Standard of living in Japan

Kokichi Morimoto

Johns Hopkins University Studies

JOHNS HOPKINS UNIVERSITY STUDIES

IN ,

HISTORICAL AND POLITICAL SCIENCE

Under the Direction of the

, e e

Departments of History, Political Economy, and Political Science

THE STANDARD OF LIVING IN JAPAN

BY

KOKICHI MORIMOTO, PH.D.
Associate Professor of Economics in Tohoku Imperial University

BALTIMORE
THE JOHNS MOPKINS PRESS
1918

THE JOHNS HOPKINS PRESS OF BALTIMORE.

American Journal of Insanity. H. M. Hurd, E. N. Brush, G. A. Blumer, J. M. Moshber and C. K. Clarks, Editors. Quarterly. 8vo. Volume LXXIV in progress. \$5 per volume. (Foreign postage, fifty cents.) American Journal of Mathematics. Edited by Frank Morley, with the cooperation of A. Cohrn, Charlotte A. Scott and other mathematicians, Quarterly. 4to. Volume XL in progress. \$6 per volume. (Foreign postage, fifty cents.)

American Journal of Philology. Edited by B. L. Glidberslerve and C. W. E. Miller, Quarterly. 8vo. Volume XXXIX in progress. \$3 per volume. (Foreign postage, fifty cents.) Beiträge sur Assyriologie und semitischen Sprachwissenschaft. PAUL HAUPT and FRIEDRICH DELITZSCH, Editors. Volume X in progress. Elliott Monographs in the Romance Languages and Literatures. Editor. 8vo. \$3 per year. Three numbers have appeared. Hesperia. Hermann Collitz, Henry V 8vo. Eleven numbers have appeared. HERMANN COLLITE, HENRY WOOD and JAMES W. BRIGHT, Editors. Johns Hopkins Hospital Bulletin. Monthly. 4to. Volume XXIX in progress. \$3 per year. (Foreign postage, fifty cents.) Johns Hopkins Hospital Reports. 8vo. Volume XVIII in progress. \$5 per volume (Foreign postage, fifty cents.) Johns Hopkins University Circular, including the President's Report, Annual Register, and Medical Department Catalogue. T. B. Ball, Editor. Monthly 8vo. \$1 per year. Johns Hopkins University Studies on Education. Edited by E. F. Buchner and C. M., Campbell. 8vo. Two numbers have appeared. Johns Hopkins University Studies in Historical and Political Science. Under the direction of the Departments of History, Political Economy, and Political Science. 8vo Volume XXVI in progress. \$3.50 per volume Modern Language Notes. J. W. Bright, Editor-in-Chief, M. P. Brush, W. Brlimbyer and G. Gruenbaum. Eight times yearly. 8vo. Volume X in progress. \$3 per volume. (Foreign postage, fifty cents.) BRUSH, W. KUR Volume XXXIII Reports of the Maryland Geological Survey. Edited by W. B. CLARK. Reprint of Economic Tracts. J. H. HOLLANDER, Editor. Fourth series in progress. \$2.00. Terrestrial Magnetism and Atmospheric Electricity. I. A. BAUER, Editor. Quarterly. 8vo. Vol. XXIII in progress. \$3 per volume. (Foreign postage, 25 cents.) POEMA DE FERNAN GONCALEZ. Edited by C. Carroll Marden. 284 pp. 8vo. \$2.50. STUDIES IN HONOR OF PROFESSOR GILDERSLEEVE. 527 pp. 8vo. \$6. STUDIES IN HONOR OF A. MARSHALL ELLIOTT. Two volumes. 8vo. 450 and 334 pp. \$7.50. THE PHYSICAL PAPERS OF HENRY A. ROWLAND, 716 pp. 8vo. \$7.50. ECCLESIASTES: A New METRICAL TRANSLATION. By Paul Haupt. 50 pp. 8vo) 50 cents. THE BOOK OF NAHUM: A METRICAL TRANSLATION. By Paul Haupt. 53 pp. 8vo. THE HAGUE PEACE CONFERENCES OF 1899 AND 1907. By J 168 Brown Scott Vol. I, The Conferences, 887 pp.; Vol. II, Documents 548 pp. 8vo. \$5. THE ECLOGUES OF BAPTISTA MANTUANUS. By N. P. Mustard. 156 pp. 8vo. \$1.50. THE PISCATORY ECLOGUES OF JACOPO SANNAZARO. By W. P. Mustard. 94 pp. / 8vo. \$1. DIPLOMATIC NEGOTIATIONS OF AMERICAN NAVAL OFFICERS, 1778-1883. By C. D. Paullin. 380 pp. 12mo. \$2. FOUR PHASES OF AMERICAN DEVELOPMENT—Federalism, Democracy, Imperialism, Expansion. By J. B. Moore. 218 pp. 1? , \$ 10. THE DIPLOMACY OF THE WAR OF 1812. By F. A. Updyke. 504 pp. 12mo. \$2.50. EARLY DIPLOMATIC RELATIONS BY WEES THE UNITED STATES A " MEXICO. BY W. R. Manning. 418 pp. 11". \$7"

