Dhananjayarao Gadgil Library

GIPE-PUNE-000464

STUDIES IN HISTORY, ECONOMICS AND PUBLIC LAW

EDITED BY THE FACULTY OF POLITICAL SCIENCE OF COLUMBIA UNIVERSITY

Volume XC]

[Number 2]

Whole Number 206

INDIA'S DEMAND FOR TRANSPORTATION

BY

WILLIAM ERNEST WELD, Ph.D.



New York
COLUMBIA UNIVERSITY
LONGMANS, GREEN & CO., AGENTS
LONDON: P. S. KING & SON, LTD.
1920

2 INDIA'S DEMAND FOR TRANSPORTATION

STUDIES IN HISTORY, ECONOMICS AND PUBLIC LAW

EDITED BY THE FACULTY OF POLITICAL SCIENCE OF COLUMBIA UNIVERSITY

Volume XC]

[Number 2

Whole Mumber 206

INDIA'S DEMAND FOR TRANSPORTATION

WILLIAM ERNEST WELD, Ph.D.



New York
COLUMBIA UNIVERSITY
LONGMANS, GREEN & CO., AGENTS
LONDON: P. S. KING & SON, LTD.
1920

X4.2.N2 F0 464

COPYRIGHT, 1920

BY

WILLIAM ERNEST WELD

PREFACE

MUCH is being written and spoken from public platforms in India, chiefly by Indian students of economics and politics, in favor of retrenchment in railway construction. Some decry the breaking up of the village unit and the consequent destruction of the old domestic industries. Others feel that railways have made possible the exportation of wheat and so have contributed to the rise in the prices of wheat in India. The more thoughtful of the conservatives admit that railways have been a blessing to the country, but are of the opinion that the expenditure of funds for railways should be greatly decreased and the money turned into other channels; e. a., expended for education or irrigation, or to subsize other industries. writer, during his residence of more than eight years in India, has often felt that many of those who oppose the expansion of the transportation system, have done so without a comprehensive understanding of the country's need. It was with this thought in mind, and at the suggestion of H. Stanley Jevons, University Professor of Economics at Allahabad, that this study was undertaken.

The actual writing of the dissertation was not begun until the writer returned to America and entered Columbia University. He is greatly indebted to Prof. E. R. A. Seligman for his encouragement and valuable suggestions during the entire course of the preparation of this study. He also desires to express his sincere thanks to Prof. H. R. Seager and to Prof. T. W. Van Metre for reading the manuscript and for helpful criticism. Mr. Charles W. Reid, of 425]

5

the Highways Transport Committee of the Council of National Defense, has very kindly placed the files and the bulletins relating to motor transport in the United States at the writer's disposal. The help, both direct and indirect, which the writer has received from his wife is the cause of his greatest indebtedness.

CONTENTS

Introduction	
Need for extension of the means of transportation India's poverty and the possible causes Undeveloped resources of India	10
The backwardness of education	18 20
CHAPTER I	
THE ECONOMICS OF TRANSPORTATION	
Origin of the need for transportation Elasticity of the demand for transportation / Effects of bulk and weight of goods upon demand for transport	24
Distance and the demand for transportation	
Perishable commodities and the demand for transportation	34
The quantity demand for transportation	39
Demand for transportation of passengers	44 45
CHAPTER II	
HISTORICAL SKETCH OF THE MEANS OF TRANSPORTATION IN IN	DIA
Waterways	58
CHAPTER III	
Some Effects of the Past Development of the Means of Transportation upon the Economic Life of the People of India	,
The beginning of the dissolution of the village as the economic unit The equalization of prices	80 86 91
The beginning of large-scale production	96
427] 7	

/ CHAPTER IV												
India's NEED FOR TRANSPORTATION												
Poverty and the demand for transportation Character of country's produce and the demand for transport Conditions on which India's quantity demand for transport depend India's demand for passenger transportation Lardner's Law of Squares												
CHAPTER V												
METHODS OF MEETING INDIA'S NEED FOR TRANSPORTATION												

CONTENTS

[428

8

CONTENTS

ı.	Prison I	METHODS I	n Ne	w Y	ORK	ST.	ATE	; 	Ph	ilif	K	lei	n,	Ph	.Z	۶.	PAGE
2.	India's	DEMAND	FOR	Ti	RANS	POR	TA7	rio!	V	·W	ill	ian	n .	Er	nc.	st	
	Weld,	Ph.D															421

Columbia University in the City of Pew York

The University includes the following:

Columbia College, founded in 1754, and Barnard College, founded in 1889, offering to men and women, respectively, programs of study which may be begun either in September or February and which lead normally in from three to four years to the degree of Bachelor of Arts. The program of study in Columbia College makes it possible for a well qualified student to satisfy the requirements for both the bachelor's degree and a professional degree in law, medicine, technology or education in five to eight years according to the course.

The Faculties of Political Science, Philosophy and Pure Science, offering advanced programs of study and investigation leading to the degrees of Master of Arts and Doctor of Philosophy.

The Professional Schools of

Law, established in 1858, offering courses of three years leading to the degree of Bachelor of Laws and of one year leading to the degree of Master of Laws.

Medicine. The College of Physicians and Surgeons, established in 1807, offering two-year courses leading to the degree of Bachelor of Science and five-year courses leading to the degree of Doctor of Medicine.

Mines, founded in 1863, offering courses of three years leading to the degrees of Engineer of Mines and of Metallurgical Engineer.

Chemistry and Engineering, set spart from School of Mines in 1806, offering three-year courses leading to degrees in Civil, Electrical, Mechanical and Chemical Engineering.

Teachers College, founded in 1888, offering in its School of Education courses in the history and philosophy of education and the theory and practice of teaching, leading to appropriate diplomas and the degree of Bachelor of Science in Education; and in its School of Practical Arts founded in 1912, courses in household and industrial arts, fine arts, music, and physical training leading to the degree of Bachelor of Science in Practical Arts. All the courses in Teachers College are open to men and women. These faculties offer courses leading to the degree of Master of Arts and Master of Science.

