

Other Books by the Same Author

**FIVE BOOKS DEALING WITH THE GENERAL
PRINCIPLES OF GEOGRAPHY**

- Asia: A Geography Reader.** Chicago, 1912.
The Red Man's Continent. New Haven, 1919.
Principles of Human Geography (with S. W. Cushing).
New York, 1920.
Business Geography (with F. E. Williams). New
York, 1922.
Modern Business Geography (with S. W. Cushing).
Yonkers, 1924.

**FOUR BOOKS DEALING WITH THE EFFECT OF
CLIMATE**

- The Pulse of Asia.** Boston, 1907.
Palestine and Its Transformation. Boston, 1911.
Civilization and Climate. New Haven, 1915.
World Power and Evolution. New Haven, 1919.

**FOUR BOOKS DEALING WITH THE NATURE AND
CAUSES OF CLIMATIC CHANGES**

- Explorations in Turkestan.** Expedition of 1903 (with
others). Washington, 1914.
The Climatic Factor, as Illustrated in Arid America.
Washington, 1914.
**Earth and Sun: An Hypothesis of Weather and Sun-
spots.** New Haven, 1923.
Climatic Changes (with S. S. Visser). New Haven, 1922.

THE CHARACTER OF RACES

THE CHARACTER OF RACES

AS INFLUENCED BY PHYSICAL ENVIRONMENT, NATURAL
SELECTION AND HISTORICAL DEVELOPMENT

BY
ELLSWORTH HUNTINGTON

Research Associate in Geography in Yale University

CHARLES SCRIBNER'S SONS
NEW YORK · LONDON

1925

COPYRIGHT, 1924, BY
CHARLES SCRIBNER'S SONS
Printed in the United States of America



**TO
THE ONE TO WHOM I OWE MOST
MY MOTHER**

PREFACE

SOME nine years ago, in a book called *Civilization and Climate*, I set forth the thesis that the general distribution of civilization and progress depends largely upon climate. I also attempted to show that the influence of climate is strongly modified by migrations of peoples and cultures, by racial mixture, by inventions and discoveries such as iron tools and agriculture, and by ideas such as religion. After reasonable allowance had been made for all these factors, I still felt that certain highly significant features of the distribution of human progress remained unexplained. Why for example did such meteoric intellectual brilliancy occur in Greece? Why are such wonderful Hindu ruins located in Cambodia in Indo-China? Why has a high type of culture been able to persist for a thousand years in stormy Iceland? And why do we see in China the curious anomaly of a progressive South and a conservative North? After years of search I believe that at least a partial explanation is found in natural selection arising most frequently under the stress of over-population and migration. The principle involved is so simple and obvious that it seems almost incredible that it has been so largely ignored by students of geography, history, and sociology.

A study of famines in China was the step which disclosed the importance of this principle. Having long been puzzled over the fact that north China does not show the degree of progress that one would expect on the basis of either its climate, its institutions, or its past achievements, I was stimulated to further investigation by an article by Doctor Carl W. Bishop in *The Geographical Review* (vol. VII, 1922). Doctor Bishop points out most clearly the nature of the contrast between the "staid and conservative" North of China and the "alert and progressive" although semi-tropical South. It occurred to me that famines might have something to do with this. Accordingly, I wrote to an old friend, Reverend Robert E. Chandler, a missionary at

Tientsin, China, and asked his opinion as to the effect of famines in selecting certain physical or mental types for destruction, preservation, or migration. He not only sent his own answer, but procured a series of most interesting letters from other missionaries, including Doctor Arthur H. Smith, author of *Chinese Characteristics* and *Village Life in China*; Doctor F. F. Tucker, head of the American Hospital at Tehchow; Professor Guy W. Sarvis, of Nanking University; Reverend George D. Wilder, of Peking; and Reverend Henry Lieper, of Tientsin. All of these men have had personal experience of famines and of relief work. Later I visited China and interviewed still other missionaries, among whom I must mention Doctor William E. Souter, of the China International Famine Relief Commission; Reverend W. E. Macklin, of Nanking; Reverend R. A. Torrey, of Tsinan, who has lived among the famine-stricken people of Shantung and has thought deeply on the significance of what he has seen; Doctor J. H. Ingraham, of Peking; and Mr. E. W. Edwards, of the Peking Y. M. C. A., secretary of the China International Famine Relief Commission. All of these men, as well as others too numerous to mention, were extremely kind in giving me a wealth of information which seems to show that the process of natural selection through over-population, famine, and migration is taking place in China to-day at a rapid rate. Historical records prove that it has taken place with equal or greater rapidity during a large part of the last two thousand years or more. The case is so clear that the chapters on China form perhaps the most important section of this book.

