill. epent. (llear, hear) Thicy hatl under instruition somowhero nhout 821,000 chililren ; and for this lhoy paid $\{761.000$; that was derlurting tha $\mathcal{L} 70.000$ whirh repreaented tholoficiencies of form er 3 eara This was somelhing liko $£ 1$ a heal for their education. or rather 13 chiliten ware ellueated for $£ 12$. It way estimated that there ware $3,000,000$ children who ought to be brought under the operation of this public edunation. In orther to educato theso they would rejuiro an army of 200 inspoctora, 1800 echool uasters and mistresars, asd 43,000 I'upil.terchers, bepillen the other appliances of clucation. It wae dilfirbll to axertain what the expunse of all thas would be. 'That it would not inereseo according to tho number of clahlien was clear, berause, niter the largo rxirenso whirb had been menurred in tho buitding of echools, that expenso wonlil rather be on the ilecrease. llut euppoaing thinga to propiresa as of late, the total grant that would be refuirell for vifucational purproses woild bo $£ 2,500,000$. Theso werv all gravo comallora. tions. Ile rejoicel that the nation was aponding so much monos in doing an tpuch gool. In the schools of art tho results were exiremely gratifying. Tho returns of tho central in. ntilution, including achools of navipation, ahowed that 68,212 pupils hal attended it; and in the echool where drawing was tauphe, 29.123, an increame of 85 per cent. Tho art mehosia coat 10s ifil. ench puphl. Ile hopred that. by unity of julgmont and mutual con. crasion, the commitico would arrive at mome solution of the ques. tion, which, while it leftinviolate tho feelings anis opinions of dif. ferint seligionists, should give to tho people of England a diroughIy goond cducation, filting them for therr diffurent atations in lifo, and not involving an unreasonable experise to the revenue.

Mr liatinks had ontertained the deepres senan of the value of education durmg the wholo of his life; nat be rejosed to see the house and the sounty of England brought into astato altogether different trom what ho remembered in lis routh, wen diacusuons took place as to whetber "t was dieurable that education should be unveral. For himself bo hati al ways thousht that it aboulte. But he felt somen alarmat itio rapued proaress of thas erducational catimato Tho hon. gentleman then prowedod to crucises the erlu. cational returne, according to which it would appuar that the children of the poor cid not ruchain at echool more ihan three years; but this, he contended, was a great misteke. Ho know somnthing of the habits of the poor, and was awaro that liuy wero very fres yuently atcuatumed to chango then readence, tho result of which.

Whe，that their children，after remaining at ono acthot for a cer tain periot，removed to another．Thero was no doubt that many duaenting eecte dud net ntject to meerive the grant The Wealer－
 man Catholes were in this caltrgory，bat let it be remembered，on thie other batid，that the chief jortion of the Nonconlermiste，the Interuemilenta，and Baptitis－who poearearil from siotin to 6000 plares of wnrmip hat weren them－the U＇nited I＇resth serian Ehuresh
 furel it．All theme mero elrongly impreewall with the atronlute ne－ cescily of aloppting tha roluntary primepig in mattere of relacation an wril at religion，and believel llant，if the priucipite of thas grant
 arete of rellgioniale－the crilamenert of erme as well ac truth．the mas anxioun to promolo the epremil of riliazation．but he verily he． lieved that meluention，like inilualerg，liml beal when it wat left in
 with minuetry，ratigimn，anil literature，on they would finit with owiucatoon，that he epirit of pelf roliance amonani the people would be arousel，and they would have a more honect，heallig，and vigo omue eysirin lananay ajatem of publio ondownent was rapahlo of being nade．（Hicar，hear．）

Mr Andent，er suil the hon．gontleman who lad jult epoken had complained of the enormous amooum of sline rote，and in thal respect he（alr Alllerley）ngmpallised with hitm．The conatant gradual increan of the vote was matier for nerinue coostideration，and for
 that the volunte：prineciple wno suffirient in maintain，the national celueation of tha kingriom，ha must sutily ho oblivioun of minat wat the atate of celuceation lefore the preserns aystemi aan invticuted．If the lion．prolleman loukith hark to the atate of thinge which exised some 20 ur 2.5 jearen ago，bo woulid ere that a grent deal hail locun effected by the present aystem，noll that the state of things was now very different from what it was before the gysiem brepan．To what might shat be atributed？Simply to the mode in which the eystem had stimulated the voluntary puinciple throughout the country．Tho voluntary actinn of thin proplo diemaelren was that Which must bo looked io in the question of edacation．llat there was n poor class of paronts who couid not efficiently undertake tho task of eduraling thwir children；and it wne here，and here cnls，ilhat Government ahould come in and mapply cither tho abonnre of will or of power on they parti of the parente in fulfol thuir obligations to
 them wore the rich inliabitiants of the locality，ithe cmplogera of labour．These were the natural yuardiane and paitona of the poor： and $1 t$ was not unsil the parents had faidel in will or ability，shat it beeame almolutely nerexkary for heciovernment to atip in；Lust ev－ en then，when publec aul was nbligel to supplument lie incapacity of them parenta，the true priaciple way not to $\mu$ ，the treasury but appoal to local aid，（llear．）Tho house would，ho was surs，Ine alwalas realy to advanees he caunc of edusation ；hut it oughlin nover be forgotion liat the proper and tepithate timat of the expendi－ tnre under the entime es now before the comaniltee oughts to bo tho aupplementing of what was doue by the jeople thernselver． （hlear：）

Alr Cowren enid that the righe han genteman who hal juss ant down aduitted that the catimato was rery large．Whilu the gen． eralajatem and keneral minutes remaincil as they were，the ex－ penme mould go on incrocaing as it hat ineresmed while that ripht hon．gentleman was ia ofiree．He thought that overy exnnmination of the ashools under tha ingmetion of the l＇tiry Countuil hat been sufficient to jusity the expenditure．The aystem now nilopned could be alown to be ns gool as that in any country in Europe， and oaly failed to producu its full resultis on account of the nhort．＇ nens of the lime durine which the puphls wora puljected to its in． nuence．Ho beliuved tho country hall declared froell mo unerjui－ vecally in favour ufilues stem that there was hardly any use in re－opuning the argualeltt ngain．The country hal sande up its mind in favour of religious ellueration，and what the Government thid was so pive that reliphous ellucation the nill of werence．Tho （iovernment did nor teach，ellucation at all，nor did it intertere with religion，but only required that $s$ should be reportid on by the inspectors；en that the country hand all the benefite of a religioun education，without any of the crile of meringug on the rights of conselunce（Hear，herr．）The capatation grans had been come plamed of and he alunitued that it cualionly be justitied by shipu lating regular and punctina！attendanco．fo woult agree．， howurer，that wealliny whoola ought not to have the grant，but he believell that there were grrat nuanbers of schoola that would be broken up if the capitation grums were withdrawn．No doubt it was dastreasing to find that，atter a good aystemi of elucation was eatabluhed the children of tho country dild not avail hliemvelves of It；out sull ho could not tbink that any asatem of compulnion ought to bo altempted．Hear，bear．）They tnust，lherefore，rely on the norkmge of aight achools．Ho was surprised to heat the hon．mom－
ber for liendisey that the night methols ameitect by Goremement were injuring tha merbanise indthutes，Soimpresent whe he with
 ther to exienel the ternefits of（ineremement sicl to mer haniee ineti－ tales，whech hin thought mixht le lone in mome extent l＇nit they
 make np thmir minik io pay thin large sum，salufime that it wan，on tha whalf，well criployed
 this interealing yuration ；but at tha anme time he monbl not refrain
 epoech to whichithey tiad recenily listened from the han．merniser far lacente，and the giest plenaure in amesing hish in that houser－the fillest arena in whith he conald mate hie rifme．If wan afraill the hon．Eentleman bad hitumilf resandel tha durstion from very differ．
 histary of the edlu＂ntion of the people，conita lie ignorniti of the anal