Architecture, offering a program of indeterminate length leading to the degree of Bachelor of Architecture and Master of Science.

Journalism, founded in 1912, offering a two-year course leading to the degree of Bachelor of Literature in Journalism. The regular requirement for admission to this course is two years of college work.

Business, founded in 1916, offering two and three-year courses in business training leading to appropriate degrees.

Dentistry, founded in 1917, offering four-year courses leading to appropriate degrees.

Pharmacy. The New York College of Pharmacy, founded in 1821, offering courses of two, three and four years leading to appropriate certificates and degrees.

In the Summer Session the University offers courses giving both general and professional training which may be taken either with or without regard to an academic degree or diploma.

Through its system of Extension Teaching the University offers many courses of study to persons unable otherwise to receive scademic training.

The Institute of Arts and Sciences provides lectures, concerts, readings and recitals—approximately two hundred and fifty in number—in a single season.

The price of the University Catalogue is twenty-five cents postpaid. Detailed information regarding the work in any department will be furnished without charge upon application to the Secretary of Columbia University, New York, N. Y.

Foreign Rights and Interests in China

BY

W. W. WILLOUGHBY

Professor of Political Science at the Johns Hopkins University Constitutional Adviser to the Chinese Republic, 1916-1917

Ready soon

Approximately 550 pages, 8vo. \$6.00

This volume provides a statement of the rights of foreigners and the interests of foreign States in China as recognized in treaties with or relating to China or in other documents of an official or quasi-official character. Viewed from the standpoint of China, the volume exhibits the limitations under which the Government of that country is compelled to act with regard not only to matters of international obligation, but to matters which, in countries more fortunately circumstanced, one of purely domestic concern. It is believed that the work will be found indispensable to students of Far Eastern international politics as well as to those desiring to obtain an understanding of the very complicated domestic situation in China.

The Johns Hopkins Press
Baltimore, Maryland

Columbia University Press Publications

- CONSTITUTIONAL GOVERNMENT IN THE UNITED STATES. By Woodrow Wilson, LL.D., President of the United States. Pp. vii + 236.
- OUR CHIEF MAGISTRATE AND HIS POWERS. By WILLIAM HOWARD TAFT, Twenty-seventh President of the United States. Pp. vii + 165.
- CONSTITUTIONAL POWER AND WORLD AFFAIRS. By GEORGE SUTHERLAND, former United States Senator from Utah. Pp. vii + 202.
- WORLD ORGANIZATION AS AFFECTED BY THE NATURE OF THE MODERN STATE. By DAVID JAYNE HILL, LL.D., late American Ambassador to Germany. Pp. ix + 214. Reprinted with new Preface.
- THE BUSINESS OF CONGRESS. By SAMUEL W. McCall, Governor of Massachusetts. Pp. vii + 215.
- THE COST OF OUR NATIONAL GOVERNMENT. By HENRY JONES FORD, Professor of Politics in Princeton University. Pp. xv + 147.
- POLITICAL PROBLEMS OF AMERICAN DEVELOPMENT. By ALBERT SHAW, LL.D., Editor of the Review of Reviews. Pp. vii + 268.
- THE PRINCIPLES OF POLITICS FROM THE VIEWPOINT OF THE AMERICAN CITIZEN. By JEREMIAH W. JENKS, LL.D., Professor of Government and Public Administration in New York University. Pp. 2viii + 187.
- THE NATURE AND SOURCES OF THE LAW. By JOHN CHIPMAN GRAY, LL.D., late Royall Professor of Law in Harvard University. Pp. 211 + 332.
- THE GENIUS OF THE COMMON LAW. By the Right Honorable Sir Fran-ERICK POLLOCK, Bart., D.C.L., LL.D. Pp. vii + 141.
- THOMAS JEFFERSON. His Permanent Influence on American Institutions.

 By John Sharp Williams, U. S. Senator from Mississippi. Pp. is + 330.
- THE MECHANICS OF LAW MAKING. By COURTENAY ILBERT, G. C. B., Clerk of the House of Commons. Pp. viii + 209.
- LAW AND ITS ADMINISTRATION. By HARLAN F. STONE, LL.D., Dean of the School of Law, Columbia University. Pp. vii + 232.
- AMERICAN CITY PROGRESS AND THE LAW. By Howard Lee Mc-Bain, Ph.D., Eaton Professor of Municipal Science and Administration, Columbia University. Pp. viii + 269.

Uniformly bound, 12mo, cloth. Each, \$1.50 act.

- THE LAW AND THE PRACTICE OF MUNICIPAL HOME RULE. By How-ARD LEE McBAIN, Eaton Professor of Municipal Science and Administration in Columbia University. 8vo, cloth, pp. xviii + 724. Price, \$5.00 net.
- STUDIES IN SOUTHERN HISTORY AND POLITICS. Inscribed to William Archibald Dunning, Lieber Professor of History and Political Philosophy in Columbia University, by his former pupils, the authors. A collection of fifteen essays. 8vo, cloth, pp. viii + 294. \$2.50 net.
- THE ENGLISH-SPEAKING BROTHERHOOD AND THE LEAGUE OF NATIONS. By SIR CHARLES WALSTON (WALDSTEIN), M. A., Litt. D., formerly Professor in the University of Cambridge. 12mo, boards, pp. 8xiii-224, \$1.60 net.

COLUMBIA UNIVERSITY PRESS

LEMCKE & BUECHNER, Agents

30-32 East Twentieth Street, New York City

LONGMANS, GREEN & CO.

THE VILLAGE LABOURER, 1760-1832: A Study in the Government of England before the Reform Bill. By J. L. and Barbara Hammond, 8vo, \$3.25

"There is not a chapter in Mr. and Mrs. Hammond's book which fails to throw new light on enclosures or on the administration of the poor laws and the game laws, and on the economic and social conditions of the period. . A few other studies of governing class rule before 1867 as searchingly analytical as Mr. and Mrs. Hammond's book will do much to weaken this tradition and to make imperative much recasting of English History from 1688."

-Am. Political Science Review.

