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# EUUCATION

THE QF NOVA SCOTIA. PROVINCE FOR

#### TEACHERS' ASSOCIATION.

TEACHERS' Associations or kindred institutions are not un-Where systems of public schools prevail, if an common. ambition for elevating and extending such institutions exist, we invariably find them. That Teachers and the friends of Education should unite in Associations and Institutes, is to be expected and, by all means, to be encouraged. The different professions have their Societies, Clubs, and Associations, the aim of which is to watch over the interests of those who compose them, and, when needed, throw the united influence of the whole body around the commonweal. Hence, we have Medical Societies, Law Associations, Chambers of Commerce, Arts' Union, Trades' Associations and many other societies, the object of which is to watch over the interests of the members, and as far as they have a common claim exercise a fostering supervision. Educators would certainly appear to a disadvantage did they not take a hint from these almost numberless organizations, and unite on some common ground for a common good. Such institutions are a necessity, especially to teachers, who, by their engagements, are so sundered from each other that opportunities for personal interchange of sentiment and views are rare privileges, and who, from being exposed to varied influences and conflicting inducements, are-unless they have some central and recognized organization-sure to be exposed to all the disadvantages of a people aiming to promote common good, by contradictory and conflicting views and efforts.

An association is, therefore, evidently necessary to centralization and unity, in order to promote whatever may relate to the common good of the profession. But on this point-" what is the common good?"-intelligent men may entertain diverse and opposing notions; opinions are formed according to the standpoint whence the view is taken, or different facts may be so presented that men of equal ability for forming a correct judgment may arrive at conclusions widely sundered and even of hostile tendency. Associations bring intelligent men into contact with each otheropinions meet opinion-arguments confront argument-a large amount of knowledge and experience is so brought to view, that the direction in which the commonweal lies is readily discerned, and, when once seen, little effort is needed to prompt the ambitious to certain success. Such advantages result from Teachers Associations, and are motives which urge to form and maintain them with jealous solicitude, as means to a valuable end. But there are dangers, some of which are common to all such bodiessome few peculiar to Educational organizations. Designing and cunning men not unfrequently obtain a footing with the design of using them as the means to gratify personal ambition, t' ugh such may be subversive of the very design for which the were formed. The wily, artful politician, or sly and cunning partisan not unfrequently subordinates to his own base purpose the best efforts of the unsuspicious and confiding, so that valuable energy and capability for good are often perverted. There is much of this in many Associations, as the members of various Clubs have found by bitter experience-where misdirected energy, misapplied influence, and misapprehended worth and zeal have rendered abortive the well-meant labors of societies of honest men.

The teaching staff of a Province like this must necessarily be scattered and in contact with fevery diversity of character and ambition, acting as disintegrating agencies, with little to abate their forces. If success is contemplated with any degree of certainty at the offset, the Association must guard against the danger above suggested, and make escape from such a primary consideration. The purpose for which the Association is organized, and for which the co-operation of its members is invited, physically, all that the most fastidious could reasonably hope for.

should stand out with all possible distinctness in a well-formed Constitution, so unambiguous and unequivocal as to defy artifice, affording at once protection to the virtuous and a barrier to baffle the artful. The principles and aim of the Association being set forth in a well-digested Constitution, but little difficulty will be found in working out the purpose of the organization; for every member knowing the law will have a keen eye to order and constitutional authority. The Constitution should cover the ground to be cultivated, it should also confine all accivities to a legitimate sphere. If such limitations are not sharply and carefully guarded, the presiding officer will find his powers questioned and at times disregarded and defied, and the meeting, instead of being one of order, a scene of perplexing tumult and strife. If officers are to know their duties, and honorably discharge them: if members are to understand their rights and privileges, so as to exer cise them; if the Association is to act with a conviction of its own dignity and position, and if the esteem of those without is to be claimed and possessed, then must the Association have a carefully digested code of laws and by-laws, defining and fixing the position and rights of all the members. With such a basis, chicient action is secured, and the fraternal commingling of thought and sympathy with the whole brotherhood. As a result, the best men will gladly accept offices of responsibility, as those of honor, and quickly impress their own intellectual and moral likeness upon the Society they are called to govern. It is presumable that the Teachers of Nova Scotia will place at the head of the Association their best men, among whom not a few may be found fitted for stations of responsibility and honor.

From causes, which we do not care now to consider, the recent Association, at Picton, did not obtain the measure of success hoped for by those who attended: though, doubtless, the papers, prepared and read by several teachers, had much to commend them to the attention of the thoughtful, and were evidently the results of talent, learning, and experience; but from want of careful pre-arrangement for these productions and a preparation for the business of the meeting, it was obvious that the committee had not acted in concert.

The failure in arrangement, and apparent deficiency in administrative power, to secure order in the time of animated debate, were but the inevitable consequences of a mere nominal constitution.

The Association elected new officers and a new committee of arrangement, and, next summer, will hold its annual meeting in one of the western Counties. Those who know the present officers, are assured that the governmental responsibility is with those who have ability and will, to make the Institution what it ought to be, and, we are sure, what it will be.

Time should not be lost, but, with as little delay as possible, experienced educationists should be invited, and a bill of fare prepared and printed. Three programmes are not needed-one should suffice.

We remember when Dr. Dawson was at the head of our education movement, and the Teachers' Institutes which he held during his visits to the Counties, and the interest thrown into these meetings, as Teachers of experience exhibited their own modes of giving instruction and developed their individual views and convictions on the art of teaching. We remember how Dr. Dawson drew out the opinions of teachers and made their carefully gathered knowledge avail for the good of all present. We now have the impression that some similar exercises would add much to the value of the contemplated convention.

#### SCIENCE EDUCATION ABROAD.

A Lecture by J. W. Dawson, L.L. D., I. R.S., Sc., Principal and Vice-Chancellor of McGill University, Montreal, being the Annual University Lecture of the Session 1870 1.

EVERY one who reads must know that in our time no subject is more extensively agitated and debated than that of the present lecture. In every civilized country it has become a question of first-rate importance, not only for educators but for business men and statesmen, how the largest amount of success can be attained in the practical application of science to the arts of life. Everywhere, as a means to this end, it is felt to be necessary to provide the widest extent of science education for the mass of the people, and the highest perfection of such education for those who are to take leading places as original investigators or as directors of business undertakings.

From the time when I first had the honour of addressing a Canadian audience, until this day, I have not ceased, in season and out of season, to urgo this subject on the attention of the friends of education here, as one of the pressing wants of this country; and within the few past years, feeling that we were falling farther and farther behind other countries, I have made some smell offerty to collect additional information as to the state of special efforts to collect additional information as to the state of science education abroad, and to bring this to bear on the public

mind here, as opportunity offered.

In my recent visit to Great Britain I had this object specially in view; and found it to be one much before the minds of all educated men, and prominent in conversation and discussion whenever education was referred to. The results of recent industrial exhibitions had painfully impressed the minds of Englishmen with their actual and growing inferiority in important arts and manufacturers to better educated nations Great efforts were being made to erect new schools of science and to introduce science teaching more effectually into other institutions. The usual expedient in England in all doubtful and urgent matters of national importance, the appointment of a Royal Commission of Inquiry, had been resorted to, while the Commission already engaged in the improvement of the endowed schools had taken high ground on the question of science education. All this was very interesting to me, and I availed myself fully of the many opportunities which offered to visit schools of practical science, and to learn the views of those most concerned in their management; and who, in the true spirit of the brotherhood of Science, were ready to place all means of information at my disposal. learned I would now desire in some measure to lay before this audience, with practical deductions bearing on our own condition. While, however, most desirous to convey to your minds the impressions made upon my own, I feel that the subject is too vast skeleton, unless I confine myself to notices of a few of those institutions which appear to be most instructive with reference to our solves. I shall therefore, first, shortly define what I understand in this paper by science education, shall then notice a few science schools in England and elsewhere, and shall conclude with some practical applications of the subject.

WHAT IS SCIENCE EDUCATION.
In speaking of science, then, I would restrict your attention to the physical sciences, or those which relate to what we call material things. In this great group of sciences we may recognize three subdivisions, distinguished by the modes in which they are pursued, though shading into each other. (1) Mathematical sciences, or those in which the methods chiefly pursued are those of mathematical reasoning and calculations, as, for instance, astronomy; (2) Experimental sciences, of which chemistry and several departments of natural philosophy may be taken as examples: (3) Observational sciences, such as zoology, botany, and geology. Each of these classes of subjects must be treated according to its own methods; and unless so treated is useless whether as a means of training or for practical application. The learning, for example, of any of the natural sciences, by "getting up" a text book, without actual examples and work, is not of the nature of science education; and much of the undervaluing of science studies as a means of education, on the part of practical teachers, is due to their want of acquaintance with this first truth. Natural history or experimental science taught merely from books, is only an in-different form of verbal training, and it is no wonder that those who know it only in this way should form a very low estimate of its educational value. To be usefully taught, the pupil must be familiar with the actual objects of study, and must understand experimentally the modes of attaining to results with regard to them. He will then receive a real and valuable kind of education, the benefits of which may be summed up as follows:-(1) The student is taught to observe, compare, and reason for himself, and this in a practical manuer, not so easily attainable in other subjects, and tending to give an accuracy of method and quickness of perception and of forming conclusions most valuable in actual life. (2) Much knowledge of a useful and interesting character is acquired; and the student, while learning the uses and properties of common things, may rise to large and enlightened conceptions of the works of God, and the natural laws under which man exists. (3) Men are trained to pursue original investigation and thus to enlarge the houndaries of circles. tigations, and thus to enlarge the boundaries of science. (4) The means are afforded to utilize natural resources and improve arts

such science education, it appears to be the result of experience in all the more advanced countries: (1) That there should be special practical schools to train investigators and practical science workers in the departments most important to the welfare of the community. (2) That science study should form some part of a liberal education. (3) That the elements of some of the natural or physical sciences should be taught in all the common schools. (4) That means should be employed to train competent teachers of science. This being what I understand by science education, with reference to its nature, results and methods, let us glance at some of the efforts put forth on its behalf, more esus glance at some of the efforts put forth on its behalf, more especially in the mother country.

#### THE ROYAL SCHOOL OF MINES.

In London the principal institution for science education, supported directly by the Government, is the Royal School of Mines, Jermyn street, with which is associated the Royal College of Chemistry in Oxford street.

The Royal School of Mines is an outgrowth of the Geological Survey of Great Britain, whose building it shares and whose officers are its chief directors and instructors. This association gives it great advantages, in securing the influence and management of the distinguished head of the Survey, Sir R. I. Murchison, ment of the distinguished head of the Survey, Sir R. I. Murchtson, and the services of such eminent practical geologists and naturalists as Ramsay, Huxley, Etheridge and Smyth, as professors, in giving the students access to large and admirable collections in Geology and an extensive scientific library, and in placing the young men under the immediate superintendence of those who have the best opportunities for opening up to them the paths of usefulness and success. The very atmosphere of such an institution savours of practical science, its ny pliances for work and study are of the most inviving description, and it has several prizes and scholarships for its more descrying students, and gives the title of "associate" to those who pass its final examinations. Notwithstanding these advantages, though it has many occasional or partial students, the number of regular students has been much smaller than could be desired. This may in part be accounted for by its situation in a city not directly interested in mining, and remote from the great manufacturing districts; in counted for by its situation in a city not directly interested in mining, and remote from the great manufacturing districts; in part, perhaps, by the want of appreciation of the advantages of science training on the part of the English public. It is certain, however, that the School of Mines, though its instructing officers are second to none in the world, is inferior to the great science schools of America and the continent of Europe in its academical arganization in the completeness of its course were expecially in organization, in the completeness of its course, more especially in organization of literary and mathematical culture, and in the standard of attainment required for entrance. Were it improved in these respects, and enabled to offer a larger number of direct prizes to students, its usefulness might be greatly increased.

Still, with these limitations, the success of the school has been

great. It has trained a succession of competent men for geological surveys in the United Kingdom and the colonies. Among others, the present head of the Geological Survey of Canada is one of its graduates. It has also sent forth a number of trained men into mines and manufactures, who have been very successful, not make in introducing new inventious and improvements but in only in introducing new inventions and improvements, but in realizing fortunes for themselves; and it is stated that the demand for these men is much greater than the supply. The course of study in the school of mines extends over three years, and in the senior year the students are allowed options, by virtue of which they may devote themselves specially to chemistry, mining or

geology.

The Royal College of Chemistry is a distinct institution, situated in a different part of the town, which is a cause of some inconvenience to the students of the School of Mines, who have to attend its lectures and classes in practical chemistry. It was established originally by a private subscription, but has been adopted by Government. Under the able management of Prof. Frankland, it is a useful institution, and always crowded with pupils. It has, however, accommodation for only 42 practical students, and this by no means of the airy and sumptuous character to be found in the laboratories of the continent of Europe and the United States. Crowded among the shops of a noisy business street, it has no room for extension, and its teachers and students street, it has no room for extension, and the strength of the submit to many inconveniences which might readily be obviated were it removed to a more suitable locality, and provided with a laboratory fitted up with modern improvements. It must with a laboratory fitted up with modern improvements. It must however, be admitted that the utmost possible use has been made of its too limited accommodation.

#### THE DEPARTMENT OF SCIENCE AND ART.

The Royal College of Mines, as well as the Royal College of Science, Dublin, and the Edinburgh Museum of Science and Art, are under the direction of the Government Department of Science and Art; but its largest sphere of operations is in the great South Kensington Museum, and the schools connected with it throughout the country. In its last report these schools and classes are stated at 525 in all, with an aggregate of 24,865 pupils. This represents much science teaching; all, however, of an elementary character, and of a small amount relatively to the great population of Britain and Ireland. Much of the teaching is necessarily done by teachers of a very humble grade of scientific attainment; but the most effectual means are taken to ascertain that it is faithfully done, and to give it opportunities for improvement. The principle With regard to the extent and nature of done, and to give it opportunities for improvement. The principle

adopted is that of giving money aid to teachers, building grants, grants for apparatus, &c, scholarships and exhibitions, medals and prizes to pupils. All of these are awarded on the results of rigid prizes to pupils. All of these are awarded on the results of rigid examination, conducted by papers sent from London and reported on by examiners, among whom are some of the first scientific men in the country. The aids to teachers are at the rate of £2 per annum for each first-class pupil, and £1 for each second-class pupil; and the teacher, in order to receive aid, if not a University graduate, must have obtained at least a second class in the advanced grade of these examinations. Of the aids given to pupils a number are in the form of exhibitions in aid of attendance on higher science schools, and in the case of the higher Government schools the fees are remitted in favor of students taking these schools the fees are remitted in favor of students taking these exhibitions. It would be difficult to imagine a system likely to do more good, as all that is wanted is that it should be further extended and that more thorough means should be adopted for training the teachers.

#### SOUTH RESSINGTON MUSEUM.

The most conspicuous part of the establishment at South Kensington is its museum, embracing a vast collection of objects illu-Indicate the state of industrial products, art and manufactures, and one of the most popular and useful places of instruction by the eye in London. It is proposed to remove to the extensive buildings at South Kensington the vast Natural History collections of the British Museum, and also the collections of the Geological Survey, so as to promote science study as well as that of art. Art educations of the state of the so as to promote science study as well as that of art. Art education on an extensive scale is conducted at South Kensington itself, as well as in a multitude of affiliated art schools. More especially, young persons are trained as teachers, and with reference to practical applications to decorative art of every description. As illustrations of these, I was shown large collections of patterns for wall papers, table cloths, pottery, and coloured and engraved glass. wan papers, table cloths, pottery, and coloured and engraved glass, prepared by the pupils for competition for prizes offered by manufacturors; while in a gallery of the museum, assistants were busy in arranging a vast collection of drawings and paintings sent in from affiliated schools for competition. In the Art training school I saw hundreds of pupils engaged in all kinds of work from the elements of drawing to studies in painting and modelling from life. In addition to the study in the schools, the students, of whom there are between eacht and pipe hundred have access to whom there are between eight and nine hundred, have access to the Galleries of Art in the Museum, and to an Art Library of 25,000 volumes and a collection of 55,000 engravings and photographs. Last year 107 schools were conducted under the "Department" with 20,000 papils; and in addition to these, elementary drawing was taught in 1,094 schools to 120,928 children. Though art is distinct from science, I think it proper, when speaking of South Kensington, to refer to its work in art as well as in science. Not only is science the handmaid of art, but art is also the handmaid of science, and both must flourish or decay together. More especially the study of art in its application to the wants of ordinary life, cannot fail to be auxiliary to the advancement of science. It is a matter of profound regret that the Boards of Art organized in this country more than ten years ago, have been permitted to languish, and have not been enabled to establish here institutes on the plan of those of the Department of Science and Art in England.

#### THE LONDON UNIVERSITY.

University College, London, has no organized science school, but it trains men for the Bachelor of Science examination of the London University. This is a general science examination, im-London University. This is a general science examination, implying the training necessary for martriculation, and subsequent studies in Physics, Chemistry, Animal Physiology, Geology, Logic, and Moral Philosophy. Bachelors of Science of two years standing can go up for an examination for the Degree of Doctor of Science. These science degrees of the University of London do not lead directly to practical work, and this is an important defect in the system, but they are, no doubt, very important as stimuli to the general preparatory training required by every man of science. The Bachelor of Science degree as offered by the University of London, has also undoubtedly tended to raise science to its proper status in connection with the higher education, but it is not as yet largely taken. At the graduations in May last, at to its proper status in connection with the higher education, but it is not as yet largely taken. At the graduations in May last, at which I was present, there were only eleven Bachelors in Science and soventy Bachelors in Arts. This arises in part from the want of prestige and antiquity in the degree itself, and in part from its having to compete with the honours in science which may be taken in courses in arts, and with the special science schools.

The Birbeck laboratory of University College accommodates 24 practical students; and I was pleased with the ingenious arrangement of its theatre, by means of which 98 students can be em-

ment of its theatre, by means of which 98 students can be employed simultaneously in making experiments with tests under the direction of Professor Williamson and his assistants. This is only one among many indications which I observed of the tendency to give to examinations and instructions in science a practical character, an evidence that its true nature is being more and more appreciated.

celebrated throughout the world as the theatre of the labours of Dayy, Farady and Tyndall, while in London itself it is known and valued as an agreeable and popular exponent of science by means of its lectures and discourses. The Royal Institution has a good building in Albemarle street, containing its theatre, laboratories, library, and reading-room. Its function is two-fold. First, it sustains as its professors eminent scientific was and and First, it sustains as its professors eminent scientific men, and provides them with the means for prosecuting original research; secondly, it provides, by its afternoon and evening lectures, the means of presenting to the more refined and educated classes, in-formation as to the latest results of scientific discovery, from the lips of the actual discoverers themselves. Its lecture-room is always filled with a cultivated and attentive audience, who have

always filled with a cultivated and attentive audience, who have the advantage of learning orally and at first hand what others must gather from reading, or from secondary sources.

The Royal Institution thus occupies a middle place between the general public and those Scientific Societies, like the Royal, Geological and Linnean, whose objects are strictly scientific or special, and whose meetings are consequently almost entirely composed of scientific men. At the same time it promotes original research in a manner peculiar to itself, and in the highest degree successful. It analysis the learner in the same time is the second of scientific men. in a manner peculiar to fisch, and in the figures degree successful. It undoubtedly exerts a most important influence in keeping those who move in the higher strata of society in London abreast of the science of the day, and thus in procuring moral as well as material support for scientific researches; more especially for those which, not being of direct educational or practical utility, are liable to be neglected even by the more intelligent portion of a company to present in the accumulation of scellar or in of a community, engrossed in the accumulation of wealth or in the still more laborious pursuit of spending it.