 milar ghiakeres will resparl in the grath that was now infore them． Ther twoth viewed willi liserust the immornee nmuunt in whirh thin grant hall tionn；but tha hon．cemilemation liestruat atom from his opprosition to Stalo ancietanco loestucation of whatoref kind：whilo
 olinamed from that sinie nacisinnuer the maximum of aid whith they had a right in expeet from tis．On that pment ho rertainly hail a ront
 sules of tho haumet as to thin gmoing valure of lise vola．tha was
 nuld that if ther perravered in that eywiem，the lay wat not lar
 thou；he liore wae great foren and truth ill what the hon．mimember for locella mall with rexatil to lise vapitation grants；whils he dul not olijett to the expembliture of then or any otheramen on the all
 nimisteres un a lietier pyalem．，in which the pultice would have
 beliovn that any maril neting in Iamion could ailininimeter than fanil with the maxinam anmount of plliciuncy and ecornomy lie wethed to know whether than notle duko slill retaineth the previlency of that commimion？Ho aloo wishert inknow what proquet there was of recriving thu Krport of the Comumemenera？
 the c．aormous inerrawe in this rote．and that it was liknly on increato ratlor than liminish，but they nugho not wholly to regant thin voto an it appearel upon the ratimatere Thes oughe to enmparer it with tha leyports of ilie inapertorn if whomin：and allhough thoer R＂ports in their candul frelinganall dotsila，might not contaill as antinfactory nat account of the ellacation of tho country ne ihor could wigh，alit they developied a stealy null fair ration of lacta anil progrens；nind if Chere were one featurn more syrecablio than anowher in thero
 tey，anul which dealt with a clans of chililren wheme parents could not aforit to＂dueato them otherwies．Ile weuld liam the alten－ tion of the I＇rowident of the l＇oor Lan Buand to hisa lat gipto of the large experoliture staring thent in the fanc，there wan the yet important lact that liero were su0．000 poor chilitren not rocerving ary oluration in thes country，anil whol la．longeld to a laree projpir． tion of that dape of puupura who roceivell out loor relieft．Amelli－ nery had already been proviled for their celuestion，but the ane heng permisure＂10 wn dioquerativo．Froma a relurn hat liad bren furnishide no the siliject，out of G12 unions only 199 availed ihem－ aelves of tho det，the had negherted io avail iherifelogen of at alto－ gether；and of the 199 who hal avasfad the：ture｜ves the total name ber of children amounted to B 650 ．Tho A．t in gluestinte was the 18 Vie．，o． 94 ；and tha test plan that could ber aldopted for remiler． mige the det nore opurative was for hon．biembera and poor lam guar－ dians to exercion their inlluarne in their own datricts in proaution of the Ace，null to liring it into public notice．
Mr．Walitke asill the Gorernment inspection of these erhonls had been referied to as of condilemtlo imporianer，and ho thought thas an cound and etlicient aystens of innpoction was conlculated to girn greas and efrertivo aill；but it was to to regretted thas，in the pennral working of tho asktem，（iovirnment withhtild itn ais from
 Council ought more realily to arknowiedge these efforta，nul rent dor thu remuicite acistanove The inapertors＇Reporta frrnishel but an inadeguate indea of tho cifforta for celuration tnade through． out tho country．They utterly ipnorad sho existene of many well conilueled schools，aupporteil on the voluntary prineryin． Throughou＇the country He lart，on his own estate whools of flis kind thal had never enjoyed（iovernoment inapwewtion：and he bof ed，that ir he applied to the（iovernment for an inapertor，hie re－ quest would meet with a ready nequirexenco

Mr．Hesilex agreed mith hon．memisera that there mighe be
many dofecits in tho present syatem, but until thore mas a belter one they thuen go en with the existing one. Han. gentlemen had mated that the great defeets in tho present ayatem wire, that the truat duedo in the several scliools wero made too exclusivo with referenee to the percular nilignous hodies to whech thry belonged; but if there wat at evol of hiat eort it was bropght abous thy the netion of the l'rivy Cometil neell, causing it in be suspected that her wisherl in brugi in conserinnee clauses. A rast herly of the sehoof in this country were manly set about by the religoous feeling of the country in their own way and principle; and lou truated thant the right honouraliue pernteman would not take any steps to blow up the jealouses that moght exist, and the slumbering feelings on this quewtom, into a fire. (llear, hear.) He believed, atcorling to the eensus of 1831 , there wero 2.400 .000 receiving ellucasion in this country, of which number 800,000 were deale wilh by the l'riry Council. Consequently there were a vast number who did not mant pild, and who wishoul, whether they wero Preshyterisna, Roman Catholics, or Chureh of England mena, that nostrain nhould the put on the religions conacience of the people. There was one portion of the grant that nught to bo watehed-the portion exgenaled on training and produeving masters through the ngency of P's ibleashers. Linguestiombly one of tho greatest blots ant the ayatem was, that it hielpent the ruther and did nut afford adequate nsistanare to the poorer diextricts.

Mr. Lowk, in rolerenco to the queetion which hal been put atrout Puphltuachera, sall tha information ho possessed was not very aecurate, but atout 12 per cents. of them, ha belioved, stajed to :hus end of their times, and albout 83 per cent of then olitained cersificates. Of these most of them becamo schnoluanters. In an awir to the questum of the rixht hon. number for Drotroteh (Sir J. Pakngion), he mught say that he had no offic ial intormation of the proceednigs of the comminsum, "xarept that they hand sent him a set of quesumens which he had been unabile to answer. (A laugh) He hoped, howaver, that thes would report by the next aession of l'arliament. The hon gembleman who had movel the motion pro prosed to reduce the estimate by $\mathrm{Lis}, 000$, which was a defieit tor chrula jente.
Mr llativiklis aid hu proposed to reduce the vote by $£ 100,000$.
Mr lowz - Then that would simply have :he effect of creating a deficit of $£ 100,000$, which musi be pand noxt yoar, and it would haver no effeet ill reducting the expenditure. There mas an adinit. ted deht whirh must be paus.
Mr Hexlek thought liat this was rather an amk warid atatement. The (iuvernment had no control over the casimates, and now it ap. peared the house hail no consrol oither.
Mr Hadeirlid witbdrew bis motion, and the vote was agreed to.