THE TOWN LABOURER, 1760-1832: The New Civilization. By J. L. Hammond and Barbara Hammond, Authors of "The Village Labourer, 1760-1832: A Study in the Government of England before the Reform Bill." 8vo. \$3.50 met.

This volume is the first part of a study of the Industrial Revolution. It will be completed by another volume giving in detail the history of the workpeople in various industries, with a full account of the Luddite rising and of the disturbances connected with the adventures of the agent provocateur Oliver.

"Never has the story been told with such masterly precision, or with such illuminating reference to the original sources of the time, as in this book . . . The perspective and proportion are so perfect that the life of a whole era, analyzed searchingly and profoundly, passes before your eyes as you read."—The Dial.

"A brilliant and important achievement. 'The Town Labourer' will rank as an indispensable source of revelation and of inspiration."—The Nation (London).

BLACK AND WHITE IN THE SOUTHERN STATES: A Study of the Race Problem in the United States from a South African Point of View. By Maurice S. Evans. 8vo. \$2.50 net.

"This is a sequel to the author's earlier volume, BLACK AND WHITE IN SOUTH EAST AFRICA. It is a product of the same searching insight and the same candid observation."—American Journal of Sociology.

BLACK AND WHITE IN SOUTH EAST AFRICA: A Study in Sociology. By Maurice S. Evane. 8vo. \$2.50 net.

"An exceedingly lucid statement of the arduous and intricate problem which lies before the people of South Africa in dealing with the native races."

— The Nation.

Second Edition, brought up to the Spring of 1919.

THE CONTROL OF THE DRINK TRADE IN BRITAIN. A Contribution to National Efficiency during the Great War, 1915-1918. By Henry Carter. With Illustrations, Charts, and Diagrams, and a new Preface by Lord D'Abernon 810. \$1.75 net.

His Grace the Archbishop of Canterbury says:

"The whole position concerning intemperance has been fundamentally altered by the war. I would very earnestly and seriously ask any who remain unconvinced, either as to the necessity or the practicability of such changes, to read one book—sane, cool, lucid, and absolutely well-informed—'The Control of the Drink Trade.'"

Fourth Avenue and 30th Street, NEW YORK

LONGMANS, GREEN & CO.

THE ADMINISTRATION OF INDUSTRIAL ENTERPRISES.
With Special Reference to Factory Practice. By EDWARD D.
JONES, Ph.D., Professor of Commerce and Industry, University of Michigan. With Illustrations and Bibliographies. Large 12mo. \$2.25
net. (Fifth Impression).

"To the head of any industrial organization, and especially to the executives of those which have not long been created and are still faced with many of the problems discussed in the volume, it should be particularly useful."—Wall Street Yournal.

- THE WORKS MANAGER TO-DAY: An Address Prepared for a Series of Private Gatherings of Works Managers. By SIDNEY WEBB, Professor of Public Administration in the University of London (School of Economic and Political Science). Crown 8vo. \$1.25 met. An examination, in easy lecture form, of the problems of management of any considerable industrial enterprise, especially in relation to the organization of labor, methods of remuneration, "Scientific Management" and "Welfare Work," piecework and premium bonus systems, restriction of output and increase of production, the maintenance of discipline, etc.
- THE ECONOMIC HISTORY OF THE UNITED STATES. By ERREST LUDLOW BOGART, Ph.D., Associate Professor of Economics in the University of Illinois. With 26 Maps and 95 Illustrations. Crown 8vo. \$2 00.
 - READINGS IN THE ECONOMIC HISTORY OF THE UNITED STATES. By E. L. BOGART, Ph.D., and C. M. THOMPSON, Ph.D.,

of the University of Illinois. 8vo. \$3.20.

A source book which collects in one volume contemporary material illustrating the most important economic developments in the country's history. The material is arranged as follows: Eight chapters deal with the United States before 1808; nine with the period of 1808-1860; and six with the period since 1860.

RAILROADS. In two volumes. By WILLIAM Z. RIPLEY, Ph.D. Nathaniel Ropes Professor of Economics in Harvard University, author of "Railway Problems," etc.

Vol. I. RATES AND REGULATION, with 41 maps and diagrams. 8vo. \$3 50 net.

Vol. II. FINANCE AND ORGANIZATION, with 59 maps and diagrams. 8vo. \$3.50 net.

- PRINCIPLES OF ECONOMICS: with Special Reference to American Conditions. By EDWIN R. A. SELIGMAN, LL.D. McVickar Professor of Political Economy in Columbia University. Eighth Edition, Revised (1919). \$2.75 net.
- UNEMPLOYMENT: A Problem of Industry. By W. H. BEVEREGE, Stowell Civil Law Fellow of University College, Oxford, 1902-1906; formerly sub-Warden of Toynbee Hall and Member of the Central (Unemployed) Body for London. 8vo. \$3,00 net.

Fourth Avenue and 30th Street, NEW YORK

The Academy of Political Science in the City of New York

The Academy of Political Science, founded in 1880, is composed of men and women interested in political, economic and social questions. Members receive the Political Science Quarterly and the Proceedings of the Academy, and are entitled to admission to all meetings, lectures and receptions under the auspices of the Academy. The annual dues are five dollars. Address the Secretary of the Academy of Political Science, Columbia University, New York.

POLITICAL SCIENCE QUARTERLY

Managing Editor ROBERT LIVINGSTON SCHUYLER

The Quarterly is devoted to the historical, statistical and comparative study of politics, economics and public law. Every article is signed and expresses simply the personal view of the writer. Each issue contains scholarly reviews and brief book notes and a valuable Record of Political Events throughout the world is printed as a supplement to the September issue. Address editorial communications to the Political Science Quarterly; business communications to the Academy of Political Science, Columbia University, New York.