#### OWEN'S COLLEGE, MANCHESTER.

It. he great manufacturing community of Manchester, academ ical education rears its head in an institution of no mean repute in the matter of science education. Owens College is, like our own McGill, based on the liberality of a wealthy merchant, whose own McGill, based on the liberality of a wealthy merchant, whose name it bears, supplemented by numerous additional beasfactions. Among these I find a sum of £10,000, subscribed by 118 merchants and others, for a chemical laboratory and a library; a sum of £9,472 subscribed by the principal engineers of Manchester and the neighboring towns, for the foundation of a chair of civil and mechanical engineering, and a fund of £200 per annum to augment the endowment of the professorship of chemistry. These noble benefactions remind us of the liberality of some of our Montreal merchants and professional men, and should act as a stimulus to others. stimulus to others.

I am indebted to Principal Greenwood and Professor Williamson for enabling me to learn the nature and results of the science teaching at Owens College, which in many essential respects more nearly resembles one of our Canadian colleges than any other institution which I saw in England. The department of general stitution which I saw in Engania. The department of Sources literature and science, or, as we should say, the course in arts, extends over three years, and, like our own, includes a certain amount of modern languages, and physical, natural, and mental science. The department of theoretical and applied science, or science course proper, also extends over three years. The first is science course proper, also extends over three years. The first is identical with the first in arts. The second and third are occupied entirely with science subjects, along with the French or German language. The students in this department are prepared for the bachelor of science examination at London. This course is said to be suited to prepare "for the higher departments of manufacturing art, and for pursuits and professions purely scientific." It is also said to be "adapted for such as are hereafter to be engaged in commercial pursuits"—a remarkable testimony to the ideas of education on the part of business men at Manchester, when is this respect come to many party than any others in Fig. who in this respect come up more nearly than any others in England and her colonies, to the standard of the New England cities. land and her colonies, to the standard of the New England cities. The Principal informed me that there were last session 100 students taking this science course. The third department in Owens College is that of civil and mechanical engineering, in which students are prepared for the examinations in engineering in the Indian Public Works Department, and also for entering on the higher branches of the engineering profession. The course the higher branches of the engineering profession. The course extends over three years. It had only twenty students last year.

Another and most interesting feature of Owens College, suited to its position in a great manufacturing town, is the provision made for evening classes. These include the subjects of the general course, and also a pharmacentical course intended to prepare chemists and druggists for the examinations under the Pharmacy Act. Most of the students in these classes are what we would call partial students; but some study for the Degree of B. A. of London University. The intention of the college is to accommo-London University. The intention of the college is to accommodate those whose business engagements prevent them from attending lectures in the day time; and the number of students last year was no less than 400. This is a remarkable indication of the avidity for learning on the part of the young business men of Manchester, who enter on this somewhat severe course of study as an employment for their evenings, and after the toils of the day. It is further to be considered that many of these young THE ROYAL INSTITUTION.

It would be wrong to leave Lordon without referring to the remarkable and unique establishment known as the Royal Institution, founded in 1799, at the suggestion of Count Rumford, and which, I was informed, had been successful, though I did not note the number of students. The authorities of the college have under consideration the establishment of a regular academical course for women, which will be largely of a scientific character.

Owens College has its class rooms at present in an old building

Owens College has its class 100ms at present in an old building adapted to its use; but an elegant new building is now in process of erection at a cost of £90,000, and a sum of £130,000 is said to have been raised as a building fund. The foundation stone of this building was publicly laid in September last. It is to be observed that Mr. Owens wisely prohibited any portion of his endowment fund being expended in buildings, and that the Government of Great Britain has given no aid to Owens College, so that this large sum is a product of private munificence, chiefly in the town of Manchester. in the town of Manchester.

#### BUIENCE TEACHING AT CARBUIDGE.

The two great English Universities of Oxford and Cambridge are obviously not content to lie under the aspersion some time ago cast on them by an eminent scientist that their "atmosphere" is unfavorable to scientific study. Both are making rapid strides

in this direction.
At Cambridge, under the kind guidance of Prof. Stokes, himself one of the most eminent of living physicists, and of the patriar-chal Sedgwick, and his able assistant Seeley, I saw the improve-ments which in late years have been made in the means of study in natural and physical science, and which tend, with other in natural and physical science, and which tend, with other changes, to give greater effect to the regulations in favour of the natural science tripos. Still more recent movements in this direction are the appointment of a university professor of pure physiology, and the movement in aid of a university professorship and demonstratorship of experimental physics, towards the buildings and apparatus necessary for which, the Chancellor, the Duke of Devonshire, has offered a contribution of £6,30-9.

#### WHAT OXFORD IS DOING.

Oxford has, however, taken the lead of its sister university in this matter, and I shall therefore notice more in detail what I had the pleasure of seeing there in the way of provision for practical science teaching.

The new museum, now of world-wide reputation, is not merely a museum in the more modern sense of the term, but a series of scientific laboratories and class rooms, attached to a magnificent library and museum. The museum proper had been largely increased and improved in its collections since my last visit in 1865. and its great central glass-roofed court, more than 100 feet square, with its surrounding galleries, is now well-filled with specimens in Geology and Zoology. On the south and west sides, the museum is encompassed with class rooms and laboratories in geology, chemistry, and physical science. On the north side are the laboratories and class rooms in physiology. Prof. Phillips was absent, owing to an attack of illness, and in his department I saw only assistants engaged in laboriously piecing together the huge bones of the Cetiosaurus, a gigantic reptile with thigh bones more than five feet in length, of which a magnificent skeleton has recently been discovered in a quarry not far from Oxford. I had, however, the pleasure of seeing the rof. Brodie, and of examining the admirable arrangements of Prof. Rolleston for practical work in physiology. Among other things which I saw in the physiological laboratory, were excellent dissections of mullusks and worms made by students as a part of their examinations in the honour course of Natural science.

Though the museum contains rooms for experimental physics, the University has greatly enlarged its means of instruction in this department, by the erection in the vicinity of the museum of a physical laboratory, which I believe will cost about £40,000, and which, in the perfection and completeness of its arrangements, will surpass all similar workshops of science, not only in England, but in the world. Prof. Clinton, who himself showed to the building and evaluated its then the content of the world. me the building, and explained its plan, has endeavored to make this laboratory in itself a model of practical science, considered as the art of doing everything in the best way, by applying in the most perfect manner every known improvement and many original inventions of his own, to secure convenience and accuracy of working. The building has a central hall for apparatus, and for certain experiments requiring a large space; a class room, which is a model of acoustic perfection and mechanical arrangement: and a number of work-rooms, in which all the most delicate kinds of operations in weighing and measuring can be carried on with the best apparatus and with every precaution against error. This laboratory was to be opered in the present autumn, and I was informed by Prof. Clinton that he expected to begin with about 30 practical students. The object of the laboratory is twoabout 30 practical students. The object of the laboratory is two-fold—(1) to train observers and experimentors more thoroughly than heretofore: (2) to undertake original physical researches with more perfect appliances than those now available.

The Oxford new Museum, with the neighboring Physical Laboratory, thus constitutes in itself a great educational institution in physical science, managed by some of the ablest a statistics and original investigators of the days and providing for attailing to a statistics.

and original investigators of the day, and providing for studies in

scientific department of the Radeliffe Library. These appliances are as yet large in comparison with the number of students who use them; but the number of students is increasing, and this apparently not at the expense of the literary courses of study. It is to be observed, moreover, that the aim of the Oxford Science school is high. Its object is not so much to train practical workers in science as applied to the arts, as to give the education necessary to enable those who receive it to take their places as original investigators in the advancement of theoretical science, and in connection with this to bring out the true value of physical science as a means of securing the highest mental culture. Viewed with reference to those ends, Oxford is undoubtedly an excellent Science school; and a University which offers its highest honours, in courses, in which practical chemistry and physics, and dissections of invertebrate animals, constitute important parts, cannot be regarded as unfavorable to the cultivation of science. It must be admitted however that these improvements have been effected only after severe contests between the advocates of modern science and the conservative element in the University, contests in which my valued friend, Dr. Acland, well known to many of us here, has borne an influential part.

#### MOVEMENT IN LDINBURGH.

Edinburgh has as yet no organized Science school, and has undoubtedly been falling behind the English schools in its reputation for training in natural science. This is, however, a relative rather than an actual decadence, and there is a very strong desire on the part of many of the friends of the University to restore its ancient reputation in this respect. In evidence of this we have the recent endowment of the Baxter Chair of Engineering, and the still more recent offer of Sir Roderick I. Murchison to give £6,000 as the endowment of a Chair of Geology, which I am informed the Government is likely to supplement with a like sum. The Department of Science and Art has also attached to the University a museum on the plan of that of South Kensington, under Prof. Archer; but no lectures are delivered in connection under Prof. Archer; but no lectures are delivered in connection with it. No Institution in Great Britain has a better field for science education than Edinburgh, and it possesses many excellent teachers, but their action is to some extent paralyzed by want of facility for mutual co-operation, and by want of some professor-ships necessary to complete the course of study. In the mean-time, there are excellent practical classes in chemistry, experimental physics and botany, and there is an academical course for a science degree. In this course the candidate is required to have the degree of B. A., M. A., M. B., or M. D., or to hold certificates of having passed the examinations in two of the departments of the University course, or to have matriculated in the University of Otherwise he must pass a preliminary examination. He must then pass a general examination in mathematics, physics, chemistry, zoology, and botany; but may omit this examination if an M. A. who has taken honours in natural science, or an M.B. or M.D. who has taken honours in natural history, and has passed the examinations in physics, higher mathematics, and logic. There is then a anal examination, in which the student may select one of three branches in which to pass, viz. : (1) Mathematical one of three branches in which to pass, viz.: (1) Mathematical science; (2) physical and experimental science: (3) natural science. On passing this examination he is entitled to the Degree of Bachelor of Science, and at the end of twelve months may come up for the degree of Doctor of Science, in the examination for which he must show profound knowledge of a special scientific subject. The number of candidates for these degrees is not as yet large, but is increasing. They might obviously be rendered much poor valuable and attractive by connection, with special science. more valuable and attractive by connection with special science courses, leading to application to the arts or to definite branches f original rescarch.

It may be well to mention here that the Principal of Edinburgh University, in his inaugural address, has suggested the omission of Greek from the University course for M. A., to make room for science culture, and that the chairman of the Endowed Schools Commission has, as already mentioned, put this idea in a practical shape before the English Universities, in an official letter to the Vice-Chancellors, in which he intimates the design of the Commissioners to establish schools in which Latin alone shall be taught, in addition to science and modern languages and literature, and invites them to open their examinations for degrees and honours to the pupils of such schools. While it is to be doubted whether any such change is required here, where classics have not been so exclusively insisted on in the schools as in England, the arguments adduced by Lord Lyttleton in his circular are well deserving of study, as indicating the strong feeling among parents and educated persons in England that science education for their children is a matter of absolute necessity, and that, if it cannot otherwise be obtained, some portion even of their cherished lite-rary culture must be sacrified to a want, on the supply of which even national existence may depend.

#### SCIENCE TEACHING IN THE UNITED STATES.

We might now turn to the efforts which have been made in the United States, where, owing to the more general diffusion of elemenexperimental physics, chemistry, mineralogy, geology, physical physics, chemistry, mineralogy, geology, physical physics, chemistry, mineralogy, geology, physical ph Schools, the Boston Institute of Technology, and the Cornell University, challenge comparison with any in the world. I shall, however, refer to only one of these, which I had the pleasure of visiting rather more than a year ago, and which, in my judgment, has been one of the most successful.

#### SHEFFIELD SCIENTIFIC SCHOOL.

The Sheffield Scientific School, is a modern outgrowth of the old University of Yale College; and originated in 1817 in the organization of the "Department of Philosophy and Arts," under Professors Silliman and Norton, representing respectively the subjects of Applied Chemistry and Agriculture. The scheme seems to have been devised by the clder Silliman, and to have had its birth in his private efforts in previous years to give practical instruction to special students. This department was maintained with moderate success for several years; but at length in 1890 Mr. Sheffield, a wealthy citizen of New Haven, came forward to its aid with a handsome gift of a building and apparatus valued at over \$50,000 and a fund of \$50,000 more to endow Professorships of Engineering, Metallurgy, and Chemistry. This enlightened benefaction at once placed the school on a respectable footing, and in 1803 it was further enlarged by the application to its use of the share of the State of Connecticut in the large grants of land made by Congress in that year for purposes of scientific education, grants which have borne similar good fruit in many other States. The Sheffield School will also be a larger sharer in the benefits which the University will derive from the great Museum founded by Mr. Penbody, and endowed by him with the sum of \$150,000. The present extremely valuable collections of Yale College are stored in rooms of quite inadequate dimensions, and are being rapidly augmented and improved, Prof. Marsh and Prof. Verrill alone have vast stores of fossils, corals and other specimens in basements and cellars; and when the whole shall be arranged in Mr. Penbody's Museum, Yale College will be inferior to few Academic institutions in the world in regard to its facilities for teaching the science of nature through the eye. A special collection in the Sheffield School, very valuable and well worthy of study, is that of economic geology. It is admirably arranged, and gives at one view an idea of nearly all the mineral resources of th

The building of the Sheffield School is well suited to its purpose, though it is an old medical school adapted to its present use; and the scope of the institution is wide, including six distinct courses, any of which may be followed by the student. These are; 1st Chemistry and Mineralogy; 2nd, Engineering and Mechanics; 2rd, Mining and Metallurgy; 4th, Agriculture; 5th, Natural History and Geology; 6th. A Select Scientific and Literary Course. The class rooms and luboratories struck me as remarkably ingenious and neat in all their arrangements, and combining in a great degree all possible conveniences, while the uncomfortable arrangements too often seen in academic rooms had evidently here been replaced by the exercise of some engineering and mechanical skill and contrivance; and by a combination of lecture room and cabinet the means of illustration had been rendered extremely accessible. In token that the Sheffield School is not altogether a school of mines looking down into the bowels of the earth, its liberal founder has presented it with an Equatorial Telescope, made by Clark with an object glass having an aperture of sine inches. It is placed in a tower constructed for it; and with a meridian circle and other instruments, enables students to learn all the work of a regular observatory, as well as the operations of astronomical geodesy. Any one interested in the training of the young men of Canada can scarcely avoid a feeling of envy in visiting such an institution as this, furnished with so many facilities for enabling the active mind of youth to grasp all that is of practical utility or provocative of high and noble thought in the heaven above and in the earth beneath. At this moment a Canadian Sheffield, judiciously aiding any University having an adequate and permanent basis, would do more to promote the trade and manufactures of this country and its scientific reputation, than can be done by any other agency.

The faculty of the Sheffield School includes twenty-three names, and its roll of students numbers one hundred and forty. It is scarcely necessary to say that several of the professors at Yale are active and successful original workers, and that the place is not only an effective scientific school, sending out each year a large corps of trained men into the higher practical pursuits connected with science, but also an important centre of discovery and original investigation, further materials for which are being constantly accumulated. More especially in geology, mineralogy, paleontology, zoology, and chemistry, are such men as Dana, Silliman, Marsh, Brush, and Verrill adding to the stock of knowledge for the whole world, as well as training their students. And this is one of the results in all cases of a well appointed and efficient school of science.

An additional endowment of about \$50,000 has 'n collected during the past year for this excellent school, which in its provisions for scientific, in connection with academical education, is second to none in the possession of the English race.

One most important feature of the Sheffield School is that it

One most important feature of the Sheffield School is that it to physical research, but above all by the scientific method concombines all that is valuable in a science degree with the special spicuous in all their arrangements. What does the word Science, training of a practical science course. Students who have the necessary literary acquirements may thus obtain the degrees of Bachelor and Doctor of Philosophy along with their special be the constitution of a government, the organization of an army

scientific training as civil or mining engineers, assayers, &c., while others can secure the practical advantages without the degree. In a recent article in the Yale College Courant, Prof. Dana explains the details of this system and its advantages and conomies. He maintains that "the modification in American Colleges, which is demanded by the vast development of the sciences of nature within the past century, and also by the contemporary progress of linguistic and other sciences, is a complished by the Yalo scheme through a method which does not sacrifice in any degree classical education, and which at the same time combines thorough literary culture with the widest range and highest development of scientific education."

#### GERMANY AND SWITZERLAND.

But though much is being done in England and the United States, science and technical education are carried to a still higher point in Germany and in Switzerland, which perhaps excel all other countries in this respect. In the former country, while every one is educated, general education is made to lead to technical education in a great variety of schools, suited to persons in all conditions of life, and culminating in the great technical Universities, a kind of institution as yet unknown in the English-speaking world, unless Cornell University can be regarded as a step in this direction. In Germany there are now no less than six technical Universities, and a large number of technical colleges or higher schools to train students for these Universities, or for directly entering into employment in arts and manufactures.

#### TECHNICAL UNIVERSITIES.

Mr. Scott Russell, in his work on Technical Education, takes the Polytechnicon, or Technical University of Switzerland, as an example of the most perfect organization of this kind; and I may abridge from his notes the following facts as to its scope and organization. Its courses of study are arranged under 145 subjects, divided among 31 professors, 10 assistant professors, and 16 private teachers and lecturers. They consist entirely of science, applications of science to the arts, and modern languages, literature and history. Among the few subjects not included under these heads are the Swiss federal constitution and rights, and the Biblical History of Creation, a subject scarcely thought of in the English world, even in the education of the theological students. The students are either regular or "free," the latter taking selected courses; but of 762 students only 173 are free or occasional. In the regular programme of study the 145 subjects above referred to are divided into groups: (1) Preparatory subjects above referred to are divided into groups: (1) Preparatory subjects. above referred to are divided into groups: (1) Freparatory subjects necessary for those who come imperfectly prepared; (2) subjects relating to architecture and building; (3) civil engineering; (1) mechanical engineering; (5) practical chemistry; (6) agriculture and forestry; (7) subjects necessary for scientific workers, professors and teachers; (8) a general course of philosophy, statesmanship, literature, art, and political economy. In aid of these courses of study the University possesses an astronomical elegations are appeared for teaching observators, are also likely and appeared to the course of the second and the second are described as a changing observators. observatory, arranged for teaching observers; a chemical and mechanical laboratory, for experiments in new inventions, &c.; a chemical laboratory, for ordinary practical teaching, which Mr. Scott Russell calls a palace of science in comparison with similar places in England; collections of drawings, models and machines; a collection of architectural models and sculpture; collections in a concern of architectural models and schipture, concerns a zoology, geology, and antiquities; and a botanical garden. To the foundation of the University the Federal Government of Switzerland contributed £20,000, and the cauton of Zurich £130,-000. Its annual expense is very moderate, being only £13,459 annually proceed numbers of educated young men who are prepared to advance every branch of art by the applications of science, who are distancing England in so many manufactures, who are now contributing so largely to the wonderful success. and who are now contributing so largely to the wonderful success of the German armies. It is well for us to remember that the Technical University of Zurich ministers to the wants of a population of only two millions and a half, or considerably less than that of Canada, d that even the little state of Wurtemberg, with a populate of less than two millions, has its Technical University at Stuttgardt, with no fewer than 57 professors and teachers. It is further to be observed that these Universities are but the higher pinnacles of a complete system of technical education, descending from them to the humblest schools of practical science, for the children of labourers. It is scarcely necessary to add that they do not detract from or interfere with the great general Universities of Germany, in which scholarship and philosophy have reached so high a pitch of development.