Iceland furnishes another equally clear-cut case. The conditions there, however, are quite different from those of China, for in that cool northern island the main selection of the inhabitants took place once for all; the noteworthy fact is the extraordinary persistence of a high inheritance when once it had been segregated. The outward contrast between China and Iceland is so pronounced, while the similarity of the principles involved is so great, that in spite of the scanty population it has seemed worth while to treat Iceland almost as fully as China. The rest of the

book is devoted to an attempt to apply the biological principle of natural selection to man's early history and distribution, and then more fully to specific historical instances. The number of such instances is so large and their intrinsic interest so great that it has been no easy matter to choose among them.

Three peculiarities of this book perhaps need explanation. First, natural selection is constantly emphasized, while other equally important factors are made subordinate, although great care is taken to mention them; second, only a few of the hundreds of fine examples afforded by history are here treated; and third, much space is devoted to a somewhat speculative account of man's early evolution and migrations.

The reason for all three peculiarities is the same: One cannot do everything in a single book. This book is the logical companion of *Civilization and Climate*. Each illustrates a great principle which has generally been overlooked in the study of history. Neither pretends to be complete, for where a new subject is first presented the mere limitations of space, as well as the dictates of psychology, make it necessary to concentrate upon a single theme. For a complete, well-rounded view of history one must combine these two books with many others which discuss such matters as geographic location and natural resources; human inventions, discoveries, and ideas; the influence of men of genius; the economic forces that bind mankind so closely; the growth and pressure of population; and the interplay of war, religion, intrigue, and human ambition. Some day the progress of science will give us a scientific history in which all these factors, as well as the factors of climate and natural selection, are co-ordinated and given due weight. As a help toward such a sketch, it has seemed to me wise to show how the principles of climatic change and natural selection probably apply to the earliest human development, as well as to outstanding examples from later periods. It has also seemed wise to concentrate on natural selection through physical causes, and to devote to other factors only enough space to convince the reader that I appreciate their great importance in modifying human character.

In this book, as in every other that I have written, I owe much to a group of kind friends, to all of whom I here tender most hearty thanks. The manuscript has been read and criticised in whole or in part by my colleagues Professors Irving Fisher, Richard S. Lull, and George G. McCurdy; by Professor Griffith Taylor, of Australia; and also by my wife and by Mr. R. V. Coleman, of the Yale University Press. Had it not been for Mr. Coleman's insistence I doubt whether this book would have been written. Five years ago he persuaded me to write on a topic which at first was tentatively expressed as *The Influence of Climate upon Mankind* and later as *The Effect of Physical Environment upon the Origin and Modification of Racial Character*. Professor Frederick W. Williams, of Yale University, and Professor Stephen S. Visher, of Indiana University, have not only read the manuscript but have devoted much time to providing material which has been the basis of long sections of the book.

I also wish gratefully to acknowledge my indebtedness to the following publishers and authors for permission to quote from their books: to Stanislaus Novakovsky, for use of a passage from his unpublished manuscript on "Hysteria Artica"; to E. P. Dutton & Company and E. H. Parker, for the use of passages from "China, Her History, Diplomacy, and Commerce: From the Earliest Times to the Present Day"; to Harper & Brothers and Sir Philip Gibbs, for the use of passages from "Now It Can Be Told" and "Adventures in Journalism"; to Hurst & Blackett, Ltd., and Havelock Ellis for the use of a passage from "A Study of British Genius"; to Oxford University Press for the use of passages from "Studies in History and Jurisprudence," by James Bryce; to Roland B. Dixon, for the use of passages from "The Racial History of Man"; to William McDougall for the use of passages from "Is America Safe for Democracy?" to Macmillan & Co., Ltd., of London, and The Macmillan Company of New York, for the use of passages from "Homer and History," by Walter Leaf; to Yale University Press for the use of a passage from the preface; by Charles M. Andrews, to "The Colonizing Activities of the English Puritans"; to Columbia Studies and Edwin

PREFACE

xi

L. Clarke for the use of passages from "American Men of Letters: Their Nature and Nurture"; to Columbia Studies and Mabel P. Lee for the use of passages from "The Economic History of China, with Special Reference to Agriculture"; to F. W. Williams, for the use of passages from a manuscript entitled, "A History of China"; to S. S. Visher, for the use of "A Study of the Type of Place of Birth and Occupations of Fathers of Persons in Who's Who in America."

