

**EXPLORATIONS AND SURVEYS FOR  
A RAILROAD ROUTE FROM THE  
MISSISSIPPI RIVER TO THE PACIFIC  
OCEAN, WAR DEPARTMENT. PART  
IV. ZOOLOGICAL REPORT; PP. 1-111**

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**VARIOUS**

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PART IV.

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EXPLORATIONS AND SURVEYS FOR A RAILROAD ROUTE FROM THE MISSISSIPPI RIVER TO THE PACIFIC OCEAN.  
WAR DEPARTMENT.

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ROUTES IN CALIFORNIA AND OREGON EXPLORED BY LIEUT. D. S. WILLIAMSON, CORPS OF TOPOGRAPHICAL  
ENGINEERS, AND LIEUT. HENRY L. ABBOT, CORPS OF TOPOGRAPHICAL ENGINEERS, IN 1855.

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## ZOOLOGICAL REPORT.

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WASHINGTON, D. C.  
1857.

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BY DR. CHARLES GIRARD.

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#### REPORT UPON THE ZOOLOGY OF THE ROUTE.

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*Report upon the Mammals.*

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BY W. G. DENNEY,

MEMBER OF THE ACADEMY OF NATURAL SCIENCES, PHILA.

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#### PREFATORY NOTE TO PART IV.

THE information collected by the expedition in the department of Natural History is embodied in this portion of the Report. It is proper to state that the credit for whatever of value the papers may contain is due, in a great measure, to the Smithsonian Institution. The outfit and instructions of the zoologist were prepared, and the specimens themselves arranged and preserved by this Institution. Under its supervision and within its walls the necessary illustrations have been executed, the determination of species made, and the reports themselves revised for publication.

The zoologist of the expedition, Dr. E. Sterling, of Cleveland, Ohio, dissolved his connection with the party on reaching Fort Dalles, in consequence of ill health. Subsequent to that time the duties of zoological collector were chiefly performed by Dr. J. S. Newberry. The latter gentleman left the party soon after Dr. Sterling, and returned, by water, from Oregon to San Francisco. In consequence of his absence and of the Indian disturbances on the route, a comparatively small zoological collection was made in the region traversed west of the Cascade Range. Mr. C. D. Anderson, however, secured and preserved several valuable specimens on this portion of our line of survey. While waiting for the arrival of the party, Dr. Newberry zealously occupied himself in making a valuable and extensive collection in the markets and the vicinity of San Francisco.

The expedition is also largely indebted to Lieutenant W. P. Trowbridge, Corps of Engineers, and to other gentlemen who have taken advantage of a long residence in the west to collect and preserve zoological specimens. Their contributions have been transported to Washington, deposited in the Smithsonian Institution, and described in the following reports with those made by the collectors of the party.

HENRY L. ABBOT,  
*Lieut. Corps of Top. Engineers.*