A recent English writer thus eulogizes the Prussian system:—
"The Prussians, whatever their other qualities, are emphatically a scientific people, and to that predominating characteristic first and foremost are their recent military triumphs due. We do not mean that because they are great chemists, astronomers, and physicists, therefore are they necessarily great soldiers; so narrow a proposition would hardly be tenable. What we mean is that the spirit of science possesses the entire nation, and shows itself, not only by the encouragement given throughout Germany to physical research, but above all by the scientific method conspicuous in all their arrangements. What does the word Science, used in its wider sense, imply? Simply the employment of means adequate to the attainment of a desired end. Whether that end at the constitution of a government the organization of an army

or navy, the spread of learning, or the repression of crime, if the means adopted have attained the object, then science has been at work. The method is the same, to whatever purpose applied. The same method is necessary to raise, organize, and equip a battalion, as to perform a chemical experiment. It is this great truth that the Germans, above all other nations, if not alone amongst nations, have thoroughly realized and applied. In all the vast combinations and enterprises with which they have astounded the world, no one has been able to point to a single deficiency in any one essential element. Every post has been adequately filled and every want provided for, from the monarch, the statesman, and the strategist, to the lowest grade in the army. This is the method of science, literally the same method which teaches the chemist to prepare his retort, his furnace, and his re-agents, before commencing his experiment."

#### WANT OF SCIENCE TEACHING IN CANADA.

Let us now turn to our own country, and study its means and appliances for the pursuit of practical science. The task is an easy one, for with the exception of two or three small and poorly supported agricultural schools, this Dominion does not possess a school of practical science. With mining resources second to those of no country in the world, we have not a school where a young Cauadian can thoroughly learn mining or metallurgy; and, as a consequence, our mines are undeveloped or go to waste under ruinous and unskilful experiments. With immense public works, and constant surveys of new territories, we have not a school fitted to train a competent civil engineer or surveyor. Attempting a great variety of manufactures, we have not schools wherein young men and young women can learn mechanical engineering, practical chemistry, or the art of design, or we are very feebly beginning such schools. We have scarcely begun to train scientifications. tific agriculturists or agricultural analysts. Our means for giving the necessary education to originally scientific workers in giving the necessary education to originally scientific workers in any department, or of training teachers of science are very defective. Hitherto we have been obliged to limit ourselves to the provision of general academical courses of study, and of the schools necessary for training men in medicine, law and theology. Other avenues of higher professional life are, to a great extent, shut against our young men, while we are importing from abroad the second-rate men of other countries to do work which our own men, if trained here, could do better. Let us enquire then what we are doing in aid of science education, more especially in this commercial and manufacturing metropolis of Canada, which we may surely venture to regard as at least a Canadian Manchester, and something more important than a Canadian Zurich. and something more important than a Canadian Zurich.

#### WHAT IS BEING DONE IN MONTREAL,

(1) We have at least advanced so far as to regard physical inner as a necessary part of a liberal education. In this Uniscience as a necessary part of a liberal education. versity some part of natural or physical science is studied in each year of the College course, and we provide for honour studies in these subjects, which are at least sufficient to enable any one who these subjects, which are at least sufficient to enable any one who has faithfully pursued them to enter on original research in some department of the natural productions and resources of the country, and to receive some considerable portion of the training which such studies can give. We have provided in our apparatus, museum, and observatory, the means of obtaining a practical acquaintance with several important departments of science, Butin a general academical course of study too many other subjects require attention to allow science to take a leading place; and tis not the proper course of educational reform to endeavour intrude science in the place of other subjects at least quite as necessary for general culture. We require to add to our general course of instruction special courses of practical science, presided over by their proper professors, and attended by their own technical students.

nical students.

(2) The lower departments of science education are to some small extent provided for by the teaching of elementary science in the schools. This, imperfect though it is, is of value, and I attribute to the partial awakening of the thirst for scientific knowledge by the small amount of science teaching in the ordiry schools in the United States and in this country, much of that quickness of apprehension and ready adaptation to new conditions and inventive ingenuity which we find in the near educated tions, and inventive ingenuity which we find in the more educated portions of the common people. The Provincial Board of Arts and Manufactures also deserves credit for the attempts which it has made, under many discouragements, to provide science and art classes for the children of artisans. Proposals are also before the Local Legislature for Schools of Agriculture. The Local Government has procured reports on this subject from the Principals of the Norme Schools, and has also sent a special agent to study and report on the Agricultural Schools of France and Belgium, which are well worthy of imitation. A still more important suggestion has been made to the Dominion Government by the Director of the Geological Survey for the erection of a School of Mining.

These arrangements and proposals are valuable as far as they extend; but they fall short of providing the full measure of the higher science education, whether with reference to the training of original investigators, or of the various kinds of professional men required for the development of the resources of the country. Let us enquire how this wider and higher science culture can be secured.

SUGGESTIONS FOR HIGHER SCIENCE TEACHING.

The higher technical and science education may be provided for The higher technical and science education may no provided for in either of the following ways. (1) Wo may have special schools of mining, engineering, &c., each pursuing its own course, and not connected with any general institution. The objections to this are, that it is not sonomical, that it cannot provide the necessary literary and general training, that the pupils of such schools are very likely to be of various degrees of excellence and very partially trained. Such objections are applicable to schools like the Royal School of Mines in London, and I think they would prove fittal to the influence of such schools in this country. (2) prove futal to the influence of such schools in this country. We might imitate the German technical universities. This would be the most thorough course possible; and were the means forth-coming, I cannot conceive of any greater educational Lenefit to this country than the institution of such an University. But it may be long before we shall find in our Legislatures, general and local, the wisdom and patriotism which actuated those of Switzerland in establishing the Zurich School; and we may have to wait quite as long for the appearance of a Canadian Cornell to give and to stimulate legislative liberality by his giving. (3) The last, and, it appears to me, the only practical course at present, is to ask for endowment similar to those of Lawrence and present, is to ask for endowment similar to those of Lawrence and Sheffield, and thus to establish special courses of Science in connection with academical institutions, on the plan so well carried out in Owens College, Manchester, and in the Sheffield School of Yale. This has proved the course most successful in the United States and in the Mother Country, and I have no doubt will prove so here. It is to be observed in this connection that I would not propose merely the institution of a Science degree. We have in this University the means to do this now, but I doubt its expediency, more especially as our honor course in Mathematical and Natural Science is conjugatent to that for such a degree and somediency, more especially as our honor course in Mathematical and Natural Science is equivalent to that for such a degree and something more, and can be as readily pursued. Nor would I follow the advice above referred to as given by the Principal of Edinburgh University and the Chairman of the Endowed Schools Commission, to curtail the classical part of the ordinary course in favor of science studies. Such an arrangement would, I have little doubt, injure the literary part of the academical course more than it would be offer science. I would prefer a require and more than it would benefit science. I would prefer a regular and definite science school, with a course extending over three or four years—the first year to be identical with or similar to that of the ordinary course, or an equivalent examination to be exacted, at least, in modern literature and science; and the remaining years to be occupied with mathematical, physical and natural science, and the modern languages, branching in the closing two years into special studies leading to particular scientific professions. The staff and appliances of such an institution would depend on the extent of its range; and this, to ensure success, should not be small.

In this University large provision has been made in apparatus, collections and teaching power, for the foundation of a good science school; but to enable us to undertake the task effectually would require, in addition to our present means:

1. The separation of our mathematical and physical chairs, or the employment of an assistant professor.

2. The division of our natural science chair into two, or the appointment of an assistant professor.

3. The endowment of a chair of civil engineering and survey-

ing.
4. Professors, lecturers, or tutors in mining, assaying and agricultural metallurgy, practical chemistry, agriculture, and agricultural chemistry, and mechanical drawing.—Some of these departments might be taken up by persons otherwise employed, and not depending for their whole support on the University.

5. Some improvement of and additions to our present appara-

tue, and the addition of collections of models, machines, and ob-

jects relating to the arts.

This might involve an additional annual expenditure of say 83,000, a very trifling sum in comparison with the cost of similar institutions elsewhere. With this, and the fees of students, we might here establish an efficient School of Practical Science and Technology for the Dominion of Canada, which would at once raise the character and reputation of this city throughout the world, and confer incalculable benefits on education and arts of life. Such an Institute is wanted to crown the educational fabric reared here by the liberality of Montreal merchants, with its highest success and the full measure of its utility. I would go further than this, and hold forth the hope of the full realization of the object in view, if an annual revenue or even half the sum above mentioned could be secured at once by private endowment. We could begin on an economical scale, and with the more important subjects only, and could, surely, with some reason expect the Government of the country to supplement such a private endowment with a like sum.

It may be asked, would students be forthcoming? I may with confidence answer the question in the affirmative. From the applications made to me on the part of young men for whom I can do little or nothing, I believe that one central well-appointed technical university in this Dominion, would be well sustained, in so far as the number of students is concerned; and that the extension of population, of mines, manufactures, railroads and other works, would afford an ample outlet for all the men it could train,

while the professional work of such men would itself tend to increase the demand.

It is certain, however, that if the Government of this country could be induced to sustain a system of elementary technical schools similar to those of the Department of Science and Art in England, or similar to those of Prussia, a double benefit would be secured, in so far as the higher science education is concerned, in finding occupation as teachers of science for some of the graduates, and in giving the necessary preliminary training to students. At the same time the effects of such schools would be of incalculable importance to the working classes of this country. Local benefactors might do something for such schools; but for a proper system the Legislature must intervene, and it can secure the end only by payment for results on the English system, under proper arrangements for examination and inspection.

#### CONCLUSION.

In conclusion, I may remind some of my audience and inform others, that the views advanced in this lecture, and which are now sweeping on in a resistless tide in every civilized country, are not new with me. When, in 1855, I entered with much diffidence on the arduous and then not very hopeful office which I now have the honor to occupy, I held views on this subject as advanced as those which I hold now, and saw quite as clearly as at this moment, the improvement and extension of science education to be the greatest educational movement of our time. I had then studied the reports of the University Commissioners in England, and had read the admirable exposure of the evils of the existing systems made by Sir Charles Lyell. I was familiar with the details of the Prussian system. I had recently been engaged, with several leading educationists, under the presidency of Sir Edmund Head, in the organization of a scheme for the reform of the University of New Brunswick. I had just returned from conference with leading educational and scientific men in England and the United States. I was strongly impressed with the necessity of science education in this country, zealous for its introduction here, and hopeful that, if any kind of education would commend itself to the good sense of a progressive, commercial community, this would.

Confessing in my inaugural address that I came among you "in the hope of promoting the study of the subjects to which I had devoted myself, and at the same time advancing the cause of education," I maintained that the spirit now abroad with regard to University reform "had for its object to make the carefully elaborated learning of all the great academical centres become more fully than it has yet been the principal moving power in the progress of practical science, of useful art and of popular education," and I specially indicated the institution of schools of civil and mining engineering and of scientific agriculture, as enterprises which should be at once entered upon.

When I look back on the hopes and struggles of those carlier years, though I entertain a feeling of profound thankfulness to God for the measure of success and prosperity which has attended this University, and though I am most grateful to its many benefactors, I cannot forget the disappointment of my own hopes. Much has been done for general education, and McGill College has grown to be a comparatively great and prosperous institution. But all that I have done toward this any one could have done. The one thing that I could have done, for which I was willing to sacrifice all that I could have gained as an original worker in Geology, and which would have been of more real importance, not only to Montreal, but to all this great country from Red River to Newfoundland, than all the rest, has not been done. I confess I often almost sink under the despairing feeling that it will not be done while I live; and that I may never have the opportunity of doing for this community the only great service that I believe myself competent to confer upon it.

Yet I know that much good preliminary work has been done, that material has been accumulated and tastes for science created; and I am reluctant to abandon the lope that I may yet see in Montreal a thoroughly equipped Institution, in which any young man, with the requisite ability and preliminary education, may learn the scientific facts and principles, and receive the training in scientific methods, necessary to qualify him for mining, metallurgy, assaying and engineering, agriculture, chemical manufactures, or other applications of science to art. Until this can be realized, I shall feel that the work of my life has been only very partially and imperfectly successful; and I shall know that this city has not taken the means to prepare itself fully for that greatness which its position and advantages mark out for it, but which it cannot attain, except as the educated metropolis of an educated country—educated not merely in general learning and literature, but in that science which is power, because it wields the might of those forces which are the material expressions of the power of the Almighty Worker.

EXPERIMENTS have been made at the Hotel-Dieu Hospital, Paris, of an electrical heating apparatus, the trial of which has been successful that it is proposed to warm all the other hospitals of Paris with it, instead of coal.

PRONUNCIATION OF THE LATIN AND GREEK.

MERE is at least a hopeful prospect of a reformation in the school pronunciation of Latin and Greek. For more than a century and a half now, most Englishmen "have applied to the Latin tongue the principles which regulate the pronunciation of their own." Why the same principles (') have not been applied as fully to the Greek language; why they have not been applied at all in the case of the Hebrow and other ancient tongues; why they might not almost as well be resorted to in the case of Italian and French, are questions which it is useless to ask. Let one pronounce five lines of French as if it were English, or five lines of English as French, and he will see the appropriateness of applying to one language the orthoepic and accentual rules of another.

Latin used to be a possible means of intercourse between scholars who were mutually ignorant of each other's native tongue. But now an American, however proficient in the language of Cicero, is unable to understand, or make himself understo. by, a German or Frenchman, if Latin is the medium of conversation. It was not always thus with the English-speaking people, though the corruption dates its beginnings back of Milton. It will be remombered that no advises a "distinct and clear pronunciation, as near as possible to the Italian, especially in the vowels." "To smatter Latin with an English tongue," he says, "is as ill a hearing as Law-French." Phillips, who taught Latin to princes in the middle of the last century, complains of their calling amo, emo; and imo, aimo; but adds that "many gentlemen in England still speak Latin like men, ore rotundo." The correct pronunciation of the Latin vowels was taught in Winchester College until about 1750 when they concluded it was best to go wrong with the rest, of the natim. Ainsworth, the Latin lexicographer, says in a preface, that "foreigners hold us little better than barbarians in many parts of pronunciation." He finds especial fault with the prevalent neglect of the quantity of vowels, and the "depraved sound" of C and G before e, i, etc. American school editions of his work, however, suppress everything which is says on these matters. This suppression or misrepresentation of the views of eminent scholars upon this point is common to nearly all cis atlantic editions of European grammars and dictionaries. They are, almost without exception, "doctored" to suit this latitude, and the original truth is not in them.

Our readers will remember that the learned committee of the Philological Convention, which met at Poughkeepsie in the summer of 1869, recommended the use of the so-called continental sounds of the vowels in Greek and Latin. The men who stand behind this sensible recommendation are among the foremost of American linguists. And now we are rejoiced to see their advice reinforced by that of Harvard University, which favors the use of the following sounds in Latin: a as in father, e like a in fate, as in machine, o as in hole, u as in rude; with like shorter sounds of the short vowels; j like y in year, c and g like Greek kappa and gamma. This oldest of American colleges also requests instructors to teach their pupils to pronounce Greek with the Greek accents, and with the continental sounds of the vowels and dipthongs. Now, if Yale once takes ground with Harvard, as seems likely from the action of certain of her faculty at the Poughkeepsie Convention, the preparatory schools which act as feeders to these two great institutions. will fall in line at once, and the other colleges will not be long in following suit.

And when this is done, a real and valuable reform will have been effected. We have no patience when we think of the months we have wasted in studying and teaching these two languages, because of the prevalent absurd, incoherent no-system of pronunciation, which has somehow been foisted upon these helpless tongues. We cannot take space here to discuss such a matter fully enough to show the grounds of an opinion, but we may say in a word, that only loss can come from disregarding the genus of a language or science; that it is only a waste of precious time and strength to teach in words and rules what we forbid or ignore in practice; that the development and etymology of these tongues is inexplicable, so long as we adhere to the present "English" pronunciation of them; that it unfolds itself according to phonic laws, which are rudely broken, if a new set of sounds is imported to interpret its characters; that falsities cannot be expected to be more fruitful of good in the field of grammar than in that of science. If any excuse is needed for saying thus much on a matter that cannot interest everybody, we trust it may be found in the fact, that in every village in the land, scores of young men and women are busy with the Latin accidence. They will get none too much Latin in the use of the best methods.

Another welcome feature in the Havvard catalogue, is the announcement that students, soon after their admission, will be examined in reading English. For the year 1870, they were asked to prepare themselves in Craik's English of Shakespeare (Julius Cæsar) or in Milton's Comus. It is high time that our English speech should have more and more critical attention paid to it, both in colleges and high schools. We plead for more English without asking for less Greek. Perhaps, in many cases, less Greek would be about the same thing as no Greek at all.—New York Teacher.

COUNTY FUND.

In aid of Public Schools, appropriated to Trustees of School Sections for the Term ended Oct. 31st, 1870.