E. H.

YALE UNIVERSITY,
NEW HAVEN, CONN.,
August, 1924.

CONTENTS

	PAGE
PREFACE	vii
CHAPTER	
I. RACIAL CHARACTER AND NATURAL SELECTION	1
II. FIRST STEPS IN HUMAN CHARACTER	20
III. THE EARLIEST GREAT MIGRATIONS	33
IV. GLACIATION AND THE SUPREMACY OF EUROPE	47
V. THE SUPPRESSION OF AMERICA	61
VI. THE CLASSIFICATION OF RACES	73
VII. THE ANOMALIES OF ABORIGINAL AMERICA	88
VIII. THE ASIATICS WHO DWELL IN TENTS	112
IX. JEWS, ARMENIANS, AND TURKS	129
X. CYCLES OF CHINESE HISTORY	148
XI. NORTH VERSUS SOUTH IN CHINA	158
XII. THE SCOURGE OF FAMINE	170
XIII. THE SELECTION OF THE CHINESE	184
XIV. THE THREE GREAT RACES OF EUROPE	205
XV. THE CHARACTER OF MODERN EUROPE	220
XVI. THE CONTRAST BETWEEN GREEKS AND IRISH	236
XVII. THE DISPERSAL OF THE NORTHMEN	252

CHAPTER	PAGE
XVIII. WARLIKE NORMANS AND PEACEFUL ICELANDERS .	264
XIX. THE PERSISTENCE OF A SELECTED INHERITANCE .	277
XX. THE DIRECT EFFECT OF ENVIRONMENT ON CHARACTER	286
XXI. THE SELECTION OF MODERN AMERICANS	301
XXII. THE RACIAL TENDENCIES OF CIVILIZATION . . .	332
XXIII. A RACIAL TEST OF CITIES, DEMOCRACY, AND FEMINISM	346
 LIST OF REFERENCES	 374
INDEX	379

ILLUSTRATIONS

FIG.		
1.	The Pressure Zone between Glaciation and Deserts	<i>Facing page</i> 48
2.	Generalized Zones of Primitive Migrations	“ “ 76
3.	Head-form and Routes of Migration in Europe	“ “ 78
4.	Maps Showing the Correlation of Cultural Conditions with the Cephalic Index	<i>Facing page</i> 80
5.	Birthplaces of High Officials in China	“ “ 162
6.	Percentage of Scientists among Eminent Europeans <i>Between pages 222 and 223</i>	
7.	Percentage of Eminent Europeans Engaged in Religious, Educational, and Philosophical Work	<i>Between pages 222 and 223</i>
8.	Percentage of Eminent Europeans Engaged in Art and Literature <i>Between pages 222 and 223</i>	
9.	Percentage of Historians among Eminent Europeans <i>Between pages 222 and 223</i>	
10.	Percentage of Eminent Europeans Engaged in War and Politics <i>Between pages 230 and 231</i>	
11.	Distribution of Civilization in Europe	“ “ “
12.	Eminent Europeans Born since 1600 A. D. per 10,000 of Estimated Population in 1800 A. D.	<i>Between pages 230 and 231</i>
13.	Distribution of Health in Europe	“ “ “
14.	Distribution of Climatic Energy in Europe	<i>Facing page</i> 232
15.	Approximate Variations of Rainfall in California during the Christian Era	<i>Facing page</i> 232
16.	Deaths of Men Compared with Women at Various Ages in Iceland, Norway, and Switzerland, 1876-1915	<i>Facing page</i> 314

ILLUSTRATIONS

no.