AN OUTLINE OF PSYCHOBIOLO. Dunap. 121 pp. 77 cuts. Royal AN OUTLINE OF PSYCHOBIOLOG 8vo. \$1.25. Dunap. 121 pp. 77 cuts. Royal THE CREED OF THE OLD SOUTH , ersleeve. 128 pp. -own 8vo. \$1.7 IN UNITED STATES AND JAPAN EARLY DIPLOMATIC RELATION 1853-1865. By Payson J.

A complete list o. pu. .ations sent on request.

12mo. \$2.50.

THE STANDARD OF LIVING IN JAPAN

JOHNS HOPKINS UNIVERSITY STUDIES

IN

HISTORICAL AND POLITICAL SCIENCE

Under the Direction of the

Departments of History, Political Economy, and Political Science

THE STANDARD OF LIVING IN JAPAN

BY

KOKICHI MORIMOTO, PH.D.
Associate Professor of Economics in Tohoku Imperial University

BALTIMORE
THE JOHNS HOPKINS PRESS
1918

COPYRIGHT 1918 BY THE JOHNS HOPKINS PRESS

PRESS OF THE REW ERA PRINTING COMPANY LANCASTER, PA.

CONTENTS

PART I

		Introductory	Page
Chapter	I.	Importance of the Study	9
CHAPTER	II.	Conception of the Standard of Living	14
-		PART II	
		Cost of Food	
CHAPTER	III.	General Study of Diets	20
CHAPTER	IV.	Actual Status of Food Consumption.	29
CHAPTER	v.	National Diet of Japan	40
CHAPTER	VI.	Comparison of Rice and Wheat as the	
		Principal Food	55
CHAPTER	VII.	Improvement of Food Consumption.	63
		PART III	
		Cost of Clothing	
CHAPTER	VIII.	Expenditure for Clothing in Cities	71
CHAPTER	IX.	National Clothing of Japan	98
CHAPTER	X.	Improvement of Clothing	103
CHAPTER	XI.	Some Principles of Expenditure for	
		Clothing	112
		PART IV	
		Cost of Housing	
CHAPTER	XII.	Expenditure for Housing	115
CHAPTER	XIII.	Improvement of Housing	122

CONTENTS

DADT W

PART V Cost of Living as a Whole				
	Cost of Living among Tenant Farmers127			
* * *	Minimum Cost of Living 133			

PREFACE

The field for studies of this kind in Japan is still barren of material. With the exception of some little data, the material for this inquiry was collected by me in the years 1913 to 1915, during which period I was also engaged in teaching political economy at the Imperial University, Sapporo, Japan. A wider range of better balanced data is necessary for a thorough inquiry; however, without more extensive statistical work on a larger scale, furthered by aid from public institutions, no work of this nature could be so complete as might be desired.

I wish to express my obligation to those who have helped me. Especially am I grateful to Professor J. H. Hollander and Professor G. E. Barnett for advice and for criticism of the manuscript, and to my friend, Miss Margaret Schneder, Professor of English at Cedarville College, Cedarville, Ohio, for her kindness in reading the manuscript.

K. M.

GLOSSARY

Ame—Honey-like jelly made of wheat.

Awase-Medium weight garment, lined.

Bancha-Inferior kind of green tea.

Daikon-Kind of garden radish.

Futakoori—Kind of silk fabric woven with threads of two strands.

Futoori-Kind of thick coarse fabric.