The asterisk (\*) indicates the Poor Sections

#### CO. OF ANTIGONISH.

		Grand Total	,
	No. of pupils	days at-	Amount from
SUCTION.	register- ed.	made by all the	County Fund
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Pleasant Valley,	42	1525	20 88
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18	79	Street's Ridge,	38	1324	15 64
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Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 105 Meteghan, 105 Therian, 45 Cape Cove, 55 LesConcessions. 57	5557 6249 55859 6841 86465 211714 423195 54370 55274 3534	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 68 51 52 46 03	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28	7000 64 9 5528 51 9 4468 41 9 4585 42 9 2281 21 2084 19	93 P 28 E 45 S 53 C 16 C	reston Road, Preston, Castern Passage L. E. Passage, Jow Bay, Cole Harbor, Lawrencetown,	62 2554 61 2603 60 3454 59 31614 41 29474 56 2577 30 2058	34 70 86 29 313 40 45 60 44 20 29 05 27 05 35 86 32 85 30 09 20 75 21 35
Grossecoque, 76 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 105 Meteghan, 105 Therian, 44 Cape Cove, 55 LesConcessions. 57	5557 6249 55859 6841 86465 211714 23195 64370 75274 3534 61587	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 68 51 52 40 03 20 65 22 62	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51	7000 64 9 5528 51 9 4468 41 9 4585 42 9 2281 21 2084 19	93 P 28 E 45 S 16 C 133 L 14 L	reston Road, freston, astern Passage E. Passage, low Bay, cole Harbor, awrencetown, ake Porter,	62 2554 61 2603 60 3454 59 31614 41 29474 56 2577 30 2058 54 2402	34 70 86 29 313 40 45 60 44 20 29 05 27 05 35 85 30 69 20 75 21 35 24 95
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 100 Therian, 44 Cape Cove, 55 LesConcessions. 57 *Cheticamp, 72 *New Tusket, 20 *Rosedale, 44	5557 6249 5559 5559 5641 8 0465 2 11714 4 23195 5 4370 7 5274 0 3534 0 3534 0 1737 1 1864	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 68 51 52 46 03 20 65 22 62 24 18	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74	7000 64 5528 51 54168 41 4585 42 2281 21 2084 19 2818 26 4662 43 8510 32	93 28 45 53 16 33 14 25 84	reston Road, reston, lastern Passage, le Passage, low Bay, lole Harbor, lawrencetown, lawrencetown, lake Porter, leaforth, laczzetcook,	61 2603 60 3454 59 31611 41 29471 50 2577 30 2058 54 2402 47 2284 232 13047	34 70 86 29 343 40 45 60 44 20 29 05 27 05 35 85 32 85 30 69 20 75 21 35 24 95 31 00 135 45
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 105 Meteghan, 165 Therian, 44 Cape Cove, 55 LesConcessions. 57 *Cheticamp, 76 *New Tusket, 26 *Havelock, 36	5557 7 0249 5 5559 5 8641 6 0465 2 11714 4 23195 5 4370 5 4370 6 1587 6 1737 1 1864 4 192	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 68 51 52 40 03 20 65 22 62	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26	7000 64 5528 51 4468 41 4585 42 2281 21 2084 19 2818 26 4662 43 3510 32 4849 59 1746 21	93 28 45 53 16 33 14 25 84 97 60	reston Road, reston, castern Passage Le Passage, low Bay, cole Harbor, awrencetown, aske Porter, ceaforth, chezzetcook, Routilier's Point, Head Harbor,	02 2854 01 2603 00 3454 59 31614 41 29474 56 2577 30 2058 54 2402 47 2284 232 13047 35 21474 39 1721	34 70 86 29 313 40 45 60 45 60 29 05 27 05 35 85 30 69 21 35 24 95 31 00 135 45 29 85
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 103 Meteghan, 105 Therian, 4. Cape Cove, 55 LesConcessions. 57 *Cheticamp, 76 *New Tusket, 20 *Rosedale, 4. *Ccdar Lake Road, 76 *Bonder Se *Southvale, 36	5557 7 0249 5 5859 5 8641 3 0465 2 11714 4 23195 5 4370 5 3534 6 1587 6 1737 4 1864 4 192 ction.	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 68 51 52 46 03 20 65 22 62 24 18 54 60 8 85	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20	7000 64 5528 51 4468 41 4585 42 2281 21 2084 19 2818 26 4662 43 3510 32 4849 59 1746 21 1263 15 1019 12	003 93 28 28 50 CCLL SCCLL SCC LLSC *******************	reston Road, reston, lastern Passage Le Passage, low Bay, lole Harbor, lawrencetown, lake Porter, leaforth, lhezzetcook, Routilier's Point, Head Harbor, West Dover, East Dover,	02 2854 61 2603 60 3454 59 31614 41 29474 56 2577 30 2058 54 2402 47 2284 232 13047 35 21474 39 1721 39 1721 39 300	34 70 86 29 313 40 45 60 42 00 29 05 35 85 30 69 26 75 21 35 21 35 21 35 22 70 23 85 29 70 23 85 24 75
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 105 Meteghan, 105 Therian, 4. Cape Cove, 55 *Cheticamp, 76 *New Tusket, 20 **Rosedale, 4. **Rosedale, 4. **Codar Lake Road, 100 **Southvale, 30 **Cedar Lake, 30 **Cedar Lake, 30 **Cedar Lake, 30 **Cedar Lake, 30	0 5557 0 240 5 5859 6 8641 8 0465 2 11714 4 23195 7 5274 0 3534 6 1587 1 1737 1 1864 4 192 ction. 2 681 3 2372	54 25 61 05 57 24 81 60 63 15 114 44 22 65 51 52 46 03 20 65 22 62 24 18 54 60 8 85 30 89	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31	7000 04 5528 51 5408 41 4585 42 2281 21 2084 19 2818 26 4662 43 3510 32 4849 59 1746 21 1263 15 1019 12 4824 59	PP	reston Road, reston Road, reston Passage, Le Passage, We Bay, The Passage, The Pass	02 2854 01 2603 00 3454 59 3161 <sub>1</sub> 41 2947 <sub>1</sub> 56 2577 30 2058 54 2402 47 2284 232 13047 35 2147 <sub>1</sub> 36 1758 49 3300 7 405	34 70 86 29 313 40 45 60 44 20 29 05 35 85 30 69 26 75 21 35 21 35
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 103 Meteghan, 165 Therian, 4. Cape Cove, 55 LesConcessions. 57 *Cheticamp, 76 *New Tusket, 26 *Rosedale, 4. *Cedar Lake Road, 76 *Southvale, 36 *Cedar Lake, 36 *Co. OF GUYSB	0 5557 7 0249 5 5859 6 8641 8 0465 2 11714 4 23195 5 4370 6 1587 6 1737 4 1864 5 4192 criox. 2 681 3 2372	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 68 51 52 46 03 20 65 22 62 24 18 54 60 8 85 30 89	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21	7000 04 5528 51 54168 41 4585 42 2281 21 2084 19 2818 26 4662 43 3510 32 4849 59 1746 21 1263 15 1019 12 4824 59 3300 40	PES CC LL S C * * * * * * * * * * * * * * * * * *	reston Road, reston, Rosage in Passage, less Passage, less Passage, less Passage, less Passage, less Porter, less Point, less	61 2603 61 2603 60 3454 59 3161 <sub>1</sub> 41 2947 <sub>1</sub> 56 2577 30 2058 54 2402 47 2284 232 13047 35 2147 <sub>1</sub> 36 1721 45 1758 49 3300 7 405	34 70 86 29 313 40 45 60 45 60 29 05 27 05 35 85 32 85 30 09 21 35 21 95 31 00 135 45 29 85 21 35 21 3
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 103 Meteghan, 162 Therian, 4. Cape Cove, 55 LesConcessions. 57 *Cheticamp, 76 *New Tusket, 26 *Rosedale, 4. *Codar Lake Road, 76 *Southvale, 36 *Codar Lake, 36 *Codar Lake	0 5557 7 0249 5 5859 6 8641 8 0465 2 11714 4 23195 5 4370 6 1587 6 1737 4 1864 5 4192 criox. 2 681 3 2372	54 25 61 05 57 24 81 60 63 15 114 44 22 65 51 52 46 03 20 65 22 62 24 18 54 60 8 85 30 89	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain. 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37	7000 64 5528 51 5408 41 4458 42 2281 21 2084 19 2818 26 4662 43 3510 32 4849 59 1746 21 1263 15 1019 12 4824 59 3300 40 2553 91 1797 22	PES CC LLS C ***  114 S C C LLS C **  114 S C C C LLS C **  115 C C C C C C C C C C C C C C C C C C	reston Road, reston, fastern Passage, fastern Passage, fow Bay, fole Harbor, awrencetown, ake Porter, facaforth, flezzetcook, Boutilier's Point, Head Harbor, West Dover, East Dover, Blind Bay, Beech Hill, Lower Prespect, Terence Bay.	02 2854 61 2603 60 3454 59 31614 41 29474 56 2577 30 2058 54 2402 47 2284 232 13047 35 21474 39 1721 49 3300 7 405 23 8614 36 2850 70 3027 32 2155	34 70 86 29 313 40 45 60 29 05 27 05 35 85 30 69 21 35 24 95 31 00 135 45 29 75 21 35 45 75 11 95 45 75 41 90 29 80
Grossecoque, 76 Port Acadie, 77 Comeauville, 85 Saulnierville. 116 Meteghan River, 105 Meteghan, 165 Therian, 44 Cape Cove, 55 LesConcessions. 57 **Cheticamp, 76 **New Tusket, 26 **Havelock, 36 **Rosedale, 44 **Cedar Lake Road, 76 **Southvale, 36 **Cedar Lake, 36 **Cedar Lake, 36 **Co. OF GUYSB Guysboro, 156 Intervale, 86 Roman Valley, 66	5557 7 0249 7 0249 5 8641 8 0465 2 11714 1 23195 6 4370 6 1587 1 1864 6 4192 CTION. 2 681 8 2372 6 OROUG 3 10462 7 3005 8 2037	54 25 61 05 57 24 81 60 63 15 114 44 22 65 51 52 46 03 20 65 22 62 24 18 51 60 8 85 30 89 6H.	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, \$2 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27	7000 04 5528 51 4468 41 4585 42 2281 21 2084 19 2818 26 4662 43 3510 32 4849 59 1746 21 1263 15 1019 12 4824 59 3300 40 2553 91 993 12 1797 22 2718 33 1420 17	PESCCLLSC********************************	reston Road, reston, Road, reston, Rosage, lastern Passage, le Pas	61 2603 61 2603 60 3454 59 3161 <sub>4</sub> 41 2047 <sub>4</sub> 56 2577 30 2058 54 2402 47 2284 232 13047 35 2147 <sub>4</sub> 35 1758 49 3300 7 405 23 861 <sub>4</sub> 36 2850 70 3027 32 2155 12 842 37 1319	34 70 86 29 343 40 45 60 45 60 20 05 27 05 35 85 32 85 32 09 21 35 24 95 21 35 21 35 21 35 21 35 21 35 21 35 45 70 21 35 45 70 21 35 45 75 41 95 41 95
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 103 Meteghan, 105 Therian, 4. Cape Cove, 5. *Cheticamp, 73 *New Tusket, 26 *Rosedale, 4. *Codar Lake Road, 73 *Southvale, 36 *Cedar Lake, 36 *Codor Code GUYSB Guysboro, 15 Intervale, 87 Roman Valley, 66 Salmon River, 56	0 5557 7 0240 6 5559 6 8641 8 0465 2 11714 4 23195 7 5274 0 3534 6 1587 6 1737 4 1864 6 4192 criox. 2 681 8 2372 6 OROUG 3 10462 7 3005 7 3005 7 3005 8 3607 8 2431	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 65 46 03 20 65 22 62 24 18 54 60 8 85 30 89 8H. 8133 39 45 98 30 99	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 *Stillwater, 38 *5 Mile Plain, 27 *Newport & Douglas, 36 Hantsport, 33	7000 64 5528 51 4468 41 4585 42 2281 21 2281 26 4662 43 3510 32 4840 21 1746 21 1263 15 1019 12 4824 59 3300 40 2553 31 993 12 1797 22 2718 33 1420 17 3651 24 13251 101	PP S C C L L S C * * * * * * * * * * * * * * * * * *	reston Road, reston, lastern Passage, le Porter, le Porter, le Point, le Passage, le Point, le Passage, le Passage	02 2854 01 2603 00 3454 59 31614 41 29474 56 2577 30 2058 54 2402 47 2284 232 13047 35 21474 39 1721 45 1758 49 3300 7 405 23 8614 36 2850 70 3027 32 2155 12 842 37 1319 88 3741 61 2308	34 70 86 29 343 40 45 620 27 05 35 85 32 85 30 075 24 95 21 35 24 35 24 35 45 75 29 85 21 35 21 35 21 35 21 35 21 35 21 35 21 35 30 9 21 35 21 35 30 9 21 35 30 9 30 9 30 9 30 9 30 9 30 9 30 9 30 9
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 116 Meteghan River, 103 Meteghan, 162 Therian, 4. Cape Cove, 55 LesConcessions. 57 LesConcessions. 57 *New Tusket, 26 **Rosedale, 4. **Codar Lake Road, 76 **Southvale, 36 **Cedar Lake, 36 **Codor Lake, 36 **Southvale, 36 **Codor Lake, 36 **Codor Lake, 36 **Southvale, 36 **Southva	0 5557 7 0249 5 5859 6 8641 8 0465 2 11714 4 23195 6 4370 8 1587 6 1737 1 1864 6 4192 ctiox. 2 681 8 2372 6 OROUG 3 10462 7 3005 8 2037 8 2037 8 2037 8 2431 1 1582 7 2284	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 65 51 52 46 03 20 65 22 42 18 54 60 8 85 30 89 8 85 30 97 45 98 30 99 10 53 29 12	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36	7000 64 5528 51 4468 41 4585 42 2281 21 2918 26 4662 43 3510 32 4849 59 1746 21 1263 15 1019 12 4824 59 3300 40 2553 91 1797 22 2718 33 1420 17 3651 24 13251 101 1260 11	PPESCCLLSC********************************	reston Road, reston, Road, reston, Road, reston, Rastern Passage, Reston, Road, Reston, Road, Reston, Road, Reston, Re	02 2854 01 2603 00 3454 59 3161 <sub>1</sub> 41 2947 <sub>1</sub> 56 2577 30 2058 54 2402 47 2284 232 13047 35 2147 <sub>1</sub> 35 1721 45 1758 49 3300 7 405 23 861 <sub>1</sub> 36 2850 70 3027 32 2155 12 842 37 1319 88 3741 61 2308 57 5379 21 16024	34 70 86 29 45 60 45 60 29 05 35 85 30 75 31 35 31 35
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 103 Meteghan, 165 Therian, 4. Cape Cove, 55 LesConcessions. 57 New Tusket, 26 **Rosedale, 4. **Cedar Lake Road, 76 **Southvale, 36 **Cedar Lake, 36 **Cedar Lake, 36 **Cook's Cove, 56 Salmon River, 56 Salmon River Lakes, 4	7 0249 7 0249 8 641 8 0465 8 11714 1 23195 6 4370 8 1587 1 1864 1 1864 1 192 1 1864 1 192 1 193 1 193	54 25 61 05 57 24 81 60 63 15 114 44 22 65 42 65 42 65 20 65 22 62 24 18 54 60 8 85 30 89 6H. 8133 39 45 98 30 99 10 53	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36 Hantsport, 33 Walton, Hiilsdale,	7000 64 5528 51 4468 41 4585 42 2281 21 2084 19 2818 26 4662 43 3510 32 4849 59 1746 21 1019 12 4824 59 3300 40 2553 31 109 12 4824 59 3300 40 2553 31 1797 22 2718 33 1420 17 3651 24 13251 101 1260 11 1260 18	PPESCCLLSC********************************	reston Road, reston, Road, reston, Road, reston, Rastern Passage, Reston, Road, Reston, Road, Reston, Road, Reston, Re	02 2854 01 2603 00 3454 59 3161 <sub>4</sub> 41 2947 <sub>4</sub> 56 2577 30 2058 54 2402 47 2284 232 13047 35 2147 <sub>4</sub> 35 2147 <sub>4</sub> 36 2850 7 405 23 861 <sub>4</sub> 36 2850 70 3027 32 2155 12 842 37 1319 88 3741 61 2308 57 5370 21 1602 <sub>4</sub> 46 2752 <sub>4</sub>	34 70 86 29 343 40 45 620 27 05 35 85 32 09 21 35 32 09 21 35 31 05 45 00 21 35 45 70 21 35 45 70 21 35 45 75 41 95 41 9
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 103 Meteghan, 105 Therian, 4. Cape Cove, 5. *Cheticamp, 76 *New Tusket, 26 *Rosedale, 4. *Rosedale, 4. *Codar Lake Road, 7. *Southvale, 30 *Cedar Lake, 30 *Codor Lake, 30 *Southvale, 30 *Codor Lake, 30 *Southvale, 30 *Southvale, 30 *Codor Lake, 30 *Southvale, 30 *Southvale, 30 *Southvale, 30 *Southvale, 30 *Codor Lake, 30 *Southvale, 30 *Sou	0 5557 7 0240 7 0240 5 5859 6 8641 8 0465 2 11714 4 23195 7 5274 1 3534 1 1587 1 1864 1 1587 2 681 3 2372 CHOUG 3 10462 7 2005 7 2005 8 3607 8 2431 1 1582 7 2284 1 1582 7 2284 8 61 0 2488 5 3689	54 25 61 05 57 24 81 60 63 15 114 44 22 65 51 52 46 03 20 65 22 41 80 8 85 30 89 813 39 125 98 30 19 53 20 97 21 10 97 21 10 97 21 17 17 17 17 17 17 17 17 17 17 17 17 17	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36 Hantsport, 33 Walton, Hillsdale,  DISTRICT OF 1 Rawdon Church, 53 South Rawdon, 73	7000 64 5528 51 4468 41 4585 42 2281 21 2281 21 2281 26 4662 43 3510 32 4840 59 1746 21 1263 15 1019 12 4824 59 3300 40 2553 91 998 12 1797 22 2718 33 1420 17 3651 24 13251 101 1260 11 656 8 MANTS. 2848 \$22 4258 34	PESCCLLSC********************************	reston Road, reston Road, reston, astern Passage, astern Passa	02 2854 01 2603 00 3454 59 31614 41 29474 56 2577 30 2058 54 2402 47 2284 232 13047 35 21474 39 1721 45 1758 49 3300 7 405 23 8614 36 2850 70 3027 32 2155 12 842 37 1319 88 3741 61 2308 57 5370 21 16024 46 27524 46 27524 25 1492	34 70 86 29 86 29 45 40 29 05 35 85 32 85 30 75 31 35 32 85 30 75 31 35 31 35
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 116 Meteghan River, 108 Meteghan, 162 Therian, 4. Cape Cove, 5. LesConcessions. 5. *Cheticamp, 76 *New Tusket, 26 *Rosedale, 4. *Codar Lake Road, 7. *Southvale, 36 *Codar Lake, 36 *Codar Lake	7 5557 7 6249 6 8641 8 6465 8 11714 1 23195 6 4370 1 3534 6 1587 6 1737 1 1864 6 4192 criox. 2 681 8 2372 6 0 0 0 0 0 8 2488 1 1582 7 2284 1 1582 7 2284 1 1582 7 2284 8 4275 8 3211	54 25 61 05 57 24 61 05 81 60 63 15 114 44 22 65 42 65 42 65 42 65 42 65 42 65 42 65 43 51 45 98 51 60 81 83 83 81 25 98 45 98 50 99 10 97 47 05 40 94	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36 Hantsport, 33 Walton, Hillsdale, DISTRICT OF 1 Rawdon Church, 53 South Rawdon, 73 East Gore, 48 East Rawdon, 71	7000 64 5528 51 5408 41 44585 42 5281 26 4662 43 3510 32 4849 50 1746 21 17263 15 1019 12 4824 59 3300 40 2553 31 1420 17 3651 24 13251 101 1260 11 650 8 1ANTS. 2848 \$22 4258 34 23 16 2891 23	PPESCCLLSC********************************	reston Road, reston, Roston, Roston, Roston, Rastern Passage, Le. Passage, Le. Passage, Le. Passage, Row Bay, Cole Harbor, Road Porter, Roaforth, Road Harbor, Road Harbor, Road Harbor, Road Harbor, Road Harietsfields, Road Harietsfields, Road Harbor, Rortuguese Co. C. Road Rank Sta. Windsor Junction, Grand Lake, Devil's Island, Salmon Hole, Middle,	02 2854 01 2603 00 3454 59 3161 <sub>4</sub> 41 2947 <sub>4</sub> 56 2577 30 2058 54 2402 47 2284 232 13047 35 1721 45 1758 49 3300 7 405 23 861 <sub>4</sub> 36 2850 70 3027 32 2155 12 842 37 1319 88 3741 61 2308 57 5370 21 1602 <sub>4</sub> 46 2752 <sub>4</sub> 35 1492 20 1387 28 871 <sub>4</sub>	34 70 86 29 86 29 45 60 29 05 35 85 30 07 35 85 30 07 35 45 30 07 31 35 31 35
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 103 Meteghan, 105 Therian, 4. Cape Cove, 5. LesConcessions. 57 *Cheticamp, 76 *New Tusket, 20 **Rosedale, 47 **Rosedale, 47 **Codar Lake Road, 47 **Codar Lake, 36 **Codar Lake, 3	7 5557 7 6240 7 6245 7 5859 8 6415 8 6465 2 11714 4 23195 7 5274 6 1587 1 737 6 1737 6 1402 6 10462 7 5005 8 2372 6 10462 7 5005 8 2431 1 1582 7 2284 1 1582 7 2284 8 3211 8 3242 1 3242	54 25 61 05 61 05 61 05 61 05 61 05 61 05 61 14 44 62 68 63 15 64 00 65 22 68 88 69 39 69 19 19 60 19 19 19 60 19 19 60 19 19 60 19 19 60 19 19 60 19 19 60 19 19 19 60 19 19 60 19 19 19 19 19 19 19 19 19 19 19 19 19	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36 Hantsport, 33 Walton, Hillsdale, 73 East Gore, 48 East Rawdon, 73 East Gore, 48 East Rawdon, 77 Upper 9 Mile River, 57 West M. Road, 39	7000 64 5700 64 5700 64 5700 64 5700 64 5700 64 5700 64 5700 64 5700 64 64 65	PESCCLLSC********************************	reston Road, reston, Road, reston, Road, reston, astern Passage, E. Passage, W. Bay, ble Harbor, awrencetown, aske Porter, beaforth, Chezzetcook, Boutilier's Point, Head Harbor, West Dover, East Dover, Blind Bay, Beech Hill, Lowe Prospect, Terence Bay. Terence Bay. Terence Bay. Retch Harbor, Portuguese Core, Purguson's Cove. Beaver Bank Sta. Windsor Junction, Grand Lake, Devil's Island, Salmon Hole, Middle, Head Chezzetcook, Low. E. Chezzetcook, Low. E. Chezzetcook	02 2854 01 2603 00 3454 50 3161 41 2047 41 2047 50 2577 30 2058 54 2402 47 2284 232 13047 35 1721 45 1758 49 3300 7 405 23 861 36 2850 70 3027 32 2155 12 842 37 1319 88 3741 61 2308 57 5370 21 1602 46 2752 46 2752 47 228 48 37 1319 88 3741 61 2308 67 5370 21 1602 48 2752 48 2752 48 2752 48 2752 48 2752 58 271 58 2327	34 70 86 29 45 80 45 60 29 05 35 85 30 75 35 85 30 75 21 35 21 35
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 108 Meteghan, 105 Therian, 4. Cape Cove, 5. LesConcessions. 55 *Cheticamp, 76 *New Tusket, 26 *Rosedale, 4. *Rosedale, 4. *Cedar Lake Road, 76 *Southvale, 36 *Cedar Lake, 36 *Co. OF GUYSB Guysboro, 15 Intervale, 87 Roman Valley, 66 Roman Valley, 67 Salmon River, 58 Salmon River, 58 Salmon River, 59 Salmon River, 59 Salmon River, 59 Salmon River, 50 Salmon River,	0 5557 7 0240 1 8641 2 11714 4 23195 5 4379 6 1587 1 1864 1 1587 1 1864 1 1587 2 681 2 681 2 372 CHOX. 2 681 3 2372 CHOX. 2 681 3 10462 7 2005 3 3607 1 1582 7 2284 1 1582 7 2284 2 3689 8 3211 1 3242 5 5039 2 3391	54 25 51 05 26 26 26 26 26 26 26 26 26 26 26 26 26	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36 Hantsport, 33 Walton, Hillsdale, 53 Kawdon Church, 53 South Rawdon, 73 East Gore, 48 East Rawdon, 71 Upper 9 Mile River, 57 West M. Road, 39 9 Mile River, 39 9 Mile River, 39	7000 64 5700 64 5700 64 5700 64 5700 64 5700 64 5700 64 5700 64 5700 64 64 65	PPESCCLLSC********************************	reston Road, reston, Road, reston, Rosage, Le. Passage, low Bay, cole Harbor, awrencetown, ake Porter, locaforth, locazetcook, Boutilier's Point, Head Harbor, West Dover, Blind Bay, Beech Hill, Lower Prospect, Terence Bay. Pennant, Plarrietsfields, Portuguese Core, Portuguese C	02 2854 01 2603 00 3454 50 2577 30 2058 54 2402 47 2284 232 13047 45 1758 49 3300 7 405 23 861 45 1758 49 3300 7 405 23 861 45 2850 70 3027 32 2155 12 842 1304 12 1304 13 10 10 10 10 10 10 10 10 10 10 10 10 10	34 70 86 29 86 29 45 40 29 05 35 85 30 75 35 85 30 75 31 45 20 27 35 85 30 75 31 45 45 90 21 45 31 45 45 90 45 45 45 90 46 45 46 45 47 47 45 47 47 45 47 47 45 47 47 45 47 47 45 47 47 45 47 47 45 47 47 45 47 47 45 47 47 45 47 47 47 47 47 47 47 47 47 47 47 47 47 4
Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 116 Meteghan River, 108 Meteghan, 165 Therian, 4. Cape Cove, 55 LesConcessions. 57 New Tusket, 26 **Rosedale, 4. **Cedar Lake Road, 76 **Southvale, 36 **Cedar Lake, 36 **Cedar Lake, 36 Co. OF GUYSB Guysboro, 15 Intervale, 87 Roman Valley, 66 Cock's Cove, 56 Salmon River, 56 Salmon River, 56 Salmon River Lakes, 4 New Harbor, 56 Black Point, 26 White Head, 66 Charlo's Cove, 56 Torbay, 67 Gammon's Point, 11 Manchester, 77 Manohester Clam Harbor, 77 Goose Harbor, 37	5557 7 0249 5 8641 6 8641 6 8645 6 11714 4 23195 6 4370 6 1587 6 1737 1 1864 6 1587 6 1737 1 2005 8 2372 6 10462 7 2005 8 2037 8 2037 1 1582 7 2284 1 1582 7 2284 8 3211 1 1582 7 2284 8 3211 1 1582 7 2284 8 3211 1 1582 7 2284 8 3211 1 1 242 1 242	54 25 61 054 61 054 61 055 61 056 61 057 61 057	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36 Hantsport, 33 Walton, Hillsdale, 53 Cogmagun, 36 *Sawdon Church, 53 South Rawdon, 73 East Gore, 48 East Rawdon, 71 Upper 9 Mile River, 57 West M. Road, 39 9 Mile River, 39 Mt. Pleasant, 37	7000 64 5528 51 4468 41 4585 42 2281 21 2084 19 22818 26 4662 43 3510 32 4849 59 1746 21 1263 15 1019 12 4824 59 3300 40 2553 91 1797 22 2718 33 1420 17 3651 24 13251 101 1260 11 650 8 IANTS. 2848 \$22 4258 34 4258 34 42	PESCCLLSC********************************	reston Road, reston, fastern Passage, fow Bay, fole Harbor, awrencetown, ake Porter, facaforth, flezzetcook, Boutilier's Point, Head Harbor, West Dover, East Dover, Elind Bay, Beech Hill, Hower Prospect, Terence Bay. Pennant, Harrietsfields, Spryfield, Wetch Harbor, Portuguese Core, Furguson's Cove, Passage Cove, Furguson's Cove, Eleaver Bank Sta. Windsor Junction, Grand Lake, Middle, Salmon Hole, Middle, Head Chezzetcook, Low E. Chezzetcook, Low E. Chezzetcook, Lower Jeddore, W. Lower Jeddore	01 2603 01 2603 00 3454 50 3161 <sub>1</sub> 41 2047 <sub>1</sub> 50 2577 30 2058 47 2284 232 13047 35 2147 <sub>2</sub> 45 1758 45 1758 49 3300 7 861 <sub>1</sub> 36 2850 70 3027 32 2155 12 842 37 1319 88 3741 61 2308 67 2752 <sub>1</sub> 46 2752 <sub>2</sub> 46 2752 <sub>3</sub> 57 1402 20 1387 28 871 <sub>1</sub> 58 2327 58 2327 58 2327 58 2327 58 2327 59 3093 62 3579 <sub>4</sub> 55 2596 56 2343	34 70 86 29 86 29 45 60 90 05 85 85 90 05 91 35 92 85 93 85 94 95 95 95 96 95 97 95 97 95 98 96 98 95 98 98 98 95 98 95 98 95 98 95 98 95 98 95 98 95 98 95 98 96 98 95 98
Grossecoque, 79 Port Acadie, 77 Comeauville, 83 Saulnierville. 110 Meteghan River, 103 Meteghan, 105 Therian, 44 Cape Cove, 55 *Cheticamp, 76 *New Tusket, 20 **Rosedale, 47 **Rosedale, 47 **Codar Lake Road, 47 **Codar Lake, 36 **Cedar Lake, 36 **Codar Lake, 37 **Codar Lake, 36	7 5557 7 5259 6 8641 8 6465 8 11714 4 23195 7 5274 6 1587 7 5274 1 1587 1 1587 1 10462 2 372 6 10 10462 3 2372 6 10 10462 7 2005 7 2005 7 2005 8 4275 8 4275 8 4275 8 4288 7 3689 8 4275 8 4275 8 4275 8 4275 8 4275 8 4275 8 4288 7 3089 8 4275 8 7 7 808 9 7 808	54 05 25 25 25 25 25 25 25 25 25 25 25 25 25	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Vaughan, 26 *South Waterville, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Donglas, 36 Hantsport, 33 Walton, 11 *Rawdon Church, 53 South Rawdon, 73 East Gore, 48 East Rawdon, 71 Upper 9 Mile River, 39 9 Mile River, 39 9 Mile River, 39 15 Mile Planant, 30 Mt. Pleasant, 37 Melsford, 77 Mill Village, 60	7000 64 5528 51 4468 41 4585 42 2281 21 2284 19 2818 26 4662 43 3510 32 4840 59 1746 21 1263 15 1019 12 4824 59 3300 40 2553 31 998 12 1797 22 2718 33 1420 17 3651 24 13251 101 1260 8 13251 24 13251 101 1260 8 13251 24 13251 24 13251 24 13251 24 13251 24 13251 36 1420 17 3651 24 13251 24 2848 \$22 4258 34 2848 32 4258 34 2848 22 4258 34 2848 22 2848 22 2848 22 2848 22 2848 22 2848 22 2848 22 2848 22 2848 22 2848 22 2858 23 2858 23 2858 23 2858 23 2858 23 2858 23 2858 23	PPESCCLLSC********************************	reston Road, reston, Road, reston, Rosage, Le. Passage, Le. Porter, Le. Porter, Le. Point, Le. Porter, Le. Point,	02 2854 03 3454 00 3454 10 3454 11 20474 12 20474 13 20472 13 2057 13 2057 13 2057 13 1721 17 1758 19 2052 10 2058 10 2058 11 2058 11 2058 11 2058 11 2058 11 2058 11 2058	34 70 86 29 86 29 86 20 86 20 86 20 86 20 87 85 87 87 85 87 87 85 87 87 85 87 87 85 87 8
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Grossecoque, 79 Port Acadie, 77 Comeauville, 85 Saulnierville. 110 Meteghan River, 108 Meteghan, 105 Therian, 4. Cape Cove, 5. LesConcessions. 55 *Cheticamp, 76 *New Tusket, 26 *Rosedale, 4. *Rosedale, 4. *Cedar Lake Road, 76 *Southvale, 36 *Cedar Lake, 36 *Co. OF GUYSB Guysboro, 15 Intervale, 87 Roman Valley, 66 Roman Valley, 67 Salmon River, 58 Salmon River, 58 Salmon River, 56 Salmon River, 57 Salmon River, 56 Salmon River, 57 Salmon River, 56 Salmon River, 57 Salmon River, 57 Manchester, 66 Charlo's Cove, 55 Torbay, 57 Gammon's Point, 10 Manchester, 77 Goose Harbor, 37 Tracadie, 77 Goose Harbor, 37 Tracadie, 57 Port Mulgrave, 10 Pirate Harbor, 44 Steep Creek, 65	0 5557 0 240 0 240 0 3534 1 23195 0 4192 0 1587 1 1864 1 1587 1 1864 1 1864	51 05 240 652 652 652 652 652 652 652 652 652 652	Burlington, 117 Kempt, 99 Cheverie, 76 Scotch Village, 83 Woodville, 31 McKay, 28 Newport Road, 51 St. Croix, 82 Ellerhouse, 74 *3 Mile Plain, 31 *Great D. Kennetcook, 20 *Brookville, 82 *Pembroke, 55 *Cogmagun, 36 *Greenhill, 21 *Ardoise, 37 *Stillwater, 38 *5 Mile Plain, 27 Newport & Douglas, 36 Hantsport, 33 Walton, Hillsdale, 53 South Rawdon, 73 East Gore, 48 East Rawdon, 71 Upper 9 Mile River, 57 West M. Road, 39 Shile River, 39 Belman, 30 Mt. Pleasant, 37 Welsford, 77 Mill Village, 60 Ryan Creek, 28 Rockville, 114 Maitland, 109	7000 64 5528 51 4468 41 4585 42 2281 21 2281 26 4662 43 3510 32 4840 50 1746 21 1263 15 1019 12 4824 50 3300 40 2553 51 993 12 1797 22 2718 33 1420 17 3651 24 13251 101 1260 11 650 8 MANTA 24 4258 34 2030 16 2848 \$22 4258 34 2030 21 4325 34 2915 17 1692 13 2703 21 4325 34 2881 23 1443 11 8573 69	PESCCLLSC********************************	reston Road, reston, Road, reston, Rosage, Le. Passage, Le. Porter, Leaforth, Lead Harbor, West Dover, Least	02 2854 03 3454 00 3454 10 3454 11 20474 12 20474 13 20472 13 20472 13 20472 13 20472 13 1758 17 21 17 33 300 17 30 21473 17 35 21474 23 2155 12 842 23 1319 85 27 1319 85 27 1319 86 27524 35 1402 26 27524 35 1402 27 28 8714 27 28 8714 28 8714 29 3093 59 235794 59 235794 59 2358 57 4218	34 70 90 40 00 00 00 00 00 00 00 00 00 00 00 00