## RDUCATIUNAL SISTFMS UF GEMMANY.

comthichtion of articlat on "the presian sibtex," in oun last no.

## $S A \bar{O} N Y$.

The Kingdom of Saxony is divided into four circles; each of whach has its sehool hourd, which has oharge of all primary schools and teachers' semmaries, and rugulates the appointment of teachers, and all peecumary matters-subordinate only to the Minister of Public Instruction. Next in authority is a district board of inspectors, having charge of several schools-mabordinate to the school board of the circle. The district board consiste of a superintendent, and a representative of the patrons of each school. The supermbendent is the district inspector, who must counsel with the board. visit all schools, and report on the fidulity and sapacity of each teacher. The lowest authority is a commatte for each school circuit, whose duty it is to hold semi-annual examinations in preseace of the distriot inspector, and report annually on the condition of the classes.

The law pronides that all children between the ages of six and fourteen shall go regularly to school ; but in the rural districts, children over ten yeary of age are exeupted from school attondance, during the season of harvest. Attached to each school is a person whose duty it is to ascertain the causes of atsence on the part of pupils; and he is entitled to a small fuef frous the pareuts for each call he makes upon them. No
hoy can be apprenticed until anter the ago at which ho may lawfully leave schuol.
Every school circuit must furnish a school housc, and a dwelling for the teacher. The schools are supported from funds of the church, from the intereat on doaations to the seliool fund, from fines lovied on parenta who neglect sending thair childron to school, from a paymont made to the school fund in purchases of property, from collections, from fees paid by the pupils, and from direot taxation. Theso fuuds are chargeable with tho master's salary, with furniture of the aschool, with books and slates for poor children. prizes, insurance, and incidental oxpenscs.
l'rimary schools in Saxony are of two grades, correaponding to the elementary and higher schools of Prussia. The prescribed course of instruction in the Normal Schools occupica four yeara; and no one can now recoive a cortificate ot gualification usa teacher, without having gone through the course, or showing all nmount of attaimment and practical skill which shall be deemed its equivalent.

With a population of $1,809,028$ in 1846 , thero was ono university, with 85 professors and 835 students; six academies of the Arts and Mining, with 43 profersors and teachers and 1,400 pupils ; eloven gymnasia, with 131 teachors and 1,590 pupils; six higher burgher and real suhools, with 18 teachers and 270 pupils; three special institutious for commerce and military affairs, with 43 teachers and 240 pupils; nine teachers' seminarics, with 41 teachers and 362 pupils; seventeen higher schools of industry or technical schools, with 72 teuchers and 779 pupils; sixty-nine lower technical schools, with 6,966 pupils; tweaty-four schools for laco making, with 37 teachers and 1,028 pupils; and 2.155 common schocls, with 2,175 teachers and 278,022 pupils; besides ons institution for the blind, one for deaf mutes, three orphan asylums, and a number of infant schools and privato seminarics.

## BADEN.

The Grand Duchy of İadon possesyes a regular series of echool authorities, from the Prime Minister down to the local school committee ; and is well provided with Normal Schools for the training of teachers. Purents are obliged to keep their children at school from the age of 6 to 14 . The school law is very minute, furnishing directions for the internal organization of pritmary schools. Schools that have but one teacher are to be divided into threo clusbes, to be counted from the lowest as first upward. In the summer half-year, the third or highest class has two morning hnurs of echooling dails; the second class has also two morning hours, and the first or lowest has tro hours in tho afternoon. In the winte- balf.year, the third or highest class bas three morning hours of instruction daily; the second class the first afternoon hour alone, and the second in conjunction with the first cluse. Care is to be taken that the pupils assemble punctually at the fixed hours, and that they are clean in persot and attire. They must also behave with propricty both on their way to and from school, and while at school. Permission to absent themselves from a single lesson may bo granted by the teacher; for more than one, the permission aust be obtained from the school inspector. School rooms must be ten feet in height, and be built on a scale of six square fect to a pupil.

The aim of the primary echool is to cultivate tis intellect of the child, and to form his understanding and religious principles, as well as to furaish him with the knowledge requisite for
his station in life. Instruction must theroforo bo imparted in such a manner as shall improve the mind. The pupil must have his attention sharpened, and his intellectual energies must be brought into activily. It must learn nothing mechanically. The memory nust not bo cultivated, except in connexion with the understanding and tho feelings. Tho formation of overy $i_{d e a}$ is to bo preceded by the requisite insight into its funda. mental principlo, whether exemplitid by objects or figuratively. In all explanations tho elementary principles must precedo tho complex riews. What has been learned must to made familiar by frequent application and illustration. The instraction given in the different classes inust correspond eith the plan hero laid down.

In each union (district or circle) the union inspector is obliged, eve: ${ }^{5}$ September, i. e., during the holidays, to send notices to all teaohers in his distriet, 10 assemblo nt a place and time specefied in tho notice: and ovory teacher who receives the notice is required by lave to attend. Noticess are also sent to nll the religious ministers of the union, that those who are ablo may meet the teachors. The cducational magistrate of tho county, or some one representing him, is also always at the meeting. The notices are sent round ay early as tho month of May preceding the meeting. The inspector, when he issues them, sends at the samo time to each teacher in his district, one or two questions on some point, conneoted either with the practice, or the methods of teaching, or with some of the vatious subjects of instructicn, and upon which there has been somo difference of opinion or practice; to which answers must be forwarded by the month of August. When tho inspector has secoived these answers, be reads them carefully through, and writes a short criticism of each, and reals it to the teachers when nssembled at the conforence. After tho inspector has read the answers and criticiems to the meeting, tho teachers proceed to debate the subject among themsolves, rising one af ter another, and addrossing the meeting upon it by turns When this debate is concluded, three teachers, selected at the previous mecting, are called upon to instruct a class of children before tho rest of the assenibly, in different branches of instruction. Their performances are theo criticised and discussed by the others, who had leon looking on as spectators.

## WIRTEMBERG.

Wirtemberg was one of the earliest of the German States to take effective measures for the adrancement of education, and at the present titue, provides on a liberal scale for the educa. tional wants of the whole community. Parents who keep their children from school, subject themselves to a fine, and even inuprisonment; and the children are compelled to attend school. There are six Teacher's Seminaries, one of which has at its head Director Denzel, who is the author of the tnost complete treatise cu education in any language. In his preface to the last edition he says: "When, three and twenty gears ago. I entered upon my present occupation, great exertions were already in progress for the improvement of the elementary schools of Uermnny. Much had been accomplished in particular states, and much active discusston was going on with respect to the methods pursued, and the best means of raising the qualifications of the schoolmaster. But the times required sowething more than had get been done for the popular schools. It cane more and more to be understood that the shool was not merely a place of instruction, but of education; that the common and necessary acquirenents of the arts of reading, writing, and cy-
phering wore not to be the sole or the principal objects of its care, but rather the unfolding and strengthening of the montal and bodily powers of the child conformably with naturo and circumstances. When this hegan to be hold to be tho province of the elementary school, a new era broke upon it. Viewed in this its new and loftier position, it assumed a totally different aspent, and all relating to it required to he dealt with in a more serions and sciontific mannor. This salutary ohange of view respecting tho real character and deating of the elementary school, though long in progress, becamo at length universal, chiefly through the geuius and exertions of P'estalozai, whose principles, evon whero only partially adopted, facilitated and infused a now spirit into the processes of teaching."