Go—o.1 sho, o.04765 United States standard gallon, or 1.2705 gill (United Kingdom). (1 pint = 3.14 go.)

Goishicha-Kind of compressed tea.

Gomanoyu—Vegetable oil made of Semanium Orientalis.

Gyokuro-Superior kind of green tea.

Habutaye—Kind of glossy silk fabric.

Hakama-Kind of skirt.

Hakamaji-Skirt cloth.

Hakimono-Clogs and sandals.

Hakucha—Kind of compressed tea.

Haori—Kind of coat to wear over the main garment (wataire, awase, or hitoye).

Hitoye-Light garment, not lined.

Itoori-Kind of silk fabric with fine twisted threads.

Jyuban-Kind of underwear, combination suit.

Kabe-Mud wall.

Kaiki-Kind of glossy silk fabric.

Kasaji-Umbrella cloth.

Kasuri-Cloth with minute marks of various forms.

Katsubushi-Dried flesh of bonito, a kind of condiment.

Kimono—Clothing, garments.

Kin—160 momme, 1.323 pounds.

Kobaikaiki—Kind of silk fabric.

Koku-100 sho, 4.96 bushels.

Konnyaku-Kind of edible root, something like taro.

Koshihimo-Smaller sash tied round hip, keeping dress in place.

Miso—The most widely used food preparation, made of wheat, beans, and salt. It forms a substance something like soft cheese.

Myoga—Edible plant (Gingiber Mioga).

Nanako—Kind of silk fabric woven with threads of three strands.

. Negi-Onion, something like spring onion.

Obi-Sash.

Obiage—Smaller sash tied around hip, keeping in place the larger sash.

Obiji-Sash cloth.

Obitome—Smaller sash used to fasten and support the larger sash; generally a fancy buckle is attached.

Oshiire—Kind of closet.

Rekicha—Kind of compressed tea.

Ro—Kind of gauze.

Saké—National strong liquor brewed from rice; it contains about 15 per cent of alcohol.

Sen-o.o1 yen, about 1/2 cent.

Sencha-Ordinary green tea.

Sho—10 go, 0.4765 United States standard gallon, 0.39703 gallons (United Kingdom), 1.8 litre.

Shoyu—Kind of sauce made of beans and barley with plenty of salt.

Sukiya—Thin silk fabric for making summer garments.

Sun—1/10 shaku, 1.49 inches.

Tabi-Kind of sock, close-fitting covering for the feet, made by sewing together pieces of cloth.

Takuwan-zuke—Kind of pickle, tsukemono, which was first prepared by a priest named Takuwan.

Tan (square measure)—0.245 acre, 300 tsubo.

Tan (linear measure)—280 sun, 11.6 yards.

Tōfu—Preparation made of bean curd hardened by mixing with a small quantity of the brine left after the deliquescence of salt (bean jelly).

Tokonoma—Alcove in the parlor; regarded as the seat of honor.

GLOSSARY

Tsukemono—Vegetables, generally radish and turnip, pickled in a mixture of salt and rice bran.

Tsumugi-Kind of pongee.

Umé-Variety of plum (prunus mume).

Umeboshi-Plums (ume) pickled in salt.

Uba—Skin of bean curd.

Wataire—Padded garment.

Woroncha—Kind of black tea.

Yakifu—Preparation made of wheat ground whole, something like a cracker.

Yen-100 sen, about 50 cents (7.5 dg. fine gold.)

INDEX

Atwater, W. O., 21, 65.

Barley, naked, 42, 43. Bread diet, 61, 62. Bullock, C. J., 17.

Chittenden, R. H., 21.
Clothing, method of investigation of, 71; leading features of, 72, 73; European, 73, 74; Japanese, 74; of family, 76, 82, 87, 92; of father, 77, 78, 83, 88, 93; of mother, 79, 84, 89, 94; of boy, 80, 85, 90, 95; of girl, 81, 86, 91, 96; of children, 110-111; in large cities, 76-92; in small cities, 92-97; miscellaneous articles, 82, 87, 92, 97; materials, 103, 104; European and Japanese, comparison of, 105-107; improvement in, 103-111; principles of expenditure, 112.
Clothing, national, 98-102; silk fabrics, 98; mixed silk and cot-

fabrics, 98; mixed silk and cotton fabrics, 99; cotton fabrics, 100; hempen and linen fabrics, 100; woolen, 101; summary, 101.

