

ADVERTISEMENT

The work of the Bureau of American Ethnology is conducted under act of Congress "for continuing ethnologic researches among the American Indians under the direction of the Smithsonian Institution."

Two series of publications have been issued by the Bureau under authority of Congress, viz, annual reports and bulletins. The annual reports were hitherto authorized by concurrent resolution from time to time, and were published for the use of Congress and the Bureau. The present report is published by authority of section 73 of the act of Congress approved January 12, 1895, entitled "An act providing for the public printing and binding and the distribution of public documents." The publication of the series of bulletins was authorized by concurrent resolution first in 1886, and more definitely in 1888, and twenty-four numbers of this series have been issued for the use of Congress and the Bureau. In addition, the Bureau has supervised the publication of a series of quarto volumes bearing the title, "Contributions to North American Ethnology," begun in 1877 by the United States Geographical Survey of the Rocky Mountain Region. This series comprises Volumes I to VII and IX.

The above publications are distributed primarily by Congress, and the portions of the editions printed for the Bureau are used for exchange with libraries and scientific and educational institutions and with special investigators in anthropology who send their own publications regularly to the Bureau.

The exchange list of the Bureau is large, and the product of the exchange forms a valuable ethnologic library independent of the general library of the Smithsonian Institution. This library is in constant use by the Bureau collaborators, as well as by other anthropologists resident in or visiting Washington.

Most of the volumes of the annual reports and all of the volumes of the "Contributions to North American Ethnology" are out of print.

Exchanges and other contributions to the Bureau should be addressed,

*Bureau of American Ethnology,
Washington, D. C.,
U. S. A.*

FIFTEENTH ANNUAL REPORT

OF THE

BUREAU OF ETHNOLOGY

TO THE

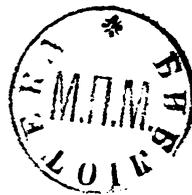
SECRETARY OF THE SMITHSONIAN INSTITUTION

1893-'94

BY

J. W. POWELL

DIRECTOR



WASHINGTON
GOVERNMENT PRINTING OFFICE
1897

A

LETTER OF TRANSMITTAL

SMITHSONIAN INSTITUTION, BUREAU OF ETHNOLOGY,
Washington, D. C., July 1, 1894.

SIR: I have the honor to submit my fifteenth annual report as Director of the Bureau of Ethnology.

The first part consists of an explanation of the plan of the Bureau and its operations during the fiscal year 1893-'94; the second part comprises a series of special papers setting forth certain results of the work of the Bureau relating to archeology and the social organization of the American Indians.

I desire to express my thanks for your earnest support and your wise counsel relating to the work under my charge.

I am, with respect, your obedient servant,



Director.

Honorable S. P. LANGLEY,
Secretary of the Smithsonian Institution.



CONTENTS

REPORT OF THE DIRECTOR

	Page
Introduction.....	XVII
Monthly reports	XX
Operations during July	XX
Operations during August.....	XXIV
Operations during September	XXVII
Operations during October	XXXII
Operations during November.....	XXXVI
Operations during December.....	XLII
Operations during January.....	XLVI
Operations during February.....	L
Operations during March.....	LIV
Operations during April.....	LVIII
Operations during May.....	LXII
Operations during June.....	LXV
Summary report.....	LXIX
Classification of the work.....	LXIX
Exploration	LXX
Archeology	LXXIII
Descriptive ethnology.....	LXXIX
Sociology.....	LXXX
Pictography and sign language.....	LXXXI
Linguistics	LXXXII
Mythology.....	LXXXV
Psychology	LXXXVII
Bibliography	LXXXVII
Publication.....	LXXXVIII
Miscellaneous.....	XCI
Financial statement.....	XCII
Characterization of accompanying papers.....	XCIII
Distribution of subjects.....	XCIII
Stone implements of the Potomac-Chesapeake tidewater province.....	XCIV
The Siouan Indians	XCVII
Siouan sociology.....	XCIX
Tusayan Katchinas	C
The repair of Casa Grande ruin	CII
On regimentation	CIV

ACCOMPANYING PAPERS

STONE IMPLEMENTS OF THE POTOMAC-CHESAPEAKE TIDEWATER PROVINCE, BY WILLIAM HENRY HOLMES

Prefatory notes	13
Chapter I—Introductory	19
The field of investigation	19
The art remains studied.....	20

VI REPORT OF THE BUREAU OF ETHNOLOGY

	Page
Chapter I—Introductory—Continued.	
Character of the stone implements	21
Materials and their distribution	21
Quarrying	23
Manufacture	24
Initial stages	24
Shaping processes	25
Chapter II—Manufacture of flaked stone implements	29
Introductory statement	29
Quarry-workshops of the District of Columbia	30
History of the research	30
Geology of the locality	31
Piny branch quarries	33
Location of the quarries	33
Operations on the site	35
Discovery and reconnoissance	35
The first trench	36
The tree pit	44
The second trench	45
The third trench	45
The fourth and fifth trenches	49
The sixth trench	50
Other Piny branch sites	51
Piny branch shops	52
General features	52
Special features	53
The quarry-shop product	53
Tools used in flaking	58
Processes of manufacture	58
Destiny of the quarry blades	62
The Dumbarton heights quarry-shops	62
Location	62
Geology of the site	63
Distribution of quarry pits	64
Trenching	64
Other Rock creek sites	66
Shop sites of the middle Potomac valley	66
Falls section of the Potomac	66
Anacostia valley	69
The tidewater Potomac	71
Sites in James river valley	72
Quarries of the highland	72
Materials quarried	72
Location and product	73
Rhyolite quarries	73
Flint quarries	77
Jasper and argillite quarries	78
Caches	78
Chapter III—Flaked stone implements	80
General features	80
Implements of leaf-blade genesis	82
Typical characters	82
Blades—blanks, cutting implements	84
Specialized blades—projectile points, etc	84
Narrow-shafted blades—perforators or drills	85
Specialized blades, etc—scrapers	85