PROCEEDINGS OF THE ACADEMY OF POLITICAL SCIENCE

The Proceedings are issued by the Academy as a record of its activities and as a means of giving detailed treatment to special subjects of importance. Recent issues are: The Foreign Relations of the United States, 454 pp., \$1.50. Military Training: Compulsory or Volunteer, 262 pp., \$1.50. Labor Disputes and Public Service Corporations, \$1.50. The League of Nations Covenant, \$1.50. Railroad Legislation, 280 pp., \$1.50. A full list of the numbers thus far issued will be sent on request. Address Academy of Political Science, Columbia University, New York

Studies in History, Economics and Public Law edited by

Faculty of Political Science of Columbia University

VOLUME I, 1891-92. 2nd Ed., 1897. 396 pp. Price, cloth, \$3.50.

- 1. The Divorce Problem. A Study in Statistics.

 By Walter F. Willcox, Ph.D. Price, 73 cents.
- 2. The History of Tariff Administration in the United States, from Colonial Times to the McKiniey Administrative Bill.

 By John Dean Goss, Ph.D. Price, \$1.00.
- 8. History of Municipal Land Ownership on Manhattan Island.
 By George Assetus Black, Ph.D. Price, \$1.00.
- 4. Financial History of Massachusetts.

 By Charles H. J. Douglas, Ph.D. Price, \$1.00.

VOLUME II, 1892-93. (See note on last page.)

- 1. [5] The Economics of the Russian Village.
 By Isaac A. Houswich, Ph.D. (Out of print).
- 2. [6] Bankruptcy. A Study in Comparative Legislation.

 By Sanual W. Dusscons, Jr., Fh.D. (Vot sold separately)

 8. [7] Special Assessments; A Study in Municipal Finance.

 By Victor Rosswatz, Ph.D. becoud Edition, 1898. Price, \$1.00.

VOLUME III, 1893. 465 pp. (See note on last page.)

- 1. [8] *History of Elections in American Colonies.

 By CONTLAND F. BISMOP, Ph.D. (Not sold separately.)
- 8. [9] The Commercial Policy of England toward the American Colonies.

 By Gronge L. Berg, A. M. (Ont of print.)

VOLUME IV, 1893-94. 438 pp. (See note on last page.)

- 1. [10] Financial History of Virginia. By WILLIAM Z. RIPLEY, Ph. D. (Not sold reparately.)
 2. [11] The Inheritance Tax. By Max West, Ph.D. Second Edition, 1908. Price. \$2.00'
 3. [12] History of Taxation in Vermont. By Fasderick A. Wood, Ph.D. (Out of priest).

VOLUME V, 1895-96. 493 pp. Price, cloth. \$3.50.

- 1. [18] Double Taxation in the United States.

 By Francis Walken, Ph.D. Price, \$1.00.
- 2. [15] Dunied Lucian By Francis Washing, 2015.
 2. [14] The Separation of Governmental Powers.
 3. [15] Municipal Government in Michigan and Ohio.

 By Dates F. Wilcox, Ph.D. Price, \$1.00.

 By Dates F. Wilcox, Ph.D. Price, \$1.00.

VOLUME VI, 1896. 601 pp. Price, cloth, \$4.50; Paper covers, \$4.00.

[16] History of Proprietary Government in Pennsylvania.

By William Robert Shephers, Ph.D.

VOLUME VII, 1896. 512 pp. Price, cloth, \$3.50.

- 1. [17] History of the Transition from Provincial to Commonwealth Government in Massachusetts. By Haray A. Cushing, Ph.D. Proc. \$2.00.

 \$. [18] Speculation on the Stock and Produce Exchanges of the United States By Haray Cassey Emery, Ph.D. Proc. \$1.50.

VOLUME VIII, 1896-98. 551 pp. Price, cloth, \$4.00.

- 1. [19] The Struggle between President Johnson and Congress over Reconstruction.

 5. [20] Recent Centralizing Tendencies in State Educational Administration.

 By WILLIAM CLASSEC WESTER, Ph.D. Proc., 75 cons.

 5. [31] The Abolition of Privateering and the Declaration of Parls.

 By Farce R. Stars, L.L. B., Ph.D. Price, 51 co.

 4. [22] Public Administration in Massachusetts. The Relation of Central to Local Activity.

 By Rosset Harvet Weitter, Ph.D. Price, 51 co.

VOLUME IX. 1897-98, 617 pp. Price, cloth, \$4.00.