Spry Harbor, Spry Bay, Sheet Harbor W. E. Lower E. Sheet H. Salmon River, Newdy Quoddy. Kirkers, Moser's River. Petpezwick, Petpezwick West,	56 51 63 66 53 49 74 62 37 46	1511 1516 4948 1818 19534 5995 2778 30324	36 46 86 75 47 65 18 25 18 85 20 39 62 25 39 15 28 85 41 95 20 80	Gaspercaux, Lower Gasperaux, Lower Horton, Avouport, Lockhartville, Bloomfield, South Mt. Prospect, Grand Pre, S. Seot's Bay, M. Percau, U. Gaspercaux,	142 40 25 125 57 38	2111 <sup>*</sup> 4740 <u>1</u> 9833 2110	31 69 26 80 24 11 47 41 98 33 21 10 18 36 67 99 35 08 34 85 13 57	*Frelig's, *Lallave Islands, *New Cumberland, *Crouse Town, *New Italy, *Newcombville. *Wile's, *Lakeville, *New Elm. *Lapland,	26 35	2505 4119 3002 2488 2663 2026 12434 18794 2137 21024	39 45 58 29 42 16 84 94 37 40 39 70 17 45 26 37 30 01 29 53
*Musquodoloit Hr. *Lower Jeddore. E Lakeville *Clam Harbor. *ShipHarbor. *Mooselands, *Guard's Island, *Nicumtaux, Landell's, Cook's,	31 35 43 43 14 18 28 No 41 51	2556 1068 2013 3122} 3314 9514 1771 Return. 2118 23304	35 35 11 80 27 85 43 20 45 85 13 15 24 50 22 00 21 30	Pleasant View, *Harmony, *Lake George, *Clermont, *Morden, Ormsby Road, Fair View, *Black Rock GivanM *Blue Mountain, *Banter's Harbor,	19 45 47 26 41 4.83 37	2512 1428 2396 2827 1737 1076 4296 24613 23163	28 97 33 51 19 06 31 97 37 74 23 18 14 36 57 30 32 85 30 91	East Chester. Basin, Windsor Road, Cross, Blandford, Bayswater. Pine Plains. **Grant,	12 1 82 65 38 39		\$101 91 77, 93 67 66 31 50 40 12 43 39 20 88 67 20 32 89 33 56
Meagher's Grant, Little River, Gladwin, North School, Taylor's, Reid's	51 73 61 45 45 35	3985 4022 3528 2018	22 30 11 40 41 75 39 65 27 20 19 55	*Pero Mountain, *Scot's Bay Mountain *Greenfield, *Australia, *West Cornwallis M *West Black Rock,	52 31 t.52	2320 3577 1760 15094 3425 2334	30 95 47 71 23 49 20 15 45 60 31 11		39 7	1791 196	47 64 5 18
Higgins, Sodgwick, Archibald's, Hutchinson, Henry.	77 #2 52 53 55 55	20504 1629 2513 3957 f	27 80 16 90 28 10 31 75 32 10	North River, *Lake Paul,	16 23	1341 1776	17 90 23 70	Cairiboo River.	49 57 89	1358 1358 2288 1347 1351	\$442 99 15 81 25 79 15 18 15 28
*Dutch Village,  *Lake Egmont, Kerr's,  *Dean,  *Chaplain,	21	1641 2920 1346 3146	22 r0 40 45 18 15 43 55 17 10	Kingston, *Dalkousie, Tremont,  CO. OF LI	45 YXE	2296 1091 3353 NBURG.	22 96 14 55 33 53	Cape John, S Shore, Elmsville, Land Marsh,	43 48 28 32	1369 1868 1131 1730	15 53 21 05 12 75 19 50 152 00
nonder		•	•••	Luncuburgh Town, 1st Peninsula,			237 63 30 42	Welsford (Bigney.) Welsford Bridge, West Branch Church,	57 41	2035 2 2081 3470	22 04 23 46 30 12
*G'enmore, DISTRICT		1825 KINGS.	25 25	2nd Peninsula, Upper Upper Centre, Garden Lota,	29	2335 1921 1578	21 60 20 21 16 62		31	2527 17154 1494	28 49 19 33 16 94
Greenwood,	GO)	3817	\$38 17	Lower South, Upper South,	61 43	3211 3057	38 83 32 21	Carriboo Meadows, Scotsburn,		3466 3315 2429	39 07 37 38 27 38
Waterville, (A) Morristown,	31 73		16 02 45 50	Febz South, Upper Rosebay.	27		17 57 23 09 30 77	Roger Hill, Rogers,	77	3501 24431	42 85 27 54
Sand Hill, Dempsey Corner,	36 36	2226 2754 14144	22 26 27 54	Lower Roschuy, Ritcey's Cove.	58	2825 4923 <u>;</u> 1975)	51 88 20 70	Brookland,	32	1334 3494	15 04 39 39
Brooklyn, (A) St. Mary's. Biology	30	2896	14 14 27 96 27 71	Lower LaHave, Ferry,	65	45234 2280	43 07 24 02	Mount Tho. Old Road Mount Thom Lower,	45	2067 1660	23 30 18 71
Piedmont, Long Point.	55 58	3544	35 44	Summerside, Snyder's LaH. Bond,	30	1831	19 29 36 01	Watervale. West River Station,	6S	3236 <sub>4</sub> 20044	36 40 23 27
Weston, Welsford.	46 36	2991 <u>4</u> 2305	29 92 23 05	North-west Range, Mader's Cove,	65 64	34185 3342	34 22	Gairlock,	44	2500	28 10
Somerset. zwiek,	61 72	3764 4073 <b>5</b>	37 65 40 73	Mahone Bay, Oakland,	130 Gl	8042 4645	84 77 48 95	Mill Brook,	25	3625 18444	40 87 15 15
/Berwick. Zaterville, (C)	51	2730£ 415 <b>7</b> £	27 31 41 57	Martin's River, Langille's	71 39	2869 <u>3</u> 2304	30 23   24 28		95 54	1383 1813	15 59 20 43
girafton,	7:3	4707	17 07	Centreville, N. G.	71 38	4143 <u>1</u> 2147	43 66 22 62	Fanuel Hall,		3243 3080	36 56 34 72
Kinsman's Corner. E. Black Rock,	82 50	5660 2938	57 60 29 38	Stambourne, Rosedale,	46	2840	29 93	Green Hill Lower,	38	2852	26 51
Chipman Brook, E. Hall's Harbor.	65	3601	36 01	Hirtle's N. G. Road. New Canada,	30 50	3170 5039	33 40	Central West River,	53	2308 2810	26 02 31 98
Lakeville, Billtown,	84	5978 3425	50 70 34 25	Meisingher's (Branch) Knock's, Ohio Road,		1822 2075	19 20 21 86			3824 39134	43 11 44 11
Brooklyn, (C)	36	23691	23 70	Snyder's (Branch),	37	2093 2587	22 05 27 86	Fisher Grant,		8996 2562	45 05 28 88
Cambridge, Cold Brook.	39 42	2409 2409	24 09 26 66	2nd Peninsula, Lower Tancook Island,	105	53254	56 12	Sandy Cove.	52	3113 2058)	35.10 33.34
Beech Hill, Lake Millo.	46 37	2575 2193	25 72 21 98	Bridgewater, Conquerall Bank,	194 50	14980 4450	157 77 46 89	Picton Island,	40	26324	29 67
Canaan, Kentville.	30 76	1922 <u>4</u> 4426	19 22 44 26	Pleasantville, Pentz's, West Ferry,	48 57	1265 3143	13 32 33 12			34105 <u>4</u> 1955	384 50 22 <b>0</b> 3
Steam Mill,	65	32364	32 37	Petit Reviere,	7.1	4009	42 22 14 75		49 43	3085 1864	34 88 21 11
Sheffield Mills. N. Scots Bay,	74 39	4929 <u>1</u> 3237	49 30 32 37	Broad Cove, Vogler's Cove,	38	2349 1604	16 90	Big Brook,	52	15313	17 05 20 30
Lower Pereau. Upper, Pereau.	46 41	1925 28063	19 25 28 06	Conquerall, Hebb's,	53 26	2069 1530	31 28 16 12	Fish Pools,	42	1890¥	31 81
Medford, Habitant,	90 37	4125 1850	41 25 18 50	Sclig's P. R. Rond. Baker's,	23 32	721 1229	7 59 12 94	Island, Hellerton, Acadia M. 1		2571 S2103	28 98 92 87
Canning,	147	8639	86 39	Chelsen, No. 2,	45 25	2314 1405	24 38 14 80	Albion Mines, 3	90 2	2916 2926	258 39 32 93
Woodside, Randville,	46	5114 <b>7</b> 4300	43 90 21 15	Waterloo, Blue Rocks,	51	81314	53 98	Bridgeville,	54	15494	17 46 22 14
U. Canard, L. Canard,	103 103		71 25 71 25	*Black Rocks, *Heckman's Island,		3517 1660	49 4 23 82	Sanny Brier R.	70	19644	24 34
Town Plot, Church Street,	47		23 14 27 21	North West Range, Weinacht's,	45 20	2566 1596	36 05 32 00	Blue Mountain.	57	1810 <u>1</u> 2935 <u>1</u>	20 47 33 31
U. Church St.	50		31 22	Indian Point,	40	24731 1050	34 93 14 74			2568 1993	28 95 22 38
Port William, New Minas,	60 60	36213	30 55	*Lower Cornwall, *Falkland,	47	3020	42 44	Watervale,	44	18124 26264	20 42 29 60
Greenwich, Wolfville,	61 181	3470 10261	34 70 102 61	*Wost Northfield,  Penny's,	34 25	2258 1582	31 71	Maral: McLellen's Mt.	44	2500	28 13
Black River, Davison Settlement,	69	2612 897	26 12 8 97	*Big Lots. *Ironbound,	20	1051 636 <u>1</u>	14 78 S 92	McLellin's Brook, L. Fraser's Mt. South,	40 34	2308 1823	26 02 20 54