17. Persons in *Who's Who* (1922-1923) Born in Each State per 1,000,000 of Mean White Population 1850-1880, Giving Double Weight to 1860 and 1870 *Facing page 314*
18. Residents Included in *Who's Who* (1922-1923) per 1,000,000 Population in 1923 *Facing page 316*
19. Increase (or decrease) (1912 to 1922) in Proportion of Eminent Persons Born per 100,000 of Population *Facing page 316*

THE CHARACTER OF RACES

LIST OF REFERENCES

- Abbott, Evelyn History of Greece. New York, 1900.
- Adams, Brooks The Emancipation of Massachusetts. Boston, 1919.
- Andrews, Charles M. Preface, The Colonising Activities of the English Puritans. By A. P. Newton. New Haven, 1914.
- Backhouse, E., and Annals and Memoirs of the Court of Peking. Boston and New York, 1914.
- Bland, J. O. P. Probable Relations of Climatic Changes to the Origin of the Tertiary Ape-Man. Scientific Monthly, January, 1917.
- Barrell, Joseph
- Bashford, J. W. China, an Interpretation. New York, 1919.
- Bates, H. W. The Naturalist on the River Amazon. London, 1892.
- Bishop, C. W. The Geographical Factor in the Development of Chinese Civilization. Geographical Review, vol. 7, 1922.
- Bland, J. O. P. See E. Backhouse.
- Boulger, D. C. A Short History of China. New York, 1891.
- Bryce, James Preface, Denmark and Sweden, with Iceland and Finland. By Jon Stefansson. New York, 1917.
- " Race Sentiment as a Factor in History. London, 1915.
- " Letter quoted in Huntington's Civilization and Climate, pp. 161 ff. New Haven, 1915.
- " Studies in History and Jurisprudence. New York, 1901.
- Burton, Richard R. Ultima Thule, or a Summer in Iceland. London, 1875.
- Campbell, George Origin and Migrations of the Hakkas. Swatow, 1912.
- Carr-Saunders, A. M. The Population Problem, a study of human evolution. Oxford, 1922.
- Cattell, J. McK. Families of American Men of Science, in American Men of Science, third edition, 1921.
- Clarke, Edwin L. American Men of Letters: Their Nature and Nurture. Studies in History, Economics, and Public Law, Columbia Univ., vol. 72, 1916.
- Clutton-Brock Religion Now. Atlantic Monthly, vol. 124, 1919.
- " Problem of Martha. Atlantic Monthly, vol. 126, 1920.
- " Pursuit of Happiness. Atlantic Monthly, vol. 124, 1919.
- Conybeare, C. A. V. The Place of Iceland in the History of European Institutions. London, 1877.
- Davies, Geo. R. A Statistical Study of the Influence of Environment. Quart. Journ., Univ. N. Dak., vol. 4, 1914.
- Dixon, R. B. The Racial History of Man. New York, 1923.
- Doughty, C. M. Travels in Arabia Deserta. London, 1888 (also 1921).

- East, Edward M.
Edwards, H. J.
- Eliot, Charles W.
- Elliot, G. F. Scott
Elliot (Odysseus)
Ellis, Havelock
Forbes, Charles S.
- Freeman, Edward A.
- Galton, Francis
- Gautier, E. F.
- Gibbs, Philip H.
“
- Gilfillan, C. S.
- Gobineau, Arthur de
Goodwin, John A.
Grant, Madison
- Gray, Dr.
- Grinnell, Geo. B.
- Hodge, F. W.
- Humphrey, Seth K.
Huntington, Ellsworth
Icelandic Books of the Ninth Century.
Keary, C. F.
“
- Keith, Arthur
Kendrew, W. G.
Kneeland, Samuel
Kroeber, A. L.
- Lambert, R. A.
- Latourette, K. S.
Laughlin, H. L.
Leaf, Walter
Le Bon, Gustave
- Lee, Mabel P.
- Mankind at the Crossroads. New York, 1923.
Article on Colonies, in *A Companion to Greek Studies*. Cambridge, 1905.
Family Stocks in a Democracy, in *American Contributions to Civilization*. 1898.
Prehistoric Man and His Story. London, 1915.
Turkey in Europe. London, 1900.
A Study of British Genius. London, 1904.
Iceland; Its Volcanoes, Geysers, and Glaciers. London, 1860.
Articles on the Normans and Sicily, in *Encyclopædia Britannica*, tenth and eleventh editions.
Hereditary Genius, an Inquiry into Its Laws and Consequences. New York, 1870.
Nomad and Sedentary Folk of Northern Africa. *Geographical Review*, vol. 6, January, 1921.
Now It Can Be Told. New York and London, 1920.
Adventures in Journalism. London, 1923.
The Coldward Course of Progress. *Political Science Quarterly*, 1920.
The Inequality of Human Races. London, 1915.
The Pilgrim Republic. Boston, 1895.
The Passing of the Great Race. 4th edition. New York, 1923.
See article by Lennox in *China Medical Journal*, July, 1919.
The Cheyenne Indians, Their History and Ways of Life. New Haven, 1923.
Handbook of American Indians North of Mexico. Washington, 1911.
The Racial Prospect. New York, 1920.
See list of books opposite title page.
Icelandic Books of the Ninth Century. *Islandica*, vol. 14, 1922.
The Vikings in Western Christendom. 1891.
Article on Vikings in *Encyclopædia Britannica*.
The Antiquity of Man. London, 1915.
The Climates of the Continents. Oxford, 1922.
An American in Iceland. Boston, 1876.
Articles on Indians of California in F. W. Hodge: *Handbook of American Indians*.
Post-war Work Among the Armenian Refugees by the Red Cross. *Military Surgeon*, vol. 49, pp. 314-332. Washington, 1921.
The Development of China. Boston, 1917.
Racial Stocks in a Democracy. New York, 1923.
Homer and History. London, 1915.
The Psychology of Peoples, Its Influence on Their Evolution. London, 1890.
The Economic History of China, with Special Reference to Agriculture. New York, 1921.