- 1. [23] *English Local Government of To-day. A Study of the Relations of Central and Local Government. By Mild Roy Malthis, Ph.D. Price, pion. S. [24] German Wage Theories. A History of their Development. By James W. Csook, Ph.D. Price, \$1.00.
 S. [25] The Centralization of Administration in New York State.
 By John Archiald Fallies, Ph.D. Price, \$1.00.

```
[26] Sympathetic Strikes and Sympathetic Lockonts.

By Figs S. Hall, Ph.D. Price, $1.00

[27] *Rhode Island and the Formation of the Union.

By Figs K. Greene Barrs, Ph.D. Price, $1.00

Ey Figs K. Greene Barry, Ph.D. Price, $1.00

Ey Figs K. Greene Barry, Ph.D. Price, Ph.D. Price, Ph.D. Price, Ph.D. Price, Ph.D. Price, Ph.D. Price, Ph
 [28]. Centralized Administration of Liquor Laws in the American Commonwealths.

By Clement Moore Lacry Sites, Ph.D. Price, pr.co.
    VOLUME XI, 1899. 495 pp. Price, cloth, 4.00; paper covers, $3.50.
9) The Growth of Cities.
                                                                                                                         By Adna Fereiw Weber Ph.D.
                    VOLUME XII, 1899-1900. 586 pp. Price, cloth, $4.00.
 [80] History and Functions of Central Labor Unions.

By William Maxwall Burks, Ph.D. Price, $1.00.
 [31.] Colonial Immigration Laws.

By FDWARD EMERSON PROPER, A.M. Price, 75 cents.

[32] History of Military Pension Legislation in the United States.

By WILLIAM HENRY GLASSON, Ph.D. Price, $1.00.
 [33] History of the Theory of Sovereignty Since Rousseau. By Charles E. Miskriam, Jr., Ph.D. Price, $1.50.
                         VOLUME XIII, 1901. 570 pp. Price, cloth, $4.00.
 [34] The Legal Property Relations of Married Parties.
By issues Lous, Ph.D. Price, $1.50.
 [35] Political Nativism in New York State.

By Louis Dow Scisco, Ph.D. Price, $2.00.

By Edwin C. Woolley, Ph.D. Price, $1.00.
                   VOLUME XIV, 1901-1902. 576 pp. Price, cloth, $4.00.
 [37] Loyalism in New York during the American Revolution.

By ALEXANDER CLARENCE FLICK, Ph.D. Price, $6.00.

[38] The Economic Theory of Risk and Insurance.

By ALLAN H. WILLETT, Ph.D. Price, $1.50.
 [39] The Eastern Question: A Study in Diplomacy.

By STEPHEN P. H. Duggan, Ph.D. Price, $1.00.
VOLUME XV, 1902. 427 pp. Price, cloth, $3.50; Paper covers, $3.00.
0] Crime in Its Relation to Social Progress. By ARTHUR CLEVELAND HALL, Ph.D.
                   VOLUME XVI, 1302-1903. 547 pp. Price, cloth, $4.00.
 [41] The Past and Present of Commerce in Japan.

By Yatako Kinosita, Ph.D. Price, $1.50.
 [42] The Employment of Women in the Clothing Trade.
By Mann Huan Willer, Ph.D. Price, $1.50.
 [43] The Centralization of Administration in Ohio.

By Samuel P. Orth, Ph.D. Price, $1.50.
                       VOLUME XVII, 1903. 635 pp. Price, cloth, $4.00.
[44] *Centralizing Tendencies in the Administration of Indiana.

By William A. Rawles, Ph.D. Price, $2.50.

[15] Principles of Justice in Taxation. By Stepmen F. Weston, Ph.D. Price, $2.00.
                       VOLUME XVIII, 1903. 753 pp. Price, cloth, $4.50.
[46] The Administration of Iowa. By Harold Martin Bowman, Ph.D. Price, $1.50.
                                                                                               By ROBERT P. SHEPHERD, Ph.D. Price, $1.50.
 [47] Turgot and the Six Edicts.
 [48] Hanover and Prussia, 1795-1808.
                                                                                                By GUY STANTON FORD, Ph.D. Price, $0.00.
                   VOLUME XIX, 1903-1905. 588 pp. Price, cloth, $4.00.
 [49] Josiah Tucker, Economist. By Walter Frank Clark Ph.D. Price, $1.50. [50] History and criticism of the Labor Theory of Value in English Political Economy. By Albert C. Weitzer, Ph.D. Price, $1.50. [51] Trade Unions and the Law in New York. By Grorge Gorham Groat, Ph.D. Price, $1.50.
                           VOLUME XX, 1904. 514 pp. Price, cloth. $3.50.
[58] The Office of the Justice of the Peace in England.

By Charles Austin Beard, Ph.D. Price, 11.50.

[58] A History of Military Government in Newly Acquired Territory of the United States.

By David Y. Thomas, Ph.D. Price, 32.00.
                         VOLUME XXI, 1904. 746 pp. Price, cloth, $4.50.
```

[54] *Treaties, their Making and Enforcement.

By Samus B. Crandals, Ph.D. Price, \$1.50.

[55] The Sociology of a New York City Block.

By Thomas Jesse Jones, Ph.D. Price, \$1.00.

[56] Pre-Malthusian Dootrines of Popu ation.

By Charles E. Stangeland, Ph.D. Price, \$2.50.

VOLUME X, 1898-99. 409 pp. Price, cloth, \$3.50.

```
1. [58] The Economics of Land Tenure in Georgia.

By Eron Marvin Banks, Ph.D. Price, first invision redence.
2. [59] Mistake in Contract. A Study in Comparative Jurisprudence.
By Lowis C. McKrao, Ph.D. Proc. $1.00
3. [60] Combination in the Mining Industry.
4. [61] The English Craft Guilds and the Government.

By Stalla Ksamss. Ph.D. Price, $1.00
               VOLUME XXIV, 1905. 521 pp. Price, cloth, $4.00.
1. [62] The Place of Magic in the Intellectual History of Enrope.

By Lvan Thomanika, I'a.D.

Price, place
2. [63] The Ecclesiastical Edicts of the Theodordan Corte.

By William K. Boyd. Ph.D.

Price, place

By William K. Boyd. Ph.D.
8. [64] *The International Position of Japan as a Great Power.
By Snji G. Hishiva, Ph.D. Price, $1.00
             VOLUME XXV, 1906-07. 600 pp. (Sold only in Sets.)
1. [65] *Municipal Control of Public Utilities.

By O. L. Pour, Ph. D. (Not said separately
2. [66] The Budget in the American Commonwealths.

By Eucana E. Agons, Ph.D. Price, 51 y

8. [67] The Finances of Cleveland.

By Charles C. Williamson, Ph.D. Price, 50.00
VOLUME XXVI, 1997. 559 pp. Prics, cloth, $4.00.
9. [69] Luther's Table Talk.
3. [70] The Tobacco Industry in the United States.
By Mayan Jacobstus, Ph.D. Price, $1.9
4. [71] Social Democracy and Population.

Ry ALVAN A. TENNEY, Ph.D. Price, 75 cont
               VOLUME XXVII, 1907. 578 pp. Price, cloth, $4.00.
1. [72] The Economic Policy of Robert Walpole.

By Nozzis A. Brisco, Ph.D. Price, $1.5
2. [78] The United States Steel Corporation.

By ARRAHAM BERGLUND, Ph.D. Price, $1.5
8. [74] The Taxation of Corporations in Massachusette.
By Hazat G. Friedman, Ph.D. Price, $1.5
              VOLUME XXVIII, 1907. 564 pp. Price, cloth, $4.00.
1. [75] DeWitt Clinton and the Origin of the Spoils System in New York.

By Howard Las McBain, Philo. Price, $1.3
2. [76] The Development of the Legislature of Colonial Virginia.
By Elman I. Miller, Ph. D. Price, $1.5
8. [77] The Distribution of Ownership.

By JORDER HARDING UNDERWOOD, Ph.D. Price, $1.9
               VOLUME XXIX, 1908. 703 pp. Price, cloth, $4.50.
1. [78] Early New England Towns. By Asse Buse MacLeas, Fh.D. Price, 51.5
2. [79] New Hampshire as a Royal Province.
By William H. Fet, Ph.D. Price, 53.6
  VOLUME XXX, 1908. 712 pp. Price, cloth, $4.50; Paper covers, $4.00.
[80] The Province of New Jersey, 1664-1788.
                                                                     By EDWIN P. TANKER, Ph.1
```

VOLUME XXXI, 1908. 575 pp. Price, cloth, \$4.00.