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Matallanta Du Par 10	()(())	ایمید	S S I Ismand	25 1815	19.65	Duntas's Mountain	43	1695	10 65
McLellan's Br. Up. 12	50357	22 91	N. S. I. Lomond. Hay Cove.	.A 2516	19, 129	Hunter's Mountain L. side Middle River	4à 27 12	1903	21 30
Churchville, 59	28663	32 31 1	Lewicz Cove,	.1 2027	21 06 21 03 11 75	Church Middle River	7:	1201	18 60
	2715	30 60	Salmon River,	61 3900	21 121	Middle River	22)	7691	20 37
			River Hourgeols, E.	92 4524	41 7/4	Up Sett. Middle River	42	2016	20 37 33 51
Frasers, Mt. North, 29	14434	16 29	River Hourgeols, W.	62 4103	28 05	Gallander Mountain	21	1003	12 32
Little Harbour. 41	2005	22 60	St l'eter's,	61 3193	22 39	W. side Middle River	48	2233	25 82
Pine Tree, 41	1326	14 95	Frambolso,	34 27891	25 85	St . Patrick Channel	37	1700	19 96
			Gut of Canso.	27 13-6	12 85 21 85 12 66	N. alde Little Narrows	22-3	697	8 63
	2330	26 27	Hocky Bay,	41 32(2)	39 31	Washabaket	3138	1765	20 25 24 83
Merigomish, West, 35	1718	19 36	Orange,	70 0947	ini un	McKinnon Interval	30	215:	24 83
Merigomish, Mid. 59	2872	32 37	Cape Auguet.	fs 4218	29 11	Grand Narrows	133 336	4114	47 47
			River Tear,	37 3372	31 27	Red Head	38	1713	19 77
Piedmont, 61	2612	29 15	Maracho.	37 3372 33 4492 42 2025	41 65	Cape Dauphin	63	1500	17 41
Avondale, 52	2586	29 11 1	l'eter's Mountain.	42 2025	24 34	Great Bras d'Or	66	2750	31 73
Barneys River, Lowr. 60	3859	43 50	Brymer,	64 6374	49 83 21 75	liig liank	55	2733)	31 (2)
Daily Dural Laur 70			Idward's	32 2346 68 12924	21 40	Boulardatle	67	2624	29 12 19 66
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Knoidart, 30	1141	12 86	Lewis Cove Road.	29) 804°	21 62		38 33	2516 1651	29 74 19 89
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		31 70	*Bash, R.I *St. Esprit,	iii 2152	20 08	English Town	ši	2815	::::::::::::::::::::::::::::::::::::::
McKenzieville, B. R. 25	757	8 53	Grand River Road,	37 1700	21 08	Munro's Point	67	2315 2415	23 20
Barneys R.(McKay's)41	1902.	10 91	·liray.	31 1553	19 16	North River	64 U4	2458	28 35
French River East, 67	35411		·Highland.	21 1027	13 41	Ect Cote	34	2344	27 06
		39 92	McNab's,	2082	13 41 23 15	Indian Brook	41;	223	20 40
French River West, 58	5050_	29 53		ECHON4.		Plaster N. Shore	43	3125	33 14
Little Harbour Mid. 29	1441	16 24	Black River.	27 9/22	8 94	Wreck Core	323	1912	21 98
MiddleRiver(Collies) 37	6801	7 66	Cape Breton,	33 1958	18 15	South Ingonish	503	508.4	59 74
						Blg Interval	48	2123	24 66 20 49
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	16139	181 98	Sable River	52 3297	S35 52	Bay St. Lawrence	63	2190 2227	25 26 25 (3)
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*River John Road. 21	1162	17 46	Little Harbour	33 2318	24 97	*Crowdle Mountain	27 27	1511	23 24
*Mountain Road, 29	13594	20 42	Et. Ragged Islands	:61 1997	21 51	New Glen	:23	1189	18 28
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*West Br.(McIntosh,)35	1750	26 30	Jordon Ferry, E.S. Jordon Falls	:::: 218G	23 LA 25 30	1 *Grant	14	713	10 97
*Black Brook, 52	2685	10 36	Jordon Falls	54 3559	25 3D	'S. side Little Narrow		1711	26 32
			West Jordon Ferry	25 1859 37 1859	18 27	Cain's Mountain	28	1859	23 18
Roger Hill, (Fork's) 34	1235	18 55	Lower Sand Point	37 1839	20 40	*Plaster	27	1656	522 833
*Brookland S. Hill, 42	2372	35 65	Shelburne	189 13476	145 16	*Big Harbour	27	1471	कर <i>श</i> कर कर
*Cariboo Island, 23	1404	21 10	Brick Town	55 3134	32 76 32 76	"I p. Seit N. River	41	2171	23 33
Al amanCamilia a Pissan 10	1101		Gunning Cove	31 2515	27 09	Smith Mountain	31	15:7)	25 &3
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*Mid. Set. Mid.River,20	9704	14 50	Black Point	43 3518 23 2308 25 2821	20 37	COUNTY O	F YAR	MOUTH.	
*Fox Brook, 26	1959~	29 45	North E. Harbour	46' 10"4	33 351	•			
			Indian Brook	20 1973	₩ ñs*	Chebogue Point	48	4200	E13 84
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		21 72	Lower Ohio Upper Ohio	24 2051 36 2476	######################################	Lower Town Central	316	16683 21650	162 72 225 74
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Marsh Head E. River, 22 St. Mary's Upr. 29 St Marys Lower, 27	1445 1483 1261	21 72 22 29 18 99	Lower Ohio Upper Ohio Middle Clyde Power's Brook	28 2001 26 2470 20 1754 17 831	19 32}	Lower Town Central Milion Overton	316	16688 21650 16204	162 72 225 74 169 23 23 47
*Marsh Head E. River, 22 *St. Mary's Upr. 29 *St Mary's Lower, 27 *McLellan's Mt. L. 39	1445 1483 1261 181124	21 72 22 29 18 99 27 21	Lower Ohlo Upper Ohlo Middle Clyde Power's Brook Bonner	24 2011 26 2470 20 1754 17 831 8807108.	19 32) 8 94	Lower Town Central Milion Overton Sanford	205 205 205 73	16685 21650 16204 2241 2415	162 72 225 74 169 23 23 47 26 40
Marsh Head E. River, 22 St. Mary's Upr. 29 St Mary's Lower, 27 McLellan's Mt. L. 39 Rig Grot, 31	1445 1483 1261	21 72 22 29 18 99 27 21 21 16	Lower Ohio Upper Ohio Middle Clyde Power's Brook	28 2001 26 2470 20 1754 17 831	19 32}	Lower Town Central Milion Overton Sanford Norwood	205 205 205 73	16688 21650 16204 2241 2476 1118	162 72 255 74 169 23 23 47 35 40 11 70
Marsh Head E. River, 22 St. Mary's Upr. 29 St Mary's Lower, 27 McLellan's Mt. L. 39 Rig Grot, 31	1445 1483 1261 181124 1607	21 72 22 29 18 99 27 21 21 16	Lower Ohio Upper Ohio Middle Clyde Power's Brook Honner Lower Clyde	28 2051 26 2476 20 1754 17 831 8xcrton, 20 1927	10 324 8 94 20 754	Lower Town Central Milion Overton Sanford Norwood Othio	316 316 305 30 73 41 91	16688 21650 16204 2241 2476 1118	162 72 235 74 169 23 23 40 11 70 50 52
*Marsh Head E. River, 22 *St. Mary's Upr. 29 *St Mary's Lower. 27 *McLellan's Mt. L. 39 *Rig Grot, 31 *Chance Harbor, 17	1445 1483 1261 181124 1607 1048	21 72 22 29 18 99 27 21 21 16 15 77	Lower Ohlo Upper Ohlo Middle Clyde Power's Brook Bonner	28 2051 26 2476 20 1754 17 831 8xcrton, 20 1927	10 324 8 94 20 754	Lower Town Central Milion Overton Sanford (Norwood Ohio Wellington	221 316 205 30 73 41 91 50	16688 21650 16204 2241 2476 1118 4854 4103	162 72 225 74 170 23 23 40 11 70 50 62 42 97
Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower. 27  McLellan's Mt. L. 39  Rig Grot, 31  Chance Harbor, 17  Bailey's Rrook, Upr. 51	1445 1483 1261 181124 1607 1048 2803	21 72 22 29 18 99 27 21 21 16 15 77 42 13	Lower Chio Upper Chio Middle Clyde Power's Brook Bonner Lower Clyde INSTRICT OF	28 2051 26 2470 20 1784 17 831 8ECTION, 20 1927 BARRINGT	10 324 8 94 20 754 'ON.	Lower Town Central Jillion Overton Sanford Norwood Ohio Wellington Hebron	221 316 205 30 73 41 91 50 115	16688 21650 16204 2241 2416 2476 1118 4854 4103 8479	162 72 255 74 170 75 75 40 11 50 95 10 50 95 88 80
Marsh Head E. River, 22 St. Mary's Upr. 29 St Mary's Lower, 27 McLellan's Mt. L. 39 Rig Grot, 31 Chance Harbor, 17 Bailey's Rrook, Upr.51 Marshy Hope, 16	1445 1483 1261 181124 1607 1048 2803 5944	21 72 22 29 18 99 27 21 21 16 15 77 42 13 8 02	Lower Chio Upper Chio Middle Clyde Power's Brook Honner Lower Clyde DISTRICT OF Lyle's Falls	28 2051 26 2476 20 1794 17 831 8ECTION, 2) 1927 HARRIENGT	10 324 8 94 20 754 'ON.	Lower Town Central Jilhon Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley	221 316 205 30 73 41 91 50 115 40	16685 21650 16204 2241 2476 1116 4854 4103 8479 2494	162 72 255 74 169 23 25 40 11 70 50 25 42 80 25 12
Marsh Head E. River, 22 St. Mary's Upr. 29 St Mary's Lower, 27 McLellan's Mt. L. 39 Rig Grot, 31 Chance Harbor, 17 Bailey's Rrook, Upr.51 Marshy Hope, 16	1445 1483 1261 181124 1607 1048 2803	21 72 22 29 18 99 27 21 21 16 15 77 42 13	Lawer Chio Upper Ohio Middle Clyde Power's Brook Honner Lower Clyde DISTRICT OF Lylo's Falls Cape Negro	28 2001 26 2476 20 1784 17 831 8ECTION, 2) 1927 BARRINGT 22 1699 29 1438	10 323 8 94 20 753 On. 14 27 12 84	Lower Town Central Milion Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley Arcadia	221 316 205 30 73 41 91 50 115 40	16685 21650 16204 2241 2476 1116 4854 4103 8479 2494	152 72 256 25 256 25 256 25 256 25 256 25 256 25 256 25 256 25 256 25
Marsh Head E. River, 22 St. Mary's Upr. 29 St Mary's Lower, 27 McLellan's Mt. L. 39 Rig Grot, 31 Chance Harbor, 17 Bailey's Rrook, Upr.51 Marshy Hope, 16 Marsh Head, B. R. 30	1445 1483 1261 181124 1607 1048 2803 5914 1604	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10	Lower Chio Upper Chio Middle Clyde Power's Brook Honnen Lower Clyde INSTRICT OF Lyle's Falls Cape Negro Cape Negro Island	25 2051 26 2176 27 1778 28 EXCTION. 29 1927 22 1598 22 1598 22 220	19 323 8 94 20 753 ON. 14 27 12 84 19 63	Lower Town Central Jilhon Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley	20 20 20 20 20 20 20 20 20 20 20 20 20 2	16685 21650 16201 2241 2410 2414 4154 4154 4159 2454 6519 2504	162 74 256 257 256 257 256 257 256 257 256 257 256 257 256 257 257 257 257 257 257 257 257 257 257
Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower, 27  McLellan's Mt. L. 39  Big Grot, 31  Chance Harbor, 17  Bailey's Rrook, Upr.51  Marshy Hope, 16  Marsh Head, B. R. 30  New Lairg, Lower, 37	1445 1483 1261 181124 1607 1048 2803 5944 1604 18164	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30	Lower Chio Upper Chio Middle Clyde Power's Brook Honder Lower Clyde DISTRICT OF Lyle's Falls Cape Negro Cape Negro Cape Tour	25 2011 56 2476 20 174 17 88 8KCTION, 5) 1927 HARRINGT 22 1539 23 1438 24 2200 43 228	19 323 8 94 20 753 ON. 14 27 12 84 19 63	Lower Town Central Jiltion Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley Arcadla Cent. Chebogue Saken Brooklyn	205 205 205 205 205 205 205 205 205 205	16685 21650 16201 2241 2410 2414 4154 4154 4159 2454 6519 2504	142 143 144 145 144 145 144 145 145 145 145 145
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower. 27  McLellan's Mt. L. 39  Rig Grot, 31  Chance Harbor, 17  Bailey's Rrook, Upr.51  Marsh Head, B. R. 30  New Lairg, Lower, 37  Wentworth Grant, L.33	1445 1483 1261 181124 1607 1048 2803 5944 1604 18164 16414	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30 24 67	Lower Chio Upper Chio Middle Clyde Power's Brook  Bonners  Lower Clyde  DISTRICT OF  Lyle's Falls Cape Negro Cape Negro Liower Fort la Tour Lower Port la Tour	25 2031 55 2475 20 174 17 88 8ECTION. 50 1927 10 1927 10 1927 12 1559 12 200 13 200 14 200 14 434 14 454 14 454	10 324 8 94 20 754 20 754 12 84 12 85 28 83 28 83 49 99	Lower Town Central Jilhon Overton Sanford Norwood Ohio Wellington Hebron Picasant Valley Arcadla Cent. Chebogne Salem Hrooklyn Sand Beach	205 205 205 205 205 205 205 205 205 205	16685 21650 16204 2241 2340 2340 4163 4163 4163 4163 4163 4163 4163 4163	11844888488888888888888888888888888888
Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower, 27  McLellan's Mt. L. 39  Big Grot, 31  Chance Harbor, 17  Bailey's Rrook, Upr.51  Marshy Hope, 16  Marsh Head, B. R. 30  New Lairg, Lower, 37	1445 1483 1261 181124 1607 1048 2803 5944 1604 18164	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30	Lower Chio Upper Chio Middle Clyde Power's Brook  Horner Lower Clyde  DISTRICT OF  Lyle's Falls Cape Negro Cape Negro Island Upper Port la Tour Lower Port la Tour Lower Port la Tour	25 200 56 2476 20 1734 17 80 800 1927 800 1927 800 1927 100 1927 100 1927 100 1927 100 1927 101	10 224 8 94 20 754 20 754 12 84 12 83 12 83 13 83 14 95 15 95	Lower Town Central Milton Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley Arcadia Cent. Chebogne Saken Brooklyn Sand Beach Burnsido	205 205 205 205 205 205 205 205 205 205	16685 21650 16204 2241 2340 2340 4163 4163 4163 4163 4163 4163 4163 4163	11844888488888888888888888888888888888
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower. 27  McLellan's Mt. L. 39  Rig Grot, 31  Chance Harbor, 17  Bailey's Rrook, Upr.51  Marshy Hope, 16  Marsh Head, B. R. 30  New Lairg, Lower, 37  Wentworth Grant, L.33  Wentworth Grant, U.19	1445 1483 1261 181124 1607 1048 2803 5914 1604 18164 16414 897	21 72 22 29 18 99 27 21 21 16 15 77 42 13 8 02 24 10 27 30 24 67 13 48	Lower Chio Upper Chio Middle Clyde Power's Brook  Lower Clyde  DISTRICT OF  Lyle's Falls Cape Negro Cape Negro Island Upper Port la Tour Lower Port la Tour Baccaro Illibert's Brook Passage	23 200 247 25 25 25 25 25 25 25 25 25 25 25 25 25	10 224 8 94 20 754 20 754 12 84 12 85 12 8	Lower Town Central Jilhon Overton Sanford Norwood Ohio Wellington Hebron Heasant Valley Arcadla Cent. Chebogne Salem Brooklyn Sand Beach Burnsido *Lower Town	205 205 205 205 205 205 205 205 205 205	16685 21650 16204 16204 2241 2118 4854 4165 2454 4165 2454 2619 2524 2619 2619 2619 2619 2619 2619 2619 2619	11844888488888888888888888888888888888
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower. 27  McLellan's Mt. L. 39  Rig Grot, 31  *Chance Harbor, 17  *Bailey's Rrook, Upr.51  *Marshy Hope, 16  *Marsh Head, B. R. 30  *New Lairg, Lower, 37  *Wentworth Grant, L.33  *Wentworth Grant, U.19  *McLellan's'Mt. Upr.28	1445 1483 1261 18112‡ 1607 1048 2803 594‡ 1604 1816‡ 1641‡ 897	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30 24 67 13 48 19 82	Lower Ohio Upper Ohio Middle Clyde Power's Brook  Lower Clyde  DISTRICT OF  Lyle's Falls Cape Negro Cape Negro Cape Negro Lower Fort la Tour Lower Fort la Tour Haccaro Hibbert's Brook Passage Doctor's Cove	25 20 154 56 247 57 154 17 88 82 150 82 150 82 150 83 140 84 150 84 150 84 150 85 634 86 635 87 635 88 6	10 224 8 94 20 754 20 754 12 84 12 85 12 8	Lower Town Central Milton Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley Arcadla Cent. Chebogne Salein Brooklyn Sand Beach Burnsido Plower Fown Hichmond	######################################	1688 21690 16204 2244 2416 1116 4834 4169 2494 2494 2494 2494 2494 2494 2494 24	147214402572213444386718 1472161184285333638678 147216118428533867884885
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower, 27  McLellan's Mt. L. 39  Rig Grot, 31  *Chance Harbor, 17  Bailey's Rrook, Upr.51  *Marshy Hope, 16  *Marsh Head, B. R. 30  *New Lairg, Lower, 37  *Wentworth Grant, U.19  McLellan's Mt. Upr.28  *Hopewell Upr. 28	1445 1483 1261 181124 1604 1048 2803 5944 1604 18164 1644 1647 13194 11525	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30 24 67 19 82 17 31	Lower Chio Upper Chio Middle Clyde Power's Brook  Lower Clyde  DISTRICT OF  Lyle's Falls Cape Negro Cape Negro Island Upper Port la Tour Haccaro Hibbert's Brook Passage Doctor's Covo Bear Point	25 20.0 56 24.0 57 24.0 58 24.0 11 80 8ECTION. 19 192.1 10	10 224 8 94 20 754 20 754 12 84 12 85 12 8	Lower Town Central Milton Overton Sanford Norwood Ohio Wellington Hebron Picasant Valley Arcadia Cent. Chebogue Salem Brooklyn Sand Beach Burnsido *Lower Town *Richmond *Bloomidd	######################################	1688 1189 1189 1189 1184 468 448 448 448 448 488 488 488 488 4	14844025223444861228 148161242522344884828 1481612425244488
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower. 27  McLellan's Mt. L. 39  Rig Grot, 31  *Chance Harbor, 17  *Bailey's Rrook, Upr.51  *Marshy Hope, 16  *Marsh Head, B. R. 30  *New Lairg, Lower, 37  *Wentworth Grant, L.33  *Wentworth Grant, U.19  *McLellan's'Mt. Upr.28	1445 1483 1261 18112‡ 1607 1048 2803 594‡ 1604 1816‡ 1641‡ 897	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30 24 67 13 48 19 82	Lower Ohio Upper Ohio Middle Clyde Power's Brook Lower Clyde DISTRICT OF Lyle's Falls Cape Negro Cape Negro Lower Port is Tour Lower Port is Tour Haccaro Hibbert's Brook Passage Doctor's Covo Bear Point Shag Harbor	25 2011 55 247 55 247 56 247 17 831 17 831 18 221 19 123 22 1539 22 1539 22 1539 23 1435 24 43 434 43 434 43 434 44 523 45 636 47 636 48 636 49 636 40 636 41 636 4	*** ** ** ** ** ** ** ** ** ** ** ** **	Lower Town Central Milton Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley Arcadia Cent. Chebogne Saken Brooklyn Sand Beach Burnsido *Lower Fown *Hicomided *Carlton	211 200 200 211 211 211 211 211 211 211	1688 21620 21620 224 224 224 224 454 454 454 454 454 454	1424446742223444844334 142424234344484 14242423444484
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower, 27  McLellan's Mt. L. 39  Rig Grot, 31  *Chance Harbor, 17  Bailey's Rrook, Upr.51  *Marshy Hope, 16  *Marsh Head, B. R. 30  *New Lairg, Lower, 37  *Wentworth Grant, U.19  McLellan's Mt. Upr.28  *Hopewell Upr. 28	1445 1483 1261 181124 1604 1048 2803 5944 1604 18164 1644 1647 13194 11525	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30 24 67 19 82 17 31	Lower Chio Upper Ohio Middle Clyde Power's Brook  Lower Clyde  DISTRICT OF  Lylo's Falls Cape Negro Cape Negro Cape Negro Hour Port la Tour Haccaro Hibbert's Brook Passage Doctor's Cove Bear Point Shag Harbor Lower Woods Harbor Lower Woods Harbor	25 200 154 155 247 55 247 55 247 57 57 152 152 152 152 152 152 152 152 152 152	**************************************	Lower Town Central Militorn Overton Sanford Norwood Ohio Wellington Hebron Pleasant Valley Arcadia Cent. Chebogue Salein Hrooklyn Sand Brach Burnsido Plower Fown Hilomond Hilomond Hilomond Carlton W. Kempkville	::::::::::::::::::::::::::::::::::::::	1688 1820 1820 1820 1820 1830 1840 1840 1840 1840 1840 1840 1840 184	kolonenenenenenenenenenenenenenenenenenen
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower, 27  McLellan's Mt. L. 39  Rig Grot, 31  *Chance Harbor, 17  Bailey's Rrook, Upr.51  *Marshy Hope, 16  *Marsh Head, B. R. 30  *New Lairg, Lower, 37  *Wentworth Grant, L.33  *Wentworth Grant, U.19  *McLellan's Mt. Upr.28  *Hopewell Upr. 28  *Barneys River East 17	1445 1483 1261 18112‡ 1607 1048 2803 591‡ 1604 1816‡ 1641‡ 897 1319‡ 1152‡ 915	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30 24 67 13 48 19 82 17 31 11 20	Lower Ohio Upper Ohio Middle Clyde Power's Brook  Lower Clyde  DISTRICT OF  Lyle's Falls Cape Negro Cape Negro Lower Port la Tour Lower Port la Tour Baccaro Hibbert's Brook Passage Doctor's Covo Bear Point Lower Woods Harbor Lower Woods Harbor Lower Woods Harbor	25 2011 55 247 55 247 56 247 17 831 17 831 18 221 18 221 1	**************************************	Lower Town Central Jilhon Overton Sanford Norwood Ohio Wellington Hebron Picasant Valley Arcalla Cent. Clebogne Salem Heooklyn Sand Beach Burnsido *Lower Town *Hichmond *Bloomided *Carlton *W. Kempkvillo *Canaan	::::::::::::::::::::::::::::::::::::::	1688 21620 21620 2241 2241 4162 4162 4162 4162 4163 4163 4163 4163 4163 4163 4163 4163	712242222222222222222222222222222222222
*Marsh Head E. River, 22  St. Mary's Upr. 29  St Mary's Lower, 27  McLellan's Mt. L. 39  Rig Grot, 31  *Chance Harbor, 17  Bailey's Rrook, Upr.51  *Marshy Hope, 16  *Marsh Head, B. R. 30  *New Lairg, Lower, 37  *Wentworth Grant, U.19  McLellan's Mt. Upr.28  *Hopewell Upr. 28	1445 1483 1261 18112‡ 1607 1048 2803 591‡ 1604 1816‡ 1641‡ 897 1319‡ 1152‡ 915	21 72 22 29 18 99 27 21 24 16 15 77 42 13 8 02 24 10 27 30 24 67 13 48 19 82 17 31 11 20	Lower Ohio Upper Ohio Middle Clyde Power's Brook  Lower Clyde  DISTRICT OF  Lyle's Falls Cape Negro Cape Negro Lower Port la Tour Lower Port la Tour Baccaro Hibbert's Brook Passage Doctor's Covo Bear Point Lower Woods Harbor Lower Woods Harbor Lower Woods Harbor	25 2011 55 247 55 247 56 247 17 831 17 831 18 221 18 221 1	**************************************	Lower Town Central Militor Overton Sanford Norwood Obio Wellington Hebron Pleasant Valley Arcadia Cent. Chebogne Salein Brooklyn Sand Brach Burnsido *Lower Town *Hichmond *Hichmond *Hichmond *W. Kempkvillo *Carlton *W. Kempkvillo *Canaan *Finkney's pt.	::::::::::::::::::::::::::::::::::::::	1688 1620 1620 1620 1620 1620 1620 1620 1620	712242222222222222222222222222222222222
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#### A CHANGING NATION.