- Lennox, Wm. G. Chinese Vital Statistics. *China Medical Journal*, July, 1919.
- Lowie, Robert H. Primitive Society. New York, 1920.
- Lull, R. S. Organic Evolution. New York, 1917.
- MacDougall, Wm. Is America Safe for Democracy? New York, 1921.
- Matthew, W. D. Climate and Evolution. *New York Academy of Science*, 1915.
- “ The Arboreal Ancestry of the Mammalia, *American Nat.*, vol. 38, 1904.
- Mayor, R. J. G. Article on Population in *A Companion to Greek Studies*. Cambridge University Press, 1905.
- McCurdy, G. G. Human Origins, a Manual of Prehistory. New York, 1924.
- Mimir Icelandic Institutions, with addresses, 1903.
- Myers, John L. Greek Lands and the Greek People.
- Newton, Arthur P. The Colonising Activities of the English Puritans. New Haven, 1914.
- Nicoll, James An Historical and Descriptive Account of Iceland, Greenland, and the Farøe Islands. Edinburgh, 1841.
- Novakovsky, Stanislaus Unpublished manuscript on Siberian Hysteria as a Reflex of the Geographic Environment, published in part in *Ecology*, vol. 5, 1924.
- Odin, Alfred Genèse des Grands Hommes. *Gens de Lettres Français Modernes*. Paris, 1895.
- Osborn, H. F. Men of the Old Stone Age. New York, 1918.
- “ Preface to *The Passing of the Great Race*, by Madison Grant. New York, 1916.
- “ The Pliocene Man of Foxhall in East Anglia. *Natural History*, November and December, 1921.
- “ The Dawn Man of Piltdown, Sussex.
- “ Old and New Standards of Pleistocene Division in Relation to the Prehistory of Man in Europe. 1922.
- Parker, E. H. China, Her History, Diplomacy, and Commerce, from the Earliest Times to the Present Day. New York, 1917.
- Pettersson, O. Climatic Variations in Historic and Prehistoric Times. *Svenska Hydrografisk-Biologiska Kommissions Skrifter*, Heft V. Goteborg, 1914.
- Pfeiffer, Ida A Journey to Iceland and Travels in Sweden and Norway. New York, 1852.
- Powell, F. Y. Article on Iceland, *Encyclopædia Britannica*, eleventh edition.
- Redfield, C. L. Control of Heredity. Chicago, 1903.
- “ Dynamic Evolution. New York, 1914.
- “ Great Men and How They Are Produced. Chicago, 1915.
- “ Human Heredity. Chicago, 1921.
- Ridgeway, Wm. The Early Age of Greece. Cambridge (Eng.), 1901.