1. [81] Private Freight Cars and American Raliroads.

2. [82] Ohio before 1850.

By Rosser E. Chaddock, Ph.D. Price, \$1.9

3. [83] Consanguineous Marriages in the American Population.

By Googe B. Louis Arria, Ph.D. Price, 7, cont.

4. [84] Adolphe Quetelet as Statistician.

By Fasser H. Harkins, Ph.D. Price, \$1.5

VOLUME XXXII, 1908. 705 pp. Price, cloth, 4.50; paper covers, \$4.00. 85] The Enforcement of the Statutes of Laborers.

By Berina Haven Potham, Ph.1

VOLUME XXXIII, 1908-1909. 635 pp. Price, cloth, \$4.50.

1. [86] Factory Legislation in Maine.

By E. Stace Whith, A.B. Price, \$1.8

2. [87] *Psychological Interpretations of Society.

By Michael M. Dave, Jr., Ph.D. Price, \$1.8

8. [88] *An Introduction to the Sources relating to the Germanic Invasions By Cantons J. P. Haves, Ph.D. Price, \$1.8

By Cantons J. P. Haves, Ph.D. Price, \$1.8

VOLUME XXII. 1905. 520 pp. Price, cloth, \$3.50; paper covers. \$3.00. [57] The Historical Development of the Poor Law of Connecticut. By Adward W. Caper, Ph. E VOLUME XXIII, 1905. 594 pp. Price, cloth, \$4.00.

VOLUME XXXIV, 1909. 628 pp. Price, cloth, \$4.50.

- [89] Transportation and Industrial Development in the Middle West,
 By William F. Gephart, Ph.D. Price, page.
- [90] Social Reform and the Reformation.

 By Jacob Salwyn Schapiro, Ph.D. Price, \$1.35.
- By PHILIP A. PARSONS, Ph.D. Price, \$1.50. [91] Responsibility for Crime.

VOLUME XXXV, 1909. 568 pp. Price, cloth, \$4.50.

- [93] The Conflict over the Judicial Powers in the United States to 1870. By Charles Grove Haines, Ph.D. Price, \$1.50. [93] A Study of the Population of Manhattanville, By Howard Brown Woolston, Ph.D. Price, \$1.25.
- [94] Divorce: A Study in Social Causation.

 By James P. Lichtenberges, Ph.D. Price, \$1.50.

VOLUME XXXVI, 1910. 542 pp. Price, cloth, \$4.00.

[95] *Reconstruction in Toxas. By Charles William Ramsbell, Ph.D. Price, \$2.50. [96] *The Transition in Virginia from Colony to Commonwealth.

By Charles Ramsbell Lingley, Ph.D. Price, \$1.50.

VOLUME XXXVII, 1910. 606 pp. Price, cloth, \$4.50.

- [97] Standards of Reasonableness in Local Freight Discriminations.

 By John Maurica Clark, Ph.D. Price, \$1.85. [98] Legal Development in Colonial Massachusetts.

 By Charles J. Hilkey, Ph.D. Price, \$1.25.
- [99] *Social and Mental Traits of the Negro.

 By Howard W. Odum, Ph.D. Price, \$2.00.

VOLUME XXXVIII, 1910. 463 pp. Price, cloth, \$3.50.

- [100] The Public Domain and Democracy.

 By ROBERT TUDOR HILL, Ph. D. Price, \$2.00. [101] Organismic Theories of the State.

 By Francis W. Coker, Ph.D. Price, \$1.50.

VOLUME XXXIX, 1910-1911. 651 pp. Price, cloth, \$4.50.

- [102] The Making of the Balkan States.

 By William Smith Murray, Ph.D. Price, \$1.50.

 [103] Political History of New York State during the Period of the Civil By Sidney David Brummer, Ph. D. Price, 3.00.

VOLUME XL, 1911. 633 pp. Price, cloth, \$4.50.

- [104] A Survey of Constitutional Development in China.

 By Hawking L. Yen, Ph.D. Price, \$1.50.

 [105] Ohio Politics during the Civil War Period.

 By George H. Porter, Ph.D. Price, \$1.75.

 [106] The Territorial Basis of Government under the State Constitutions.

 By Alpred Zamtinger Reep, Ph.D. Price, \$1.75.
- VOLUME XLI, 1911. 514 pp. Price, cloth, \$3.50; paper covers, \$3.00.
- [107] New Jersey as a Royal Province. By EDGAR JACOB FISHER, Ph. D.
- VOLUME XLII, 1911. 400 pp. Price, cloth, \$3.00; paper covers, \$2.50.
- [108] Attitude of American Courts in Labor Cases. Ey George Gorham Groat, Ph.D.

VOLUME XLIII, 1911. 633 pp. Price, cloth, \$4.50.

- [109] Industrial Causes of Congestion of Population in New York City.

 By Edward Ewing Pratt, Ph.D. Price, \$2.00.

 By E. Stuart Charin, Ph.D. Price, \$2.00.

 By E. Stuart Charin, Ph.D. Price, \$2.00.

 By E. Stuart Charin, Ph.D. Price, \$2.00.

 By Milledge L. Bonham, Jr., Ph.D. Price, \$3.00.

VOLUMES XLIV and XLV, 1911. 745 pp.

Price for the two volumes, cloth, \$6.00; paper covers, \$5.00.

[112 and 113] The Economic Principles of Confucius and his School.
By Chan Huan-Chang, Ph.D.

VOLUME XLVI, 1911-1912. 623 pp. Price, cloth, \$4.50.