Comfort, 16, 17.
Consumption, 12, 13.
Cooking, object of, 66.
Cost of living among farmers,
127-132; cost of investigation;

127-132; cost of investigation, 127; method of investigation, 127; comparison with other studies, 132.

Cotton, 99, 100, 104.

Debts, national, 12.
Diet, national, 40-54; method of study, 40.
Diet of farmers, 29-32, 64.
Diet of prisoners, 33-34.
Diet of sailors, 36.
Diet of soldiers, 37.
Diet of woman laborer, 34-35.
Dietaries for Japanese, 22.
Dietaries, standard of, 21.
Dietary habit, 22, 26.

Economy, 9, 11.

Ely, R. T., 17.
Equilibratory action (food consumption), 56.

European clothing for women, 108.

Farmer's family, capital, 128; income, 129; expenditure, 129, 130; food consumption, 130, 131.

Fetter, F. A., 17.

Fish, 46.
Food consumption, among Ainu,
18; actual status of, 29-39; improvement of, 63-70; luxury,
68; waste, 63, 75.

Food equivalents, scale of, 28, 40, Food, expenditure for, 18; function of, 20; literature for study of, 20; market value of, 27; price of, 27; causes of low cost of, in Japan, 26; variety in, 64; distinction between market and normal price, 64; marginal utility, 66.

Food value, determination, 27. Fruits, 45.

Gide, C., 17. Grains other than rice and barley, 42, 43.

Hakama (skirt), 109.4 Hollander, J. H., 143. Housing, method of investigation of, 115; expenditure for, 115-126; number of rooms, 116, 124; size of rooms, 116, 123; rent, 117, 121; in Tokyo, 118-120; principles of expenditure for, 121; improvement in, 122; minimum expenditure for, 122; types of buildings, 124.

Individuality, influence of, on mode of living, 19.

Japan, wealth of, 11.

Kitchen, improvement in, 69; cooperative, 69, 70.

Leroy-Beaulieu, 17.
Liquor and drinking, 50, 51, 69.
Living, change in, 12; method of investigation, 15; decent, 16; variation in, 18-19; three grades, 142-143.
Luxury, 16, 17, 113.
Marshall, A., 15.

Meat, 48, 67.

A dile class, 143.

A imum cost of living, method of study, 133; food, 134-136; clothing, 136-137; housing, 137-

138; living in America, 144.

Nearing, S., 19. Necessity (wants), 15. Nutrients, 21, 27.

- Occupation, influence of, on mode of living, 19.

Physical agents, influence of, on mode of living, 19. Pierson, N. G., 10. Playfair, 21. Poor; the, 143. Population, 41. Froduction, 12-13.

Radish, 44, 57.
Refreshments between meals, 67.
Rice, 41-43; market value, 58; normal value, 58, 59; increase of consumption, 59; annual produce, 60.
Rice and wheat, comparison, 55-62; price-counteraction, 55; dietetic nature, 56; nutritive value, 56; cooking, 60.
Rich, the, 143.
Roscher, W., 9, 17.

Rowntree, B. S., 143. Ryan, J. A., 16, 144.

Saké, 50, 51. Sait, 50. Sash, 101, 102, 110. Seligman, E. R. A., 9. Shell-fish, 47. Shoes, 110. Silk, 98, 104. Smart, W., 144.

Soy-bears, 43. Stand. I diets, menu, 22, 23; cc.1, 24; comparison, 25; improved, 38, 39; preparation, 64,

Standard of living, theoretical importance of study of, 9-11; literature of, 10; practical importance of study of, 11, 12; difficulty of study of, 14, possibility of determination, 14, 15; conception of, 14-19, 133; absolute, 16, 18, 133, 142; realtive importance, 16, 17, 133, 142; efficient, 18, 133, 141. Streightoff, F. H., 15, 122.

Tea, 51, 53. Tobacco and smoking, 53, 69.

Underhill, 22, 25. Utility, law of, 63.

Sugar, 49, 67.

Vegetables, 43, 44. Vegetarianism, 32, 65. Voit, 21.

Wants, 9, 15, 16, 20. Wealth, national, 11. Women's clothing, improvement, in, 108-111, 113, 114-Wool, 101, 104.