- Russell, Bertrand The Problem of China. London, 1922.
 Russell, W. S. C. Iceland, 1914.
 Semple, Ellen C. Influence of Geographic Environment. New York, 1911.
- Sergei, G. The Mediterranean Race. A Study of the Origin of European Peoples. New York, 1901.
- Smith, A. H. Chinese Characteristics. New York, 1894.
 " Village Life in China. New York, 1899.
- Snow, E. C. The Intensity of Natural Selection in Man. Drapers' Company Research Memoirs. London, 1911.
- Stefansson, Jon Denmark and Sweden, with Iceland and Finland. Preface by James Bryce. London, 1916.
- Stefansson, V. The Friendly Arctic. New York, 1921.
 " The Northward Course of Empire. New York, 1922.
- Stoddard, T. Lothrop The Revolt Against Civilization: the Menace of the Under Man. New York, 1922.
- Taylor, Griffith Climatic Cycles and Evolution. The Geographical Review, December, 1919.
 " The Evolution and Distribution of Race, Culture, and Language. New York, 1921.
- Thompson, J. Arthur Lectures on Evolution at Yale University, 1924.
- Tyler, John M. The New Stone Age in Northern Europe. New York, 1921.
- U. S. Census A Century of Population Growth in the United States, 1790-1900. Washington, 1909.
- Vanden Bergh, L. J. On the Trail of the Pigmies. New York, 1921.
- Venn, John Cambridge Anthropometry. Journal Anthropol. Inst., vol. 18, 1889.
- Visher, S. S. A Study of the Type of Place of Birth and Occupations of Fathers of Persons in Who's Who in America. 1924-1925.
- Waller, S. E. Six Weeks in the Saddle. London, 1874.
- Ward, Lester F. Applied Sociology. A Treatise on the Conscious Improvement of Society by Society. Boston, 1906.
 Quoted by Elliott, G. F.
- Wetzel Hunting with the Eskimo. New York, 1910.
- Whitney, Harry A History of China. New York, 1901.
- Williams, F. W. The Manchu Conquest of China. The Journal of Race Development, vol. 4, no. 2, 1913.
 " Unpublished manuscript on China.
- Willis, J. C. Age and Area. A Study in Geographical Distribution and Origin of Species. Cambridge (Eng.), 1922.
- Wissler, Clarke Man and Culture. New York, 1923.

INDEX

A

- Abbott, E., cited, 245, 374
 Abdul Hamid, 145
 Aboriginal America, anomalies of, 156 *ff.*
 Achæans, 236, 244; migrations of, 240 *ff.*
 Acquired characteristics, inheritance of, 365 *ff.*
 Acquisitiveness, racial trait, 215
 Adams, B., cited, 324, 374
 Adams family, 324, 367 *ff.*
 Adams, Henry, 324
 Adams, John, 325
 Adams, J. F., 324
 Adams, J. Q., 325
 Adaptability, of Greeks, 240 *f.*; 267 *f.*; of Norse, 267
 Adaptation to environment, 34
 Aegeans, 236, 238
 Aerial warfare, 339
 Afghans, raids among, 120
 Africa, aborigines, 73; migrations in, 21, 59; Norse in, 254; pastoralism in, 112; Proto-Australoids in, 89; Proto-Negroids in, 89
 Agassiz, L., 325
 Age, and area, 80; of fathers, 365 *ff.*
 Agriculture, in Arizona, 108; Icelandic, 274 *f.*, 283; origin of, 60; primitive American, 92
 Aigun, 200
 Air Service, 329
 Alaska, 62; climate of, 63; Indians of, 53; insanity in, 67
 Alcæus, 241
 Alcott, L. M., 324
 Aleppo, 140
 Aleutian Islands, 102
 Algeria, nomads of, 123; pirates of, 297
 Algonkians, 90, 91 *ff.*
 Alikaluf, 89 *f.*, 92
 Alpine race, 83 *f.*, 207, 210 *ff.*; achievements of, 231; in Crete, 237 *f.*; defined, 5; genius of, 228; racial position of, 77
 Althing, 291 *f.*
 Amazon River, 71
 America, causes of greatness, 308 *ff.*; contrast with Europe, 161; early culture of, 61; early immigrants, 61; eminent men in, 349; migrations in, 77; natural selection in, 301 *ff.*; political leaders in, 227; racial character in, 90; racial impoverishment in, 364; scientists in, 342; suppression of, 61 *ff.*
 American Indians, origin, 63 *ff.*
 American Museum, 33, 35
 American Revolution, 306
 Americans, character of, 330 *f.*; selection of modern, 301 *ff.*
 Amoy, vehicles in, 164
 Anadyr Peninsula, glaciation in, 55
 Andrews, C. M., 302, 374
 Angkor Tom, 11
 Angkor Wat, 10 *ff.*
 Angles, 248, 265, 303
 Anhwei, famines in, 177, 182
 Animals, during famines, 180; in glacial Europe, 51; origin of domestic, 21
 Anomalies of aboriginal America, 88 *ff.*
 Antarctica, winds of, 48
 Anthropoids, as human ancestors, 27
 Anthropology, generalizations of, 74
 Ape-man, 31; of Java, 24
 Arabia, migrations in, 59; nomadism in, 114 *ff.*; deserts of, 57
 Arabs, character of, 115 *f.*; leadership among, 153; migrations of, 208; in Sicily, 266
 Aral, Sea of, 57
 Arcadia, 243
 Architecture, Norman, 265 *ff.*; relation to selection, 18
 Arctic hysteria, 68 *ff.*
 Arctic problem, 67
 Area, and age, 81
 Aridity, in Central Asia, 27; and Chinese migrations, 149; and human dispersal, 24; and natural selection, 44
 Aristocracy, in England, 250; in Greece, 245
 Aristotle, 246
 Arizona, 92; agriculture in, 108
 Arkansas, eminent men in, 317
 Armenians, character of, 137 *ff.*, 146; deportations of, 139 *ff.*; physique of, 140; migrations of, 208