## $13 \wedge \vee \wedge I A$.

In llararia, the external wachinery for administering publio insuruction is similar to that of Saxony, nlready deceribed. All parents must send thoir childron to school, from six to fourteen yeats of age, or be fined. The courev of instruction ia tho samo ny in the priunary echools in other states of Germany. lirery school, according to law, must have a small nursery-garden under tho eare of the teacher, whero the pupils may learn the mode of treating trees and plants. Out of 6065 sohools, it appears from the official reports that 5284 had such grounds attached. Hy a regulation adopted in 1830, every teacher appointed to a.public school, must have qualificd himself at ono of the Normal Schools. There are seven of these institutions now in operation; five for Catholic, and two for l'rotestant teachers. The following remarks on the schools and teachers of Bavaria, nre from Kay's "Social Condition and Education of the People:"

When I was in Nuremberg, in the kingdom of Mavaria, I asked a poor man, whether thoy obliged him to send his children to school. He said, " $\downarrow$ es; I must either send then to school or educato then at homo, or I should be fined very heavily." I said. "I suppose you don't like these rules?" Ho answered, "Why not, sir ; I am a very poor man; I could not afford the time to teach my chididren myself, nor the expenese of paying for their education; the municipal nuthorities pay all the school fees for my children, and give them good clothes to wear at sehool; both my children and myself are the gainers by such a regulation; why should I object to it?"

In Ratisbon, I spent the whole of one day in company with a poor peasant; who acted as my guide. I maid to him, "Ilave you any good schools here for your children?" He answered with an air of astonishment, "Oh dear yes sir: all our children go to school; the law obliges us to send them to school, and provides good schnoly for them." I said, "But don't you dislike being olliged to send them to school?" He autwered, "Why should I, sir; the teachers are good and learned ben, and our children learn from them many things, which enablo them afterward to get on in the word much better than they would be ablo to do, if thoy were ignorant and incapable of studying." I asked agrin, " But what sort of men aro the teachers?" Ho answered, "Oh, they are very levrned men; they are all educated at the col'eges." I said again, " But are the teachers generally liked by the poor?" He answered, "Oh yes, they aro learned men, and teach our chaldreu many ubeful things."

When I reached Munich, according to my usual custom, I engaged a poor mana as my guide. I asked him to take me to see someof the schools, where the children of puor people were educated, and told him, that I did not wish to visit the beat, but the worst schoois in the city. Ile answered reo, "Sir, wo have no bad schools hero; the government has done a great deal for our schools, and they aro all very good." I said, "Well take me to the worst of those you know." He answered again, "I don't koow any poor one, but I will take you to
the ono where my own childeen go. I am a poor man, and cannot afford to pay nuythung for the ellucation ot my children, and many of the children that you will seo there are like my own. sent to the seliool at the expense of the city." * * *
I went first into the second claws room. The chaldren were so clean and rexpectably dresed, that I could not believe thoy wure the esiddren of poor persons. 1 expressed my doubt to my guide. His answer was, "My children are hero, sir ;" nad than turnitg to tho teacher, ho requested hun to tell mo, who were the parents of the children present. The tencher made tho children stand up, one after another, and tell we who their parents were. Prom them I learned, that two were tho sons of counta, one the aon of a physician, one of an officer of the rognl houschold, one of a portor, and others of mechanics, artizans, and of Inbourers, who were too poor to pay for their children's education, and whose children were clothed and educated at the expense of the town. 'lhey all sat at the samo deshs together. thes were all clothed with oqual respoctability. In thoir manners, dress, cleauliness, and appearance, I could discern no striking differenco. My infercuce from this interesting scene was, that the children of the German poor must bo in a very different state from that of the children of our English poor, to allow of such an intercourse, and to enable the richer clases to educate their vons at the same desks with the children of tho peasants.
After sponding some time in the different class rooms, I went to tho town hall to ree the chicf educational authority for the city. Outsido his door, I found a poor woman raiting to sce him. I asked her what she wantel. Stesain, sho had a litilo girl of five years of ngo. and that she wanted to persuade the minister to allow her to send her litte daughter to sehool a year before tho legal ago for melmission, which in liavaria is tho completion of the sixth year. I said to her, "Why are you so anrious to send your child to school no early ?" She nusvered, smiling at wy question ; "Ithe children learn at school so much, which is usefui to them in after life, that I want her to begin as soon as possible." I thought to myself, this does not look ns if the people dislike being obliged to alucate their children.

## AGRICULTURAL.


1.-..THEORY OF AGRICULTURE.

## VGGBTABLE PIYSIOLOGY.

Is our last article on this subject we presented an outline of the olementary contents of every part of the Vegetable King. dom. We showel that the basis of all vegetation is cellular tissuc, that this enters into tue comprosition of every part- the rowt, the stem, the loaf, fluwer, fruit, and seed-aind that both the rascular and fibrous tissue as but the clongation and coduration of this substance.

Wo proceed to make a fer obscrvations on each of the compound organs. The term organ is derived from the Greek word
organon, which signifies an instrument or weapon, and is applied to thoso parts of plants or animals which perform cortain functions or offices. In tho Vegetable Kingdom, these orgnus are regarded in a trofold aspect ; those essential to vegetation. - the root, stem and leal. and those essential to reproduction,the stamens and pistils. The kinowledge of these is termed Organograpliy, and the office which each of these discharges is, properly speaking. Vogetablo Physiology. $A s$, however, a knowledge of theso organis is necessary beforo we can fully comprehend the functions they discharge. the struoture and the form of these, or, in scientific language, their anatomy and Organography, are all embraced in the inportant branch usually designated Vegetable Plysiology. Wo shall therefore discuss cach of these in order.