- [114] The Ricardian Socialists. By Esther Lowenthal, Ph.D. Price, \$1.00 [115] Ibrahim Pasha, Grand Visier of Suleiman, the Magnificent. By Hester Donaldson Jankins, Ph.D. Price, \$1.00.
- [116] Syndicalism in France.

 By Louis Leving, Ph.D. Second edition, 1914. Price, \$1.50.

 By Nawell Leroy Sins, Ph.D. Price, \$1.50.

VOLUME XLVII, 1912. 544 pp. Price, cloth, \$4.00. 3. [118] The Politics of Michigan, 1865-1878, By Harriste M. Dilla, Ph.D. Price, \$2.00

3. [119] The United States Beet Sugar Industry and the Tariff.

By Roy G. Blazzy, Ph.D. Price, \$8.00

VOLUME XLVIII, 1912. 493 pp. Price, cloth, \$4.00.

1. [120] Isidor of Seville. By ERNEST BREMAUT, Ph. D. Price, \$6.00

3. [121] Progress and Uniformity in Child-Labor Legislation.
By William Finding Ognomy, Ph.D. Price, \$1.75

VOLUME XLIX, 1912. 592 pp. Price, cloth, \$4.50.

- 1. [122] British Radicalism 1791-1797. By Walter Phalis Hall. Price, page 3. [138] A Comparative Study of the Law of Corporations. By Arinua K. Kuhn, Ph.D. Price, \$4.50 8. [194] The Negro at Work in New York City.

 By George E. Havnes, Ph.D. Price, \$1.55

VOLUME L, 1911. 481 pp. Price, cloth, \$4.00.

1. [125] The Spirit of Chinese Philanthropy. By Yat Yuz Tsu, Ph.D. Price, \$1.00 9. [126] The Ailen in China. By VI. Kyulii Wallington Koo, Ph.D. Price, \$2.50 VOLUME LI, 1912. 4to. Atlas. Price: cloth, \$1.50; paper covers, \$1.00

1. [127] The Sale of Liquor in the South. By LEONARD S. BLAKEY, Ph.D.

VOLUME LII, 1912, 489 pp. Price, cloth, \$4.00.

- 1. [128] Provincial and Local Taxation in Canada.

 By Solomon Vinesess, Ph.D. Prica, \$1.50
- 3. [129] The Distribution of Income.

 By Frank Hatch Strenghtopp, Ph.D. Price, \$1.50

 THOSE STRENGHTOPP, Ph.D. Price, \$1.50

 By Frank Hatch Strenghtopp, Ph.D. Price, \$1.50

VOLUME LIII, 1913. 789 pp. Price, cloth, \$4.50; paper, \$4.00.

[131] The Civil War and Reconstruction in Florida. By W. W. DAVIS, Ph.D

VOLUME LIV, 1913. 604 pp. Price, cloth, \$4.50.

- 1. [132] *Privileges and Immunities of Citizens of the United States.
 By Arnold Jourson Line, Ph.D. Price, 75 cents
 3. [188] The Supreme Court and Unconstitutional Legislation.
 By Laine Free Moore, Ph.D. Price, \$1.00
 5. [184] *Indian Slavery in Colonial Times within the Present Limits of the United States.

 By Almos Wheeler Lauren, Ph.D. Price, \$3.00

VOLUME LV, 1913, 665 pp. Price, cloth, \$4.50.

- 1. [135] *A Political History of the State of New York.

 By Homes A. Stermin, Ph.D. Price, 54-50
- 8. [136] *The Early Persecutions of the Christians.

 By Leon H. Carriello, Ph.D. Price, \$1.90

VOLUME LVI, 1913. 406 pp. Price, cloth, \$3.50.

- 1. [187] Speculation on the New York Stock Exchange, 1904-1907,
 By Algeron Ashburer Obsers, Price, \$1.50

 2. [188] The Policy of the United States towards Industrial Monopoly.
 By Obsers Whitman Kanuth, Ph.D. Price, \$2.50

VOLUME LVII, 1914. 670 pp. Price, cloth, \$4.50.

- /1. [189] The Civil Service of Great Britain. By ROBERT MOSES, Ph.D. Price, \$0.00
- 2. [140] The Financial History of New York State.

 By Dow C. Sowess. Price, \$8.50

VOLUME LVIII, 1914. 684 pp. Price, cloth, \$4.50; paper, \$4.00.

[141] Reconstruction in North Carolina. By J. G. DE ROULEAC HAMILTON, Ph.D.

VOLUME LIX, 1914. 625 pp. Price, cloth, \$4.50.

- I. [142] The Development of Modern Turkey by means of its Proce.

 8. [143] The System of Taxation in China, 1614-1911.

 By Swaw Chen, Ph. D. Price, \$1.00

 8. [144] The Current Problem in China.