WITHIN the last seventy-five years France has been three times a republic, three times an imperial monarchy under the Bonapartes, three times a Bourbon kingdom, once a constitutional monarchy under Lonis Philippe, and once a military dietatorship under Cavaignac. But even that statement does not show all the changes in the form of government within the period named. The first Napoleon was Consul for a term of years, then Consul for life, then Emperor. Louis Napoleon was first President, then President for life, then Emperor. Of all these various forms of governments the republies have been the shortest-lived, with the single exception of the "hundred days" of the first Napoleon, from March to June, 1815. The duration of the rule of Louis Napoleon, from 1818 to 1870, as President and Emperor, was the longest of all: and next to that was the reign of

the "constitutional king," Louis Philippe, from 1830 to 1848. of those who were sovereigns for life, or who have the centive power for a specified term of years in France, from the days of Louis XV. down to the present time, only one man, Louis XVIII, reached the end of his term. Louis XVI died on the scaffold; his republican successors were either guillotined or assassinated; the First Consul declared himself Emperor and died in exile: Charles X. was driven from the throne by the revolution of 1830, and died in exile; Louis Philippe was dethroned by the revolution of 1848, and ended his career as an exile; the provisional republic of Lamartine, which succeeded him, was a short-lived failure, succeeded by the military dictatorship of Cavaignae; then came the Presidency of Louis Napoleon, which was ended by his coup 'd ctat of December, 1851, to be followed by the "Empire" in December, 1852, and this, after a lapse of eighteen years, is followed by captivity, dethronement, and exile in 1870.

—Phil. Ledger.

We have received "Scribner's Monthly" for February. This work promises to take a high stand among American perio. dicals. The matter is at once interesting and entertaining, and must suit the taste of a large class of readers. • • • •

#### \$100,000,000,000 OF SILVER IN THE OCEAN.

A LREADY twenty years ago, Durocher and Malaguti and late Field, found traces of silver in solution in the ocean. Please found, ten years ago, silver and copper, while Field made a quantitutive analysis, and consequent estimate, of the amount of silver in the whole ocean: he found it to be more than two million tons, or over 4,000,000,000 pounds, worth about 1000,000,000 dollars. The quantity is unquestionably there, but the difficulty is in getting it out cheaply: unfortunately, by our present method, the expense of extracting would far exceed the value of the amount gained. It is the same with Philadelphia bricks. They contain gold to such an extent that every medium-sized house can be said to contain about \$30 worth of gold in its bricks; but we have no change method which permits of the extraction of this gold at a cheap method which permits of the extraction of this gold at a profit.

The existence of silver in sea-water is most easily demonstrated the old yellow metal torn from ship bottoms. This is an alloy by the old yellow metal torn from ship bottoms. This is an alloy of copper and zine, which, by prolonged contact with the ocean, becomes partly oxidized and dissolved; but by galvanic action receives in return a deposit from the more electro-negative metal dissolved in the water, on the same principle as a copper solution deposits this metal on iron with which it is brought in contact. Sheets of metal which have been on occan-going vessels for at least six years, contain always one part of silver in about three thousand parts of metal. As every year about 1,000,000 pounds of metal are used, which must be renewed every six years, there are in that length of time some 167 by 6, or 1000 pounds, of silver reduced from the ocean, if we assume that about one half of the original weight of copper and zine has disappeared in that time. This silver, however, is not utilized; but the old metal is simply melted over to make new sheets out of it.

The average depth of the Atlantic Ocean is set down at thirteen thousand four hundred feet, and that of the Pacific at eighteen thousand. On the western side of St. Helena, soundings have been made, it is said, to the depth of twenty-seven thousand feet-five miles and a quarter-without touching bottom.



### OFFICIAL NOTICES.

The number of prescribed Teaching days in the present School Term will be 120.

The Examination in March next will be on the Syllabus as heretofore. The change as stated in the manual will not be observed A. S. HUNT, Supt. of Education.

#### I. School Books-Superior School Grants.

In consequence of the increased drafts required for Teachers of Common Schools, the Council finds the funds at its disposal inadequate to meet all the expenditures contemplated by the School law. At the same time the Council is desirous of resuming the supply of Books and Apparatus to the Schools at reduced rates for another year. It is therefore ordered, with the concurrence of the Superintendent of Education, that no further sums be paid to competitors for the grant to Superior Schools, and that the sum allowed by the law for that purpose be applied towards furnishing the Schools with Books and Apparatus at the rates fixed by the order of October, 1869. This Onler is not to affect the unpaid grant of the past term ?

October 15th, 1969.

#### II. Address of Inspectors.

J. F. L. Parsons B.A.	Halifax,
Rev. D. M. Welton, M. A	
Rev. Robert Sommerville, B.A	
Rev. G. Armstrong, M.A	
G. J. Farish, M.D	Yarmouth.
Rev. W. H. Richan	
Rev. Charles Duff	
W. M. B. Lawson	Lunenburgh.
H. C. Upham	
Rev. W. S. Darrigh,	
Daniel McDonald	
Angus McIsaac	
S. R. Russell	Guysboro'.
John Y. Gunn	. Broad Cove.
Alexander Munro	. Baddeck.
Edmund Outram, M.A	Sydney.
Remi Benoit	D'Escousso.

#### III. Examination of Teachers.

"The half-yearly Examination for license to teach in the Public Schools, shall be held in March and September of each year. Examinations to begin on Tuesday the much day preceeding the last Thursday of said months."—Reg. Council Public Instruction.

Notice is hencer given, That the next semi-annual Examination will begin on

#### TUESDAY, 21st MARCH next, at 9.30 o'clock, A.M.

TUESDAY, 21st MARCH next, at 9.30 o clock, n.m.

Deputy Examiners will be strictly forbidden to admit any person to be examined who falls to be present on the day and hour named.

Candidates are required to forward to the Inspector, not later than March 1st, a written notification of their intention to be examined, and of the grade of license for which they will apply. No application can be received after this date. Candidates are to undergo Examination in the grade of which they have notified the Inspector. Seats will not be the grade of which they have notified the Inspector. Se reserved for any who do not forward notification as above. may be made for examination at one of the following stations:

Station.	Address.
Sydney	. E. Outram, Sydney.
Baddeck	. A. Munro, Boulardarie.
Margaree Forks }	John Y. Gunn, Broad Covo.
Arichat	
Guyr'soro' } Sherbrooke }	S. R. Russell, Guysboro'
Antigonish	A. McIsaac, Antigonish.
Picton	D. McDonald, New Glasgow.
Amberst	Rev. W. S. Darragh, Shinimicas,
Truro }	. H. C. Upham, Great Village.
Halifax }	. J. F. L. Parsons, 18 Albro St., Hx.
Windsor	Rev. D. M. Welton, Windsor.
Kentville,	Rev. Robt. Sommerville, Wolfville
Bridgetown	Rev. Geo. Armstrong, Bridgetown
Digby	A. W. Savary, Digby.
Yarmouth	G. J. Farish, Yarmouth.
Shelburne	Rev. W. H. Richan, Barrington.
Liverpool	. Rev Chas. Duff, Liverpool.
Lunenburg	W. M. B. Lawson, Lunenburg.

Candidates are to furnish their own writing material.

Candidates already holding license of any grade from the Council of Public Instruction, are required to give the number of the same at the Examination. All Candidates for License will be required, on presenting themselves for examination, to furnish a written certificate of good moral character, signed by a minister of Religion, or by two of Her Majesty's Justices of the Peter. These certificates are nited in the Educational Department, together with the other papers relating to the candidate's Examination.

The use of books or manuscripts will be strictly prohibited.

Persons not intending to engage as Teachers in the Public Schools will be required, on presenting themselves for Examination, to make payment to the Deputy Examiner as follows:—Grade E. 30.37; D. 30.60; C. 30.76; B. 31.00, A. 34.00. Also, teachers wishing to be re-examined in any grade for which they already hold a license, will be required to make payment to the Deputy Examiner as above.

Candidates for license of the grade who have already made an The Candidates for license of the grade who have already made an average of 75 or upwards on Grade B, are to work papers on those subjects only which are peculiar to grade A. Such Candidates are required to present themselves for examination (with their licenses or memorands) on Thursday moon. Other candidates for grade A will present themselves at the opening of the Examination on Tuesday.

An exercise in spelling will be held on Thursday afternoon at 3 o'clock, for Candidates who at any previous examination made an average of 60 or upwards in the Examination for 1st Class, and were debarred from receiving license of the 1st Class by reason of bad spelling. The list will contain a number of ordinary English words to be written at Dictation,

and any such candidate not making more than 6 errors will be granted a license of the 1st Class without further examination.

 $\bullet_\bullet \bullet$  Every person examined will be informed by mail of the result of his or her examination, as soon as decided

#### IV. Holidays and Vacations.

Notice is hereby given to Trustees of Schools and others, that Chapter XI, of the Comments and Regulations of the Council of Public Instruction. "Of Time in Session, Holidays, and Vacations" has been revised as follows:

#### HOLIDAYS.

The following Regulations have been added to Sucrion 3, of

The following Regulations have been added to Section 3, of the Chapter above-named.

a. When for any cause the Trustees of a school shall doom it desirable that any prescribed Teaching Day should be given as a Holiday, the school or schools may be kept in session on the Saturday of the week in which such Holiday has been given, and such Saturday shall be held to be in all respects a legal Teaching days.

b. When, owing to lilness, or for any other just cause, a teacher loses any number of prescribed teaching days, such teacher shall have the privilege of making up for such lost days, to the extent of six during any Term, by Teaching on Saturdays; But

c. No School shall be kept in session more than five days per week for any two consecution weeks;

d. Nor shall any Teacher teach more than five days per week for any term.

