

**BIENNIAL REPORT
OF THE STATE
GEOLOGIST**

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Biennial Report of the State Geologist by Various

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VARIOUS

**BIENNIAL REPORT
OF THE STATE
GEOLOGIST**

NORTH CAROLINA GEOLOGICAL SURVEY

JOSEPH HYDE PRATT, STATE GEOLOGIST.

BIENNIAL REPORT

OF THE

STATE GEOLOGIST

1905-1906



RALEIGH

E. M. UZZELL & Co., STATE PRINTERS AND BINDERS

1907

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LETTER OF TRANSMITTAL

CHAPEL HILL, N. C., January 1, 1907.

To His Excellency, GOVERNOR R. B. GLENN.

SIR:—I herewith submit the Biennial Report of the North Carolina Geological and Economic Survey for the fiscal years 1905 and 1906. It includes a brief outline of the work accomplished by the Survey, referring for more detailed information to the reports that have been published. Certain special reports, however, are given here in their entirety, as being the most practicable place to publish them. Suggestions have been made regarding further legislation in connection with the work of the Survey, and I beg to call your particular attention to these.

At the end of the report is a statement regarding the expenditures of the Survey, showing approximately the cost of each investigation taken up.

Yours obediently,

JOSEPH HYDE PRATT,
State Geologist.

BIENNIAL REPORT
OF THE
STATE GEOLOGIST

ON THE OPERATIONS OF THE NORTH CAROLINA GEOLOGICAL AND ECONOMIC
SURVEY FOR THE TWO YEARS ENDING NOVEMBER 30, 1906.

BY JOSEPH HYDE PRATT, STATE GEOLOGIST.

INTRODUCTION.

The North Carolina Geological and Economic Survey was authorized by an act of the General Assembly of 1905, as recorded in Chapter 542 of the Public Laws of North Carolina, 1905. On account of the enormous amount of work that this Department is called upon to do, and the very varied investigations that it has made and is still carrying on, it is impossible to give in this report more than a brief outline of the work accomplished and refer to the published reports which give in detail the results of all these investigations.

The objects of this Survey, as stated in the act creating it, are to include:

1. "An examination of the mineral, forest, fish and other material resources of the State.
2. "Examination of the geological formations of the State, with reference to their economic products.
3. "An examination of the road-building materials and the best method of utilizing same.
4. "An examination and classification of the soils, the forests and other physical features of the State, with special reference to their bearing upon the occupation of the people.
5. "An examination of the streams and water-powers of the State, with special reference to the development for manufacturing enterprises and the preservation of the sources of these streams through the protection of the forests.
6. "The consideration of such other scientific and economic problems as in the judgment of the Geological Board shall be deemed of value to the people of the State.