TILE 1200 T .
This constitutes one of the most important organs of vegotation, hoth in its relation to tho plant in general, and to the Animal Kingdom. As soon as a certain amount of moisture, air and heat, congemal to the naturo of the plant, comes in centact with the seed, the embryo contained withio the outer lohes or coverings germinates, and manifests its polarity, ono end growing upwards and the other downwards. The part that grows downwards, or the deacending axis, is designated tho root. Between the aseending and descending axis thero is an exact correspondence. As the stem shoots out, either verticully or horizontally, so does the root. The expansion of every bud and leaf requires a fresh supply of nutriment, and this demands a new mouth, or orifice. The rools commue to spread and produce nesw cells or fibrils, which absorb the fluid required to compensato for that lost by ovaporation or consumed in growth. In this way the rain which falls on a tree drops from the branches on that part of the soil which is situated imnediately above the absorbing fibrils of the roots. It is not by watering a tree close to the trunk that it will be kopt in vigour, but by applying tho witer on the soil at tho part corresponding to the cuds of the branches. "We have here," says Roget, "a striking instasec of that beautiful correspondence which has been estatilished between processes belonging to different departments of mature, and which are made to concur in the production of such remote effects as could never have been accomplished without these preconcerted and harmonious adjustments. If the roots aro uot allowod to extend freely, they exhaust tho soil around them, and aro prevented from receiving a sufficient supply of food. The plants, in such a case. deprived of their proper means of support, become stunted and detormed. Another beautiful provision in the root, so strikingly indicative of design on the prart of the great Oreator, is the elongation of the roots taking place at their extrenity, so that their advancing points are enabled easily to accommodate themselves to the nature of the soil in which the plant grows If the roots had increased by additions throughout their whole extent, in the same wav as stems, they would, in many instances, when meeting with an impenetrable soil, have been twisted in such a way, as to unfit them for the free transmission of fluid. But, by the mode of lengthening at the point, they insinuate themselves easily into the yielding part of the soil, and, when obstacles are presented to their progress, they wind round about then until they reach a less resisting medium. They are thus also enablad to move from one part of the soil to the other, according as the nourishment is exhausted.

The root, when viewed externally, is mado up of three parts, - the collar, the belly, or the thick part, whether fibrous or cellular, and the small fibres, or rootlets, or spongeoles. The first forms an important part in all herbaceous plants, whether biennial or peremnial, as it is from it that the bud cmanates every suceceding Spring. In transplanting all such plants, erery possible care ought to be taken that the collar be neither too deep in the soil, nor too high above it, and thereby entail canker or some disease upon the plant. The thick or middle part of the root is hard and woody in shrubs and trees. and succulent and soft in herbaceous, and, especially, in biennial plants. In the latter sort of plants it forms a reservoir of nourishnient for the growth of the plant the following Spriug. The cellular tissue, of which it is made up, is all transferred to the flower
and seed, in tho Jatter of which it remains in a concentrated condiaion, and leaves the root nothing but a mass of wooly fibre. It is thes sort of root that is mainly used for culinary or kitchen purposes, as in the ense of Turnip, leet hout, Carrot. So. And here, again, we see another benutiful adaptation of the vegetable to the animal, thereby furnishing incontestille evidence of design on the part of the Creator. In what climate do wo find biennial plante in greateat ahundance and growing with most luxuriance? In Jrigid reginns, or in temperate with long and protracted winters. And all this plainly for the purposo of providing an adequate supply of cellular tissuo for the animal-that tissuc in which the essence of regetation resides; in the same way, and for the same reason, that we hase the greatest supply of luscious fruit in tropiral comutrics. The other part of the root is the rootlets, or the little fibres that cover the whole of cho fleshy parts, but which aro generally more plentiful at the extremities. It is hy means of these, ns so many sponges that the rarious substanecs are absorbed from the surrounding soil, in a state of solution, congenial to the nature of the plant in all its parts. There is a marvellous instinctive powor poscessed by theso spongeoles, at one time taking up certain ingredients to tho exclusion of others, and at another stage in tho progressive growth of the plont absorbing those very substances which but a little before ware rejected The wheat rootlets, for example, during the growth of the ntalk, absorb chiefly tho silicious substances held in solution in the surronting soil, but, during the swelling and riponing of the grain, they reject these and tako up the sulphates;-and so with every other plant nad shrub and tree. And if such is the tendency of theso rootlets, and such the important functions they dischnrge, it ia olear that the utmost care is repuisite to supply them with the nutriment congenial to the nature of the plant, as well as to dofend them from all aceidenta or casualties. On this account the roots of plants should not be disturbed at the tume when they are in active operation. During the season of gromth, when the branches and leaves are pushing forth, the roots are alse devoloping their ruvititw, und oonotuntly annawing their delicate absorbing extremitics. Any attenjot to transplant at this period is attended with surious injury, because those minuto fibrils are destroyed by menns of which the fluid transferred by the leaves is restored. It is ouly in Antumn, when the rootlots cease to grow, and absorption becomes languid, or in carly Spring. before their activity begins, that transplanting ean be pradently conducted. In transplanting large tices it has been customary to cut the roots all round, at some distance from the trunk, the season before they aro removed. Thus an opportunity is afforded for the production of new fibrils, which, after transplantation, are ready to absorb nourishment.

There is considerable variety in the form of the roots, that being greatly modified by the age or duration of the plant, whether it be an anmual, or biennial, or peremial. An annual plant, as all are well aware, is just a plant that germinates, regetates, hears blossoms and feeds the fitst year of its existence; and linving thus served the end of its !eeing, as well as provided for its perpetuation and propagation, it withers nud decays and dies. Such plants do not, of course, requiro to lay up any store of nomrishment in the shape of organized unatter for the following Spring. and, accordinely, the greater proportion of them possess nhat are called, from their texture, fibrous roots. 13iconial plants, again, are those which neither fower nor seed till the second year, and, having done so, their strength is expanded, and they too wither and die. These lay up a stock of organized matter for their growth the following Syring, and thus their roots form a reservoir of nourishment, as well as serve to keep the plant in a fixed posture. These roots are very diversified in their form, sometimes they are conical, as in the Carrot or Beet Moot; sometimes they are napiform, as in the Turnip, \&c.Perennial plants, whether they aro herbaceous, or shrubs, or trees, aus those which continue for years, it may be for a longer or shorter number, and which are propagated not only hy seed. but by a process of self-multiplization, whether by offsets, or lajers, or suchers. These, two, are of every variety of form aud mode of growth, -sonetimes they are tuberous; at other times, they are palmate; and at other times, bulbous. We said at the outset that the root generally deseends into the soil,
while the stom nseends into the air; but there nro other kinds of roots, deriving their names from their natury or hahits.Sonie send their roots or mekers into tho suhatanco of other planta, nither dead or living, and derive their find entirely from them. Such are enlled parasitical, and they may he illustrated in the case of moulds and langi, growing on the derajing stumps of trees, and causing disenses in corn and other phantdodhe, which injures flax annl elover hy heving on their juivew, broomrapes and sealowort. There paranites have cither no leaves, or only hrown seales on their stems; othera, as a mis. thetoc, have green lenses, which alter the juires taken from tho stock by expouse to the air and light. The stuly of the growth of parastic fungi is a suhyert of great importanco, as many dis. eases in phants, animals, and men, nppear to bo cither caused or modfifed by them. Dry-rot, for instance, is attributed to tho attack of a fungus, so also are ecertain diseases of the skin and mucons membrane in man nad animals.