The Anniversary of the Queen's Birthday shall be a Holiday in all the Public Schools, as heretofore; also any day proclaimed as a public holiday hroughout the Province.

VACATIONS

#### VACATIONS.

The following Regulations have been made in lieu of Suction

The following Regulations have been made in lieu of SECTION 4, of the Chapter above-named:—

1. The Chapter above-named:—

1. The Chapter above-named:—

2. Instead of two vacations shall remain as heretofore, the "eight days" being held to mean week-days other than Saturdays.

2. Instead of two vacations during the summer term (a week at seed time and a fortuight at harvest) as heretofore, Thinks weeks (16 week-days other than Saturdays) shall hereafter be given as vacation during the summer term, at such time or times as the Trustees shall deedde: Nevertheless

3. In order that the due Inspection of Schools as required by law, may not be interfered with, each inspector shall have power, not with tanding anything in the foregoing Regulations, to give notice of the day or days on which he proposes to visit any school or schools in his county for the purpose of Inspection, and to require that on the day or days so named such school or schools shall be kept in session.

July 1867.

#### V. Teachers' Agreements.

The attention of Teachers and Trustees is again called to the ne attention of reacners and Trustees is again cancel to the necessity of complying with the provisions of the Law in relation to the disposal of the county Fund. It appears from the School Returns of the past Term that some teachers have in their agreements with Trustees in respect to salary, assumed all risk as to the amount to be received from the County Fund. Such proceeding is contrary to the provisions of the law and directly subversions of the law and directly subversive of a most important principle of the School system. section by the absence and irregular attendance of pupils is thereby inflicted upon the teacher, while the pecuniary rewards consequent upon a large and regular attendance of pupils at school is diverted from the people to the teacher. These results allowed to prove the growth and development of a some clearly tend to prevent the growth and development of a sentiment of responsibility and interest among all the inhabitants of each section, and thus measurably defeat the object of the whole system—the education of every child in the Province.

The Superintendent of Education, therefore, calls the attention of Tacchars and Trustops to the following.

tion of Teachers and Trustees to the following

#### NOTICE

1. The COENTY FUND is paid to the TRUSTERS of the section. The amount depends upon the number of pupils, the regularity of their attendance, and the number of prescribed teaching days on which school is open in any section during the term.

2. Teachers must engage with Trustees at a definite sum or rate. The Provincial grant is paid to teachers in addition to such specified sum.

3. The following form of agreement is in accordance with the law.

#### (FORM OF AGREEMENT.)

#### [Name of Wilness]

[Name of Teacher]
[Names of Trusteer]

4. Each inspector is instructed to report every case of illegal stipulation on the part of teachers, in reference to the County Fund.

#### VI. To Trustees of Public Schools.

1. "A relation being established between the trustees and the tend or, it becomes the duty of the former, on behalf of the people, to see that the sale in the are making sure progress, that there is life in the school both intellecture and moral, in short, that the great ends sught by the education of the young arbeing realized in the section over which they precide. All may not be able to form a nice judgment upon its intellectual aspect, but none can lail to estimate correctly its social and moral tone. While the law does not sanction the teaching in our public schools of the peculiar views which characterize the different denominations of Christians, it does instruct the teacher "to inculcate by precept and example a respect for religion and the principles of Christian morality". To the Trustees the people must look to see their desires in this respect, so far as is consonant with the spirit of the law, carried late effect by the teacher. "" Comments and Regulations" of Council of Public Instruction, p. 51, reg. 6.

2. Whereas it has been represented to the Council of Public Instruction, p.

2. Whereas it has been represented to the Council of Public Instruction that Prastees of Public Schools have, in certain cases, required pupils, on pain of fortiting school privileges, to be present during devotional exercises not approved of by their parents; and whereas such proceeding is contrary to the principles of the School Law, the following additional Regulation is made for the direction of Trustees, the better to ensure the carrying out of the spirit of the Law in this behalf:—

Onderned, That in cases where the parents or guardians of whildran in natural attendance on any public school for departs

children in actual attendance on any public school (or department) signify in writing to the Trustees their conscientious objection to any portion of such devotional exercises as may be conducted therein under the sanction of the Trustees, such devotional exercises shall either be so modified as not to offend the religious feelings of those so objecting, or shall be held immediately before the time fixed for the opening or after the time fixed for the close of the daily work of the school; and no children, whose parents or guardians signify conscientious objections thereto, shall be required to be present during such devotional exercises.

exercises.

March, 1807.

3. "The hours of teaching shall not exceed six each day, exclusive of the hour allowed at noon for recreation. Trustees, however may determine upon a less number of hours. A short recess should be allowed about the middle oboth the morning and attenuous session. In chementary departments, especially, Trustees should exercise special care that the children are not confined in the school room too long "—"Comments and Regulations" of Council of Public Instruction, p. 48, reg. 2

#### VII. The Provincial Normal School.

First Term begins on the first Wednesday in N ovember, and closes on the Friday preceding the last Thursday in March.

Second Term begins on the first Wednesday in May, and closes on the Friday preceding the last Thursday in September.

\*\* Students cannot be admitted after the first week in each term, except by the consent of the Principal

cept by the consent of the Principal.

#### FACULTY OF INSTRUCTORS.

Mothod, and the Natural Sciences:—J. B. Calrin, 1sq.
Principal of the Normal College and Model School
English Language, Geography &c.:—J. A. MacCabe, Isq.
Mathematics:—W. R. Mulholland, Esq.
Music:—Miss M. Beckwith.

MODEL SCHOOL High School Department, Mr. Edward Blanchard.
Preparatory "Mr. James Little.
Senior Elementary "Miss Faulkner. do. Junior

MISS A. LEARE. None but holders of valid licenses will be admitted to the Norma School as pupil-teachers. The license (or memo) must be presented to

School as pupil-teachers. The license (or memo) must be presented to the Principal at the opening of the Term.

Extracts from the Regulations of Council of Public Instruction:—

Before being enrolled a Student at the Normal School, every pupil-teacher shall make the following declaration, and subscribe his or her name thereto: 'I hereby declare that my object in attending the Provincial Normal School, is to qualify myself for the business of teaching; and that my intention is to teach, for a period not less than three years, in the Province of Nora Scotiu,—if adjudged a Certificate by the Examiners.' In consideration of this declaration, instruction, stationery, and the use of text books (except Classical) shall be furnished pupil teachers, free of Charge."

Persons wishing to enrol as Candidates for High School or Academy certificates must, in addition to a good knowledge of English, be thoroughly familiar with the Latin and Greek Grammars, and be able to parse with case any passage in some elementary work in each language. In Mathematics, they must be competent to solve any example in the advanced Nova Scotia Arithmetic, to work quadratic equations in Algebra, and to demonstrate any proposition in the first four books of Euclid."

#### VIII. Bond of Secretary to Trustees.

" The Secretary of the Trustees shall give a bond to ner Majesty, with "The Secretary of the Trustees shall give a bond to ner Majesty, with two surcties, in a sum at least equal to that to be raised by the section during the year, for the faithful performance of the duties of his office; and the same shall be lodged by the Trustees with the Clerk of the Peace for the county or district."—School Law of 1866, Sect. 42

This bond is to be given annually, or whenever a Secretary is appointed, and Trustees should not fail to forward it by mail or otherwise, to the Clerk of the Peace, immediately after they have appointed their Secretary. The following is a proper form of bond:—

DECOMMENCE OF NOVA SCOTIA

PROVINCE OF NOVA SCOTIA.

KNOW ALL MEN BY THISE PRESENTS, THAT WE, (name of Secretary)

as principal, and (names of sureties) as sureties, are held and firmly bound unto our Sovereign Lady Victoria, by the Grace of God, of the United Kingdom of Great Britain and Ireland, Queen, &c., in the sum of of havid money of Nova Scotia, to be paid to our said Lady the Queen, her heirs and successors, for the true payment whereof, we bind ourselves, and each of us by himself, for the whole and every part thereof, and the heirs, executors and administrators of us and each of us, firmly by these presents, realed with our Scals and dated this day of in the year of Our Lord one thousand eight hundred and and in the year of Her Majessand eight hundred and and in the year of Her Majes

ty's reign.
Whereas the said-

Now the Cordina of this Orligation is such. That if the said (name of Secretary) do and shall from time to time, and at all times hereafter, during his continuance in the said Office, well and faithfully perform all such acts and duties as do or may hereafter appertain to the said Office, by virtue of any law of this Province, in relation to the said Office of Secretary to Trustees, and shall in all respects conform to and observe all such rules, orders, and regulations as now are or may be from time to time established for or in respect of the said office, and shall well and faithfully keep all such accounts, books and papers, as are or may be required to be kept by him in his said office, and shall in all respects well and faithfully perform and execute the duties of the said office; and over to the Trustees of the said Office, he shall forthwith, on demand, hand over to the Trustees of the said School Section, or to his successor in office, all books, papers, moneys, accounts, and other property in his possession

over to the Trustees of the said School Section, or to his successor in office, all books, papers, moneys, accounts, and other property in his possession by virtue of his said office of Secretary—then the said obligation to be void—otherwise to be and continue in full force and virtue.

Signed, scaled, and delivered } [Name of Secretary] (Scals) in the presence of { [Name of Surclies] (Scals) [Name of Witness.]

WE, THE SUBSCRIBERS, two of her Majesty's Justices of the Peace for the County of—odo certify our approbation of—(name of Surclies,) within named, as Surclies for the within named—(name of Secretary,) and that they are to the best of our knowledge and belief persons of estate and property within the said County of—and of good character and credit, and sufficiently able to pay it required, the penalty of the within bond. Given under our hands this day of A. D. 186 [Names of Magistrates].

#### IX. Prescribed School Books, Maps and Apparatus.

#### MINUTE OF COUNCIL.

(Passed November 23rd, 1870.)
HEREAS the contract under which Messis. A. & W. Me
Kinlay & Co. have simulated Descentible 2. C. Kinlay & Co. have supplied Prescribed School Books and Apparatus to the Public Schools, has now expired.

And Whereas, it is deemed expedient that all Booksellers be authorized to supply the Trustees of Public Schools with the prescribed Books, Maps, Stationery, and other Apparatus for the Public Schools, at the same rates and upon the same terms, as the Council authorized in its Minute of Oct. 15, 1869—excepting

the Council authorized in its Minute of Oct. 15, 1869—excenting that diagrams, maps and globes, shall be supplied at the same rate as Book and Stationery.

It is Therefore Resolved, That when any Bookseller in this Province shall supply the Trustees of Public Schools with prescribed Books, Maps, Stationery, &c., for the use of Schools under the management of such Trustees, and may present to the Superintendent of Education the prescribed affidavit, the Superintendent is authorized to pay one-fourth of the cost of Books, &c., furnished to ordinary sections, and one-half of the cost of Books furnished to Poor Sections.

A. S. HUNT.

A. S. HUNT, Sec'y, to Coun. of Pub. Inst

In pursuance of an Order of the Council of Public Instruction,

#### NOTICE IS HEREBY GIVEN

That in ordinary School Sections, Trustees will be supplied with the prescribed School Books, Maps, Globes, Diagrams, Stationery, and at three quarters of the cost.

And that, Trustees, of poor Sections will be supplied at one half the

Trustees will carefully note &c

1.—Application must be made in the following form, and addressed to (The name of any Bookseller), who, by the above minute of Council is duly authorized to attend to all orders. Reg. 1 .-

FORM OF APPLICATION.
(Date)

To (name of the Bookseller), Halifax,

Sas,—We enclose (or forward by—) the sum of S—for, which you will please send us the following articles provided by the Superintendent of Education for use in the public schools. The parcel is to be addressed—(here gire the address in full) and forward by—(here state the name of the person, express, company, or exist; and, if by ressel, direct the parcel to be insured, if so desired.) LIST OF ARTICIES.

(Here specify distinctly the Books, Maps, &c., required, and the quantity of each sort.)
We certify that each and all of the articles named in the above list are required for use in the Public School (or Schools) under our control, and for no other purpose whatsoever; and we engage strictly to carry out

the Regulations of the Council of Public Instruction for the management and preservation of school books and apparatus

(Signed)

Trustees of School Section.

Trustees of School S. No. , in the County of School Section,

Reg. 2.—Any application not accompanied with the money will not be attended to.

attended to.

Reg. 3.—All costs and risk of transportation of parcels must be borne by Trustees, (i. c., by the Sections on behalf of which they act, and not by the Education Department)

If Trustees so direct in their application, goods (except Globes,) transported by valer will be insured for the amount paid for the same by them, at the following rates:—

Parcels shipped during the First Term of the School year, 21 per ct.

Second Term "11 per ct.

Trastees suppet during the First Term of the School year, 24 per ct.

Second Term

Second Term

14 per ct.

Trastees must forward with their application the amount required to effect the insurance, otherwise parcels will not be insured. No charge will be made for policies.

Reg 4—Applications will, as far as the articles in stock permit, receive attention in the order of their receipt

REGULATIONS

REGULATIONS

The following are the Regulations of the Council of Public Instruction with reference to all Books, Maps, and Apparatus furnished to Trustees through the Education Department

Reg 1—They shall be the property of the School Section, and not of private individuals, (except as specified in Reg 5)

Reg. 2—Any pupil, shall be entitled, free of charge, to the use of such school books as the teacher may deem necessary.

Reg 3—Any pupil shall have the privilege of taking home with him any books, &c, which, in the opinion of the teacher, may be required for study or use out of school.

any books, &c, which, in the opinion of the teacher, may be required for study or use out of school.

Reg. 4.—Pupils, or their parents or guardians, shall be responsible for any damage done to books beyond reasonable wear and tear.

Reg. 5.—Any pupil desiring it, may be allowed to purchase from the trustees the books required by him, provided the same be done without prejudice to the chaims of other pupils; the price to be, in all cases, the same as advertised in the official notice published from time to time in the Journal of Education. No pupil who has been allowed to purchase a book shall have any claim on the trustees for the free use of another of the same kind.

book shall have any claim on the trustees for the free use of another of the same kind.

Reg. 6.—Any section neglecting to provide a sufficient supply of books, maps, and apparatus, may be deprived of the public grants.

Reg. 7.—Trustees shall make such further regulations, agreeably to law, as may be necessary to ensure the careful use and preservation of books, maps, and apparatus belonging to the section.

Any section infringing in any way upon the above regulations will forfeit the privilege of purchasing books, &c., through the Education benefitment.

Department.

#### LIST OF TEXT-BOOKS, MAPS, AND APPARATUS.

BF The following list of books will be extended, and other articles of apparatus included as the fund at the disposal of the Superintendent

The prices placed opposite each Book is the three-fourth price which is to be sent to the Bookseller by the School Trustees. The one-half price may be known by taking one third from the three-fourth price.

#### PUPILS' WEEKLY RECORDS.

Weekly Record (for one Term) 11 cent each.

THE NOVA SCOTIA SERIES OF READING BOOKS.

Blook No. 1	doz.	Book No. 6\$3.16 doz. " 74.28 "  The art of Teaching Reading
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#### SINGING BOOK.

The School Song Book, 25 cents each. SPELLING BOOK.

The Spelling Book Superseded, (Eug. Ed.) \$1.58 per dez.

GRAMMAR AND COMPOSITION. English Grammar.\*

English Analysis, 74 cents each. Reid's Rudiments of Composition, 30 cents each. Bain's Rhetoric, 60 cents each.

Dalgleish Introductary to English Composition.....15 cts. .....30 cts. Advanced

\*The Council of Public Instruction has authorized the preparation of an English Graumar for use in the Public Schools, and until this work is published the Superintendent of Education will not procure any text-book on this subject. In the meantime, Trustees are authorized by the Council to use whatever Grammar they prefer. Lennio's Grammar, if followed by Analysis, will, perhaps, give as good results as any.

#### MATHEMATICS.

The Editions of Greenlead's Works now in the prescribed list, are the latest and most approved of these very excellent and gene rally used works. They are especially recommended to the at tention of Trustees and Teachers.

Enton's Con	nmercial Arithmetic	75 ct . each
Greenleafs	National Arithmetic	\$3 ··
"	New Practical "	GS "
	New Elementary "	
•6	New Primary "	15 "
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Arithmetic.—Nova Scotia Elementary Arithmetic \$1.80 doz. Nova Scotia (advanced) Arithmetic. 2.81 "	
Nova Sectia Arithmetical Table Book	Colliu's Br Maps Nova
Algebra.—Chambers' Algebra, tas far as Quadratics' 3.60 "	. N. A
Do. Do. (complete) 5.40 " Greenleaf's New Elementary Algebra 83 ets. each. Plane Geometry.—Chambers' Euclid, (including Plane Trigo-	All other
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ing, a brief treatise on Navigation, &c.)	Staples W Owens (
cal. Trigonometry, Conic Sections, Sc.) 2.70 " Mathematical Tables.—Chambers". 6.30 " Navigation.—Noric's, (an extended treatise) 2.63each	
Nuvigation.—Notic's, (an extended treatise) 2.63each Chisholm's Mathematical Scale . 187 44	`
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Nos. 1 to 11 bound in 1 vol., with full instructions on the system (for the	C.E.A.R. de l notes',
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Penholders, 29 cents per gross. Staples' Circular Pointed School Pens, 36 cents a box (1 gross.)	
Inkpowders, 60 cents per doz. Rulers, 12 in. (for pupils' use, 2 cent each.	Amicit.
Lead Pencils, 12 cents per doz India Rubber Erasers, 13 cents per doz.	Poet At
Pink Blotting Paper, 20 cents per quire.	paper,
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BB, " " " "	l vol,
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For purposes of illustration, and "Oral Lessons."  Forest Trees (12)	Evening Scl who may be
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od and varnished)	demand the the right of to do so.
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### X. Evening Schools.

ncil of Public Instruction has made the following Regulations

uncil of Public Instruction has made the following Regulations to to Evening Schools:
stees of Public Schools:
stees of Public Schools may establish in their reveral Sections schools, for the instruction of persons upwards of 13 years of age, be debarred from attendance at the Day School.
the Evening School shall be in session 24 hours; and in relation Grants, two evening sessions shall count as one day. The Precedited by the Superintendent.
the shall be kept, and a Return of the school made in the steed by the Superintendent.
The shall be furnishes and School naterials for such Evening Schools will be furnishes me rate, and subject to the same conditions as for day schools, always that no pupil of an Evening School shall have power to see use of books free of charge, but shall, on the other hand, have of purchasing from the Trustees at half-cost, if he should desire

portion of Provincial or County funds for Education, shall be ed in aid of Evening Schools, unless teachers are duly licensed. Council would greatly prefer that the Teachers of Evening ould be other than Teachers of Day Schools; but where this may cticable, it shall be legal for the Teacher of the day school to school four days in the week, and evening schools three evenweek.

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December, 1870.

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Any person not entitled to a copy free of charge, will have the Journal sent to his address, postage prepaid, on payment of fifty cents per annum, in advance.

sent to his address, postage prepaid, on payment of FIFTY CENTS per annum, in advance.

The Journal will be forwarded, postage prepaid, direct from the office of publication to Trustee-Corporations and to Teachers entitled to receive it.

Trustees will file and preserve the Journal as the property of the section they represent, to be handed over to their successors in office. Each number should be properly stitched and cut open before being read.

Teachers wishing situations will have the privilege of insertings brief advertisement (class of license, experience, references, salary, and address,) for one month, free of charge. Trustees in want of teachers will be allowed a similar privilege.

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