

America and extends far enough to the South to include New York on the Atlantic coast and San Francisco on the Pacific.

So little is really known of the geological structure of the greater part of this vast region, that only the great general divisions of formations can be indicated, and the manner in which even these are distributed over the immense unexplored regions must of course be to a great extent conjectural.

The authorities for the great northern wilderness are the observations of Sir James Richardson during his voyage in search of Sir John Franklin; the map showing the country between Lake Superior and Vancouver's Island, made by Dr. James Hector, who accompanied Capt. Palliser's Exploring Expedition in 1858-60 as Geologist; and a Geological Sketch Map presented with a paper by A. K. Isbister to the London Geological Society, May 16th, 1868, and published in the Transactions of the Society. The geology of the north-western part of the United States is taken from Hitchcock and Blake's recent Geological Map of the United States.

For the Eastern Provinces of the Dominion, Ontario, Quebec, New Brunswick, Nova Scotia and Prince Edward's Island; and for the North-eastern parts of the United States the geology is derived from the large map of the Geology of Canada by Sir Wm. E. Logan, published in 1869.

The authority for Newfoundland is the recent map by Mr. Alexander Murray, the Geologist of that Province.

The map may therefore be relied upon as nearly accurate in its representations of the southern portion, while it presents all that is known of the northern regions.

ZOOLOGY.

The memoir upon this subject by Professors Nicholson and Ellis is very judiciously adapted for popular reading, and gives a comprehensive account of those native vertebrate animals "which have some claim for mention on account of their usefulness to man, or for the injuries which they cause, or on account of peculiarities of especial interest."

Since writing it Professor Nicholson has resigned his chair at the University of Toronto, and has recently been appointed to a Professorship in Durham University, England.

HISTORY.

The Civil History of the Dominion is from the pen of Dr. H. H. Miles, formerly Professor of Mathematics in the University of Bishop's College, Lennoxville, and author of "School History of Canada" "Canada under French Regime," etc.

Of course in a work like this, an elaborate history is not called for, but Dr. Miles' memoir will be found to give a fair and impartial statement of the principal important

events which have occurred, from the earliest settlement of the country to the confederation of the various Provinces, to form the "Dominion of Canada" in 1867.

RAILWAYS.

The chapter on Railways has far exceeded the limits at first intended for it. The descriptions of the principal roads, which are given by Mr. Trout in his "Railways of Canada," have been taken, with such alterations as have been rendered necessary by changes since that work was published in 1872.

The officers of several of the newer roads have themselves furnished the descriptions of them which have been adopted.

In addition to the Railways of Canada, we have given descriptions of such roads in the United States as are more or less intimately connected with the Canadian system, forming routes from Canadian Cities to different portions of the States. It is believed that the information here given will be found quite useful to Canadian travellers and business men.

CANADIAN STEAM NAVIGATION.

The next paper is a more systematic and homogenous one, prepared by Dr. Canniff of Toronto. He has gone into the subject of Canadian Steam Navigation, even more, in the most thorough and exhaustive manner.

Commencing with the earliest introductions of steamboats he brings the history down to the present time, taking each distinct area of operations by itself, from the Upper Lakes to the ocean, and including the Ocean Steam Navigation of the Country.

The list of all the steamboats in the Dominion will be found convenient for reference.

HISTORY OF EDUCATION.

Interesting and accurate accounts of the growth and present condition of the noble Educational Institutions of Canada are given in Dr. Hodgins' Sketches, commenced on page 32, for Ontario, and afterwards extended to include the other Provinces of the Dominion.

Ample evidence is presented in these sketches that the people of Canada are not behind other enlightened nations in recognizing that the education of the youth of a country is a sure provision for its prosperity, and for its power to keep pace with other nations in the rapid progress of modern times.

CLIMATOLOGY.

Few persons could be found so bold as to attempt what has been accomplished by Lorin Blodget in the map showing the variations of temperature and the distribution of rainfall throughout the entire British Possessions in North America.

Owing to the sparseness of the stations of observation,—those of the great northern

region being confined to a few trading-posts of the Hudson's Bay Company,—and to the general want of systematic discrimination on the part of observers, even in the more populous localities, Mr. Blodget's task has been an extremely difficult one. The map and paper which he has furnished, however, will doubtless form a most valuable supplement to his great work on American Climatology, which, with his other similar researches, have given him an honorable prominence among meteorologists.

GAZETTEER.

Business men and others will find the Lists of Villages, etc., in the Provinces of Ontario and Quebec, commencing on page 183, of great utility in various ways. If, for example, goods are to be forwarded to a place of which information is needed, the tables will give the nearest railway and station, or river and landing, the town, county, population and page in the Atlas where the place is represented on the county maps.

A great deal of labor has been expended upon these tables, and they are believed to be reasonably correct. Valuable assistance in their compilation was rendered by Miss Annie Timmis, Miss I. S. Parson and Miss J. D. Wolcott. Miss Wolcott also assisted in copying and reducing plans of townships in the Province of Quebec.

ENGRAVING AND LITHOGRAPHING.

The copper plates for the maps of Ontario counties were engraved by the late Mr. D. G. Johnson, Mr. J. M. Atwood engraved the map of the Province of Ontario, and Messrs. Rolph Smith & Co., and Woodward & Grant, of Toronto, have made the additions and corrections upon the Ontario county maps made necessary by changes which have occurred while the work has been going on, such as the construction of new railways, opening of new post offices, etc., thus bringing the work up to the present time.

The map of the Dominion of Canada and that of the city of Montreal were engraved by Mr. L. E. Neuman, and those of Nova Scotia and New Brunswick by Mr. J. Scheller.

The map of Europe was furnished by G. W. C. & B. Colton & Co.

PRINTING, COLORING AND BINDING.

Nearly all the printing, both of the maps and letter press, has been done by the Desbarats Lithographing Co. The remaining part of the letter press has been printed by the Lovell Printing and Publishing Co. The paper was furnished by Alexander Buntin & Co.

The coloring is by Mr. M. Neher, and the binding by the Lovell Printing Co., all of Montreal.