But there are other kinds of roots. 'There are some sorts of trees, at the end of whose buds roots come out, anl uvine their polarity by descending downwaris till they rearh the soil, amil lorm other trees. These are called ermal, madare well illustra. ted liy the Banyan I'ree of Tudia, which exhihits its roots in a remarkahio manner. 'These proceed from all parte of its utem and bramehes and ultimately reach the soil, forming numerous sicms, which support this wide-spreading treo. 'Tho fannous Nerbudda l3angm has 300 larger and 3,000 smallor stems, and it is said to be capable of sheltering 7,000 .

## "Such, too, the Imbian fig that buile iteelf Into a sylvan semple, arched alour With airy isles and living collonadea."

13ut there are other kinds of roots still. There are the ronts of plants that are supported entirely by the atinosphorio nir, and are generaily indigenous to most tropieal climates. They are designated epiphyial.
Tbe root supplies many Scripture illustrations, hoth as fixing the plant and as drawing up nouriwhenent. Thus, in Hosea xiv. 5. Israel, when restored, is stald to ${ }^{\circ}$ cast forth his roots as Lehmon." As being the source of life to his Church. ('hrist is sometimes likened to the root. In Revelations v. 5. He is called the root of David. Though at first Ile was derpised and rejected by men, as a root out of the dry groumd, yet, us tho tree whose leaves are for the healing of the minions, He shall overthadow the work, having the uttermost parts of the earth for His possession.

## II.-PRACTICE OF AGRICULTURE.

## manuring grass lands.

In no department of farming in there a nomere radial call for ins. provemont, than in the managemut of our mundows and partures
 land whith will prowhe diese larisely, will prodace genis. corn and roots-will suntatia a puond proportion of ato $k$, and thas furman withun itself the means of keeprog uf and improving ite ferrility These assertions aruseemagly so self evident, that we must bug pardon of the intellise at reader for referring so frecuently to the sulyect And yet the intelligent reader who looks, perhaps, over his own farm. certanly on the faras around hiul, will see that no word is out of place, which ean attract attention to the guestion before us. We shall now remark simply on top dressing meaduwsthe present beng a favorable echason ior them operation.

For mprowing the gichl of graos. a.al additig to the promanent fertility of the sol, we cannot do betler with uar fine manure, than to apply it after haying ax a tol drosing th dre hand meadows or pastures. It will pise new vigor to the growth ot grast, and merrave the thickness of the swarl, so that even wire it to the plowed the next season tor a pran crop, the mathure could nut he better timed or applied. For cueadow or pasiure the pronince would be larpely ancreased both it qualing and quantity. On wot hand, dra mation
 gained from manuring a soil saturated with water during the wet geasons of the gear.

On loaniy mila the diftirnont compmen of muck with manume ashca, lance, punno. est., will bu found valuable, and an aldition of jilaster to the composi catunot well come amas. For mucky moils, manure, comprosted with leath or clay will be appropriato, and there alone - as in the case wilh muik on uplancl-will be found a valualile means of improvement. Bonn manure, when it call be provirent, ia an extrenely valuablio ferthlizer for grasa, and no inr. mer should noslect to employ in a broken state, all the bones within hir remils upon tho farm.

We have cers an account of an experiment where diry stram aprend thinly over the surface of a mendow, after having produced a large increase in grase-acting perhajia as a sort of mulch to the ronts. preventing the eficiets of drouth, hisling a light manering na It decayed. Tluff ashes act very beveficially upon prass land, and nome larmiers uso them largely as a lop dressing for mealows. Country Genllemin.

## CUL,TUBE OF BABLLET:

This praill is raifel to a groaler or lesa extent all over Now FingInnd, and wo thank cught to lakr the pince of hurdreds of acres what are devoted toonts, as it is better alapted to suedicut down land with, than oats, reyurre lean keed, ripuens ns well, and is ad. miratily fieted to our ahort hot sumbura,-ithe average producta will bo menily as much as onts, and when batvested is wortha thiml more for horaes, hoge, poultry or catilo. No grain makes a sireeter and more nutritous breaci to be enten while it is warm Thu culebrated Warren liastinga onee sail " shat it is of the preatest ituporiance to prominte the culture of this sore of aratil-it is she corn that next to rue gives the grvatest amount of thour per nere," The cow keepurs ahout London culivate it as spring food for their milels cows. Ithe Komans used to cultivate it extensurely; made the meal into halls, and tee, ihear horsee and ansus whlh it, which was mail to make them atmug and lunty.
llarlay slinuld be suwed early, on warm, sandy, gravelly loams, rather than on alluvial noils. Aliliough a northern plant, like tho fadian corm, it beves the hent of our glawing nanumer digys. We have meen fine erops of it on our granite bills, prowing crect, without weeds, and rielining thr:y to torty bushein per acre,-and the hot

 choire of perell. It dhoold be of a pale, lively reolor, and the paraine ahoulid the plump and tair. Such serel xill throw up stroug healthy otedina. cinpiable of resistong untomarl changes of flies searone, and result in produring a gexul erop In Finglatil it is often mown as food forsherep, and is said to the far nure productive than rye, as it admits of boing firl doven luritug the sumber. It zowed early, and intended for seed, it mas bet fied off ill the firat part ot the aca-


## GATHERAN(: ASH) PRESERVISG FULTTT.

Hy hoxncily mussett.
Whorver mouht derive large profits and pricer from him oreharil, thast he forepiated lutakn are of his fruits, as after they arw mown the:s lase to be pathered and proeneried; and the buiter thes part of the work is done, she more pruftes will be ohenined. Besides, it
 be warelies th the market whes they are north the most money.

Then hest mode of gathering an get kmown is by hand with ithe ail of self-supporting ladders, and ramall baskers cushioned on the thande. Theres are iarions rontrivances, antil some of them really neret all the repuirements wanted, with the exceproms that they use upios mimbla bine There contrivances answer fur amateurs, but nut fur tarmern, Fiery truit taken from the tree shosid have tia walk uribroketn. It ahousid he ga.hered by hand, and placed in the lianker, enrefully and leghily, not allowing it to drap, or to knock apnimit other fruit, or apisinst any sulatance that would brume if in the slaghtest dojeree. The same caro should be taken In removing the fruit wheng gathered in the fruit room, or filace whero they are to tre kept. They should not be removed in a wapon on "wherel harrow Thes slinula be carriced in laryu baskita on a liami barruw. fur that is the only methon by which they cati emafie a cortatil amonnt of jolting.
[he suoner winher frums are remuved io where they are to be
 them is in rellers, whene there are no apecial linuit romens provided for them. If they have te lue kept in barrels, rath barrel should be clean and dry betore the fruit is put mo them. Then they should be land in as carefully ay if they were cipps, for good keeping winter apples are worth is much, anil gool winter pears are worth a grest deal more. But thouph it is the practive to put fruit in barrels to keep, it is not one that can bo recommenled, unless the fruit is about to be sent to market mathir a short time. When in
barrela almo, fruit cannot be inspectel and watrhed, the decayed or direaying ones removel, and good eupervision mainiainet.