 By Was Pis Was, Ph. D. Proc, \$1.00

 8. [145] Morrish Improperties to the United States.
- 8. [144] The Currency Problem in China. By Wm Pm Wn, Ph.D. Proc, gr.sp 4. [145] "Jewish Immigration to the United States. By Samust Joseph, Ph.D. Price, gr.sp

```
1. [171] The Social and Economic Aspects of the Chartist Movement.

By Fash F. Rosmalatt, Ph.D. Proc. $1 00.
1. [171] The Social Blue and a superior of the Chartlet Movement.

By Passion William Slosson, Ph. D. Price, $6.00

By H. U. Faulkher, Ph.D. Price, $1.85
VOLUME LXXIV. 1917. 546 pp. Price, cloth, $4.50.
1. [174] The Rise of Ecolesiastical Control in Quebec.

By Walter A. Riddell, Ph.D. Price, $1.75.
2. [175] Political Opinion in Massachusetts during the Civil War and Reconstruction.

By Entry Ellish Wass, Ph.D. Price, $1.75.
construction.

8. [176] Collective Bargaining in the Lithographic Industry.

By H. E. Hoagland, Ph.D. Price, $1.00
VOLUME LXXV. 1917. 410 pp. Price, cloth, $4.00.
An extra-lilustrated and bound volume is published at $5.00.
1. [177] New York as an Eighteenth Century Municipality. Prior to 1781.
By Astrum Evenstr Fernason, Ph.D. Price, $1.00
8. [178] New York as an Eighteenth Century Municipality. 1781-1776.
By George William Edwards, Ph.D. Price, p. ....
VOLUME LXXVI. 1917. 489 pp. Price, cloth, $4.00.
1. [179] *Economic and Social History of Chowan County, North Carolina.
By W. Scott Boycs, Ph.D. Price, 25-50
9. [180] Separation of State and Local Revenues in the United States.
By Madel Newcomer, Ph.D. Price, $1.75
    VOLUME LXXVII. 1917. 473 pp. Price, cloth, $4.00.
[181] American Civil Church Law. By Carl Zollmann, Ll.B. Price, $3.50.
    VOLUME LXXVIII. 1917. 647 pp. Price, cloth, $4.50. [183] The Colonial Merchants and the American Revolution.

By ARTHUR MEIRR SCHLESINGER, Ph.D. Price, $4.00.
           VOLUME LXXIX. 1917-1918. 535 pp. Price, cloth, $4.50.
1. [188] Contemporary Theories of Unemployment and Unemployment Relief.

By Frankrick C. Mills, Ph.D. Price, 51.50.

[184] The French Assembly of 1848 and American Constitutional Doctrine.

By Euganz Newton Cuarts, Ph.D. Price, 53.00.
                VOLUME LXXX. 1918. 448 pp. Price, cloth, $4.00.
1. [185] Valuation and Rate Making. By Rosert L. Hals, Ph.D. Price, $1.50. [186] The Enclosure of Open Fields in England. By Harsint Bradley, Ph.D. Price, $1.25. By H. L. Huamo, Ph.D. Price, $1.50. By H. L. Huamo, Ph.D. Price, $1.50.
                 VOLUME LXXXI. 1918. 601 pp. Price, cloth $4.50.
1. [188] Social Life in Rome in the Time of Plautus and Terence.

By Georgia W. Leppingwell, Ph.D. Price, $1.25
9. [189] *Australian Social Development.
By CLARRICE H. NORTHCOTT, Ph.D. Price, $2.50.
8. [190] *Factory Statistics and Industrial Fatigue.
By Philip S. Florence, Ph.D. Price, $1.25.
           VOLUME LXXXII. 1918-1919. 576 pp. Price, cloth, $4.50.
1. [191] New England and the Bavarian Illuminati.

2. [192] Resale Price Maintenance. By Clausius T. Murchison, Ph.D. Price, $1.50.
               VOLUME LXXXIII. 1919. 432 p . Price, cloth, $4 00.
    [198] The I. W. W.
                                                                              By Paul F. BRISSENDEN, Ph.D. Price, $3.50
               VOLUME LXXXIV. 1919. 534 pp. Price, cloth, $4.50.
1. [194] The Royal Government in Virginia, 1624-1775.

By Percy Scott Flippin, Ph.D. Price, $3 00.

1. [195] Hellenic Conceptions of Peace. By Wallace E. Caldwell, Ph.D. Price, $1 25.
                VOLUME LXXXV. 1919. 450 pp. Price, cloth, $4.00.
1. [196] The Religious Policy of the Bavarian Government during the Napoleonic Period.

8. [197] Public Debts of China.

By F. H. Huang, Ph.D. Price, $1 co.

By F. H. Huang, Ph.D. Price, $1 co.
               VOLUME LXXXVI. 1919. 460 pp. Price, cloth, $4.00.
    [198] The Decline of Aristocracy in the Politics of New York.
By Dixon Ryam Fox, Ph.D. Price, $3.50.
```

VOLUME LXXXVII. 1919. 451 pp. Price, cloth, \$4.00.

[199] Foreign Trade of China.

By CHONG SU SEE, Ph.D. Price, \$3.50.

VOLUME LXXIII. 1917. 616 pp. Price, cloth, \$4.50.

VOLUME LXXXVIII. 1919. 444 pp. Price cloth, \$409. i. [200] The Street Surface Railway Franchises of New York City.

By HARRY J. CARMAN, J. D.

8. [201] Electric Light Franchises in New York City.

By Labour Army, Ph.D., Pros. 1. p.

VOLUME LXXXIX. 1919. 558 pp. Price, cloth, \$5.00 1. [202] Women's Whges.

8. [203] The Retugn of the Democratic Party to Power in 1884.

8. [204] The Paris Bourse and French Finance.

By William Parker, Ph.D. Price, \$1.50.

VOLUME XC. 1920.

. [205] Prison Methods in New York State. By Prilip Klair, Ph.D. Price, \$1 50. India's Demand for Transportation. By WILLIAM B. WELD, Ph.D. Price, fr. 15

VOLUME XCI. 1920.

1. [207: The Influence of Oversea Expansion on England to 1700.

By James E. Gillstein, Ph.D. Price, \$100.

2. (208) International Labor Legislation.

By I. F. Avusawa. (In Press).

VOLUME XCII. 1920.

[209] The Public Life of William Shirley. By GEORGE A. WOOD. (In p. Volumb XCIII. 1920.

fr.[\$10] The English Reform Bill of 1867. 2. [\$11] The Policy of the United States as Rega By JOSEPH H. PARE, (In free ards Intervention. By Charles E. Martin

The price for each separate monograph is for paper-covered eopies; separate monographs marks be supplied bound in cloth, for 60c. additional. All prices are not.

The set of eighty-eight volumes, covering monographs 1-201, is offered, bound, for \$300; except Volumes II, III, and IV can be supplied only in part, Volume II No. 1, Volume III No. 2, and Volume IV No. 3, being out of print. Volumes II, III, and IV, as described in the last sentence, and Volume XXV can now be supplied only in connection with complete set, but the esparate monographs of each of these volumes are available unless marked "set sold separately"

For further information, apply to

Messra, LONGMANS, GREEN & CO., New York. London: P. S. KING & SON, Ltd., Orchard House, Westminster.