Shelves are much better, nod these sliclene might be mo arranged and diviled that rachabulivisuon mould hold the produce of a aingie treo. I3y thas kecping the fruit of each tree separate, thenre would be less danger of spoiling. Trees of the same variety fro. quently arow fruit vory ditierent in qaalily, ansl mhile tho provluio of some will be scabby and wormy, tho fruit of other trees will bus freo from these defects. A range of shelves, each one inpable of holding from five to six bushels or iwo harrela, would accommolato an orchand very wall. For a tree that produces two barrula of clioive fruit worthy at being kept over, may lon considered a first rate tree; and an orchard that contains finy of these trees in a first rato paying inveatneut. By keeping sorts acparate, and aven tho Hroxih of cacls trep from cach other, much sorting and picking will be avoided. No frui' should go upon ahelves that is not first sate in quality: Tho cullinge, which may be usel or sold, could be preseryed vither in barrets or on the door, fill got ride of by sule or olhervisc.

The fruit ronm should be a cellar, capable of being well ventilatel, and inade dry befom the fruit is plawell in it. Uut afturwarda it ahould be kept close, dark, and the femperature shondll at all timses rangn between $35^{\circ}$ and $45^{\circ}$ Farenheit. L,ight and heat both art on the fruit and rause it in mature; snd maturity is alwaye follownd within a short period by derny. Itenco all fruit shonuld bo pathered at a period luffre thoy berme cuite tipe. Thu low tomperature and the exclission of light dulays the time of maturity, hunce tho keeping quality.

A F'rencl writur. in the Jevese Jorticale, also chaima that all tho carbonic acid evolved from the fruit, mhould, if possible, bu retained in the room Hence after the fruit is put in its place, the room ought not to be ventilated, as this mould permit this gas to escape, anil alno change the temperatura. The same writer also charges on yood grounds that all moislure or humidity should be kept out of tho fruit room, as it likerise promotes decomposition, but the nir should not be ton dry, as then the fivit would diry up and wither.

Itis calculated that a room 15 feet long, 12 fret wilie and 9 fect high waild holl shulves anough for 8000 larye sizell pinter apples or pears, allowing unch one to vecupy an area olfour inches syuare an that no truit would fuuch carlh other. Allowing 150 analeat in a
 of which would touch the other, or at leas: 1200 buxhels whery thry wire piled iwo in height. Thoses who have goold cellers for fruit will now sen the advanage of them; but wo shouhs greter a room in the ouchard buile under the shade ef the trees, in the amate. ner of an we-bouse, with double walls, doors and windows.-D/ichigan l'urmer.

## 111.-AGRICULTURAL INTELLIGENCE.

## RETURNS TO CIRCULAIRS.

We beg to ncknowladge the receipt oí a few more returns to the Circulars on Agriculture we issurd a few montha ago. We give bיlow a few more specimens of these returns. In our next issue we shall classify the athswers, and offer a few euggestions on ench of the topics embraced in these Circulure, conseculively ; thereby opening ip the past histary, the present comdition, and the future prospects of Agricul. ture in the: Province.

Mis:quodobnit, August 5th, 1853.
Dear Sir,-
1 received a Circular from you nome titna njo and delayed answerug it uxpecting a merting of the Committeu that I night lay it before them, but have heen disappointerl

Agriculture has progreased rapudy in this dissrict for thes last fampears. Faramers have buenme more industrious. Since the lailure of the wheat and poratoe crops, they have furned their attention more to raising Srock, they are charing up the $s$ wampe and converting theon into good hay lanil.

Very liflea attention is paili so the rotation of crops. The aront want is the want of manure. Great attention is paid to the manufacture of Compost Beds.
'Hhere is a greai dual of lanil in this district still in its natural state. I think the average amount of arablo land cultivated by each Faraser is about 50 actes.

The people generally have a copy of Dawson's Agriculture of

Thern ia no l＇eriodiral on dgrirulture cirrulated in the District．
I thunk the dgruwlural Society has lyen a preat benefit to this Dastrict．It has heen the means of bringuga new serita mito the place，improving the breed of Stock，and purchasing labor saring machimes wheth would not otlierwise have been．
Our Society is still in poai staniling，it numbers about $\mathbf{3 0} \mathrm{mem}$－ bere who par 5a，annuallv．Wo have tro Threshing Machines， and are about purchas．ng another whelh cost nbsut 243 cach
We trust that tho Drovinctai Grant thoughamall will still be continued．

1 am vours，
C．N．Simott．
Secy．of I．M．A．Suciely．

## Durhan，July 21st．， 1859.

## Dran Sin，－

1 receired ynur Circular dated 1st June a ahort time ano，and would ninfe in reply that I took the earliest opportunity of sultmit

A rommittee was appointed to consulur tho questions therew contanned，and have uistructerd me in nower as iollows：
las．Ayruculture is progressing stealily and is now in a more ad． vanced anate than ever before whath is in be attributed mainly to the operations of thu Auriualtural Sorioties．
2．1．There is little or no attentives pail to tho rutation of Crops．
ad．Artifical ferctizers have beren lately ineroduced，attention is very gemerally pand to Comproul Buds．
thi．The average amount of nrable land cultivated is nt least 40 acres to cach firtu－rout cropis will average two acres to cach furm．

6．There is none．
i．They have been of convilurable benefit at leant in the in－ provement of sta．k A liberal grant from the logisature to assiat in establisting Molel farms would render them atill anore benefi－ cial．
8ith．An arquaintance with Agrieultural Cheniatry．
The Fertilizer latily introdured is the Concentrative Fertilizor manufa：tured by＂Couke and Eimerink，Pliladelphis．＂

Junt Mckenaix．
siccy．l＇icluu Ayr．Sociely．
Windsor，July 3th， 1859.
Drabis Sit，－
I heg to acknowiedge the receipt of your Circular of the first of June which was laid before a meellong of the Bunts Apricultural Society hell thistay．The limits of this Sovinty coruprise the Tomiships of Windeor and Falmoush．Two peneral mevtings of the Snciety are helli esery year，viz on the first Tuestay or Janu－ ary and the first Tuesday of July．At the danuary meetine the accoun：s of the previnus year are examined and passed，and the annual election of offieres takes place．Jolun Brown Faq．．wase－ lected Pregident，Jamey Dill，＇Truasurer，and Samuel Palmer，Sece－ retary for the preeent year．The＇reawerer＇s aceounts nhowing the reconpts and expenditures of the Sounty up to lat of January． 1859，is berewith ruclosed Agrieulilural operations bave been moderately proprexsive in this distriet for seceral years past and a minvemene＇n the righe direction is still apparent．Fields are laill off and cultrsated whit more order．Rotatun of erups recenves pencral allention from tarmers of any prelensions and the peneral apperarance of the country exhibits a diaposition in the farming popmlation not only to pruluce good present eropis but to inprove and eurich the suil．

Imported artificial fertilizers are oceasionally used，but not by farmers generally．

Very particular attention is paid to the formation of compost and every available means is usid to increase and economize the natoral manuree of the district．

The deposit of salt sand from the hanks and bedn of the tide rivers foruss a valuable manure for uplands and ss much used both in making compost and in a raw state．In the latter a dreasing of from one to two hundred cart loads per atre（which in many ca－ ses can be put on at a tuoderate expmine）will give a pooll crop of wheat on the most barren soll euther clay or sand，and if repeated a few times at intervals of four or five years apari will entirely change the nature making it nearly as productive as qood djked marsh．

The diff．rence in extent of farmb is nuch that an average esti－ mate of the quantity of land cultivated by each farmer coulf not the made with any degree of accuracy．The neeessity of a large sup－ ply of hay for winter use miduces most occupiers of dyked marsh to keep it under prass as much as possible；ploughing only when the grass roots show symptoms of failure，and after one or at most two
crops of grain aceding lown．Ae no manure is recyuired green
 erally keep almut one thand of ther sillaze uphand unifor green crop，not aliomug themerlves to break up more sward in one yenr han they eall inanurn wrill，the nexs seaton in green erny nnis sow with what or barley and grase seed fur layiug down the following year．
A copy of Dameon＇s Aqriculturn of Norn Sustia is in posenessi 11 of every member of this Siviert！，and it is lielievell of movel tarmers in the district．Sereral of the best agricultural perimticals of the nombern sates nre taker，in the dissifiet．The good effeets of this Sociots aro pantieularly evineed in tho improvement which has taken place in live stock，every year＇a expurience aloming that breeders pay more attention to the selection of animata for the purpose nod to their trentment．Fiela oporations have also been stinulated to a considerable eatent．Verry much atill rmmaina to bedone，and although the J，egislature and Spricultural Socirtica niny do much to asimulate andid oxsas in alarting many olijects high．
If ailvantageous to tho country， got it must rest witi frrmera and fand ownurs kenernlly to enrry out detnils hy which，if alive io their antl cilteresta，they may make the Provinee more froperous ns well as improve their cwa pormmal circumalanees Vory fen． It is presumed，will deny that a lifle more enorgy and appliceation of the meana at hant would have phaed as mulh nearer gerfore－ tum it axpicultural manerstian wn are at prevent It is luppel that bernetis will he produced by the introdnerion of railroalls，nuel il any other syanem could but miroduced by whith farmere could have a market near home by which tho exprone athl loas of time attending the olit phnn of ruilunk to the precarious market nt llati－ fnx could be nvonded it conld not fail to letter the condition of tho grower notwithstanding any disalvantage to the consumer
I ain inarructed to．ronvey to youretelf persounlly the thanks of this Society for your kininess in coinsenting to diecharper tho duties in－ vnivel in the rerolution of the lageislaturn itn its last seasion．And with sincere wishes for gour heralih nuil happinesa．

1 am Reversud Sir．
your abellent aervant
Samuri．Pat，mer．
Secy．to the Mants Agriculthral Sicciely
Rev．Da Fonnkstkr，Suprintundent of Education．

Guysbom，Sept． 12 th， 1850.
1at．The state of Aericulture in this distict is not such as our Soc iety could wiah，but bas been progresaive llee past few yonors． The calsens that nave manly operated are，the failure of the fivheries and poato ciop，the preater part of our pupalation hitherto have
 farmers have jand greater altention in worling their farmes，nal thereby mernatne theor grain and roed cropm，and 1 may alao meld that ila markete the pastew ：eare have biou marie remunerative and our young men more disposed to follow the oecupation of farming．

Ent．Somp of our farmers pay aftention to tho Rutation of Crops， but it is not as preneral as it ought in bre．
3ril．Artific：al fertiluzers are ver！rarely used．In general not mula aterntion in paid to Compost Beils．
the．This is liftieule to answar．The greater part of ourfirmers liave ton tuthil lami whelowed．If they hat one halfof their preatot enclosure under cultivatum，thev would reap far preater benefic than they now do from the whole，herides a zreat savin：of lator． The averate amount of arable land cultivalod by eath farmer mas bo aiouut filteren aties，the propurtion of grail and other empers about one fourth．
sth．I do not think nur Fariners poseess Diwson＇s Agricultural work，sith the excerption of the membery of our Ser－iety．

Gth．There is no Petiodical on Aerric ulture circulated in this dis－ trict．

7h．I think that the Agrieultural Societies，as at preaent man－ aged，have been productive of great benefit to the cause of Agri． culture．The funda of our Soctets the past few years having been apent in purchasing cattle，shrep and implements of the best des－ cription，whereby our atock has teren much improved，eapecially that of Sheug．I am sorry to say that our tarmers，for whose be． nefit thoso Societien aro designed，do not give them that support
 make them more b－netienat except it wonll he an merease in the I＇rovincial Grant，and an annual exhibition open for competition to the whole disirict．

8th．I believe that a geod Agricultural celucation would be tho best means of imparting an unpulse to this inportant branch of in－ dustry．

1 reunain．Sir，yours truly，
Whiliam Hahtbionsf，
Secretary．
$\square$

Mullle liver, Vietoria Co., Sept. 12th, 1859.

## Drar Str.-

I now expreses rearet thas I Ahonlit harn delared mo lone in ace. knowledging the recript of your prinird Cinvelar of 1at. Jnne. 1 anbmit the following ansartera to your Queries on tho subject of Ayrinulture, viz:
tat. The present rondition of Agriculture in our ditrict, is in arery resperel prozeresivn and has beren so sunce the institution of our Socivity in is4.5. This ctate of progress arisen from tho encourageruent given hig the Lecgialaturo
 oate, pointones, wheat or harley, snd then into grase, and the same pravitio gnvernlty followed in phoughrel land.

 lanil. Lemo which aloundis in chis diserict is at all limes used as a fertilizer.
sth. The averagn arnhif land cultivated hy eark farmer within the hal filtern yener muter each erop ionkwit fiftern neren vielding

3th. This Sowiely is will rupplied with loawon's and Judge

Gilh Thens is me jerioshund ased on Agrivilume exrept the Eduratiomal and Agriculural dournal, which is gnining popalarity from tho woontial mutijuren treatere.
Th. Thum managearent of no dgriemlluml Socirty has heen pro.
 for the encouragement recrivell from (invernement.
Bith. The gramil irsmileratum for imparting not impulse to this ingmrant hranch of industry is the llounty reerived by ench So riety nal visably appears to crinte $n$ stimulus for reniering food empio to tho farmer.
91h. 'Tho prevniline quality of the land in this district in a mixture of clay anil loam

I lavis tho honor to remain, Hev. iear Sir,
Your anot olvit servant,
Joms Mclarisan.
Stey. Agr. Sirciety of IMïhlle Rirer.

J, IIIF.AX, N: S., jUL,Y, 185R.

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