averaging not far from two among the highly skilled. In each group of occupations I have added the word "young" to the upper line because the men in that particular occupation average younger than the others, and therefore their families are not so near completion as are those of older men, such as foremen, bankers, officials, and the other higher categories. It seems safe to say that at least six children, and perhaps more, are born to the average mine operative, and that not less than five of these live well beyond infancy. On the other hand, it is very doubtful whether the chemists, assayers, and metallurgists in our table will have an average of as many as three children, so that not much over two and a half will survive far into childhood. After infancy is past the chemists' children may have nearly as high a death-rate as the children of the miners. Snow, in a paper on *The Intensity of Natural Selection in Man*, has confirmed Pearson's conclusion that if the death-rate is high in the first year of life, as it is among the children of mine operatives, it is relatively low in succeeding years. On the contrary, a low death-rate in infancy means that the later death-rate is higher than it would have been under the same conditions of environment if the weaker infants had perished.

The case of the chemists appears still worse when we remember that even though the proportion of married men (91 per cent) among a picked body of leading scientists has been found by Cattell to be as large as in the population as a whole, the proportion among Harvard graduates over fifty years of age is only 72 per cent. Moreover, in both groups the number of childless marriages is large because of the relatively advanced age of the wives. For example, among leading men of science whose families were presumably complete, 22 per cent of those who were married were childless. Again among these scientific men the average completed family amounts to only 2.23 children. As the death-rate among the children up to the usual age of marriage is about 120 per thousand, the average number of children reaching that age is 1.96. This, however, takes no account of the scientists who are not married. If they are included,

- leadership in, 327; natural selection in, 329
 California Institute of Technology, 327
 Cambodia, ruins in, 10 *ff.*
 Cambridge University, cephalic index at, 31
 Campbell, G., 168, 195 *f.*, 197 *f.*, 374
 Canada, ice in, 63; scientists from, 312
 Canals, in Shantung, 171
 Cannibalism, in China, 177 *ff.*, 188 *f.*
 Canton, 199, 202; first Chinese in, 149; Hakkas in, 167
 Cantonese, character of, 160
 Cape Horn, 91
 Caravan roads, importance of, 131
 Caribbean Sea, colonization schemes in, 302
 Carr-Saunders, 362, 374
 Caspian race, Dixon's, 83 *f.*, 89, 207, 209, 257
 Caspian-Mediterranean blend, 90, 92
 Cathay, 152
 Catholics, eminence among, 320. *See* Roman Catholic Church
 Cattell, J. McK., 342, 346, 358 *f.*, 374
 Caucasus, migrations in, 59
 Celibacy, 340 *ff.*
 Central America, civilization in, 61; ruins in, 11
 Central Asia, decline of glacial period in, 58; migrations in, 57; upheaval of, 27
 Central Europe, migrations in, 77
 Cephalic Index, 77 (map); 79 (map). *See* Head form, Broad-heads, Long-heads, and Round-heads
 Chang La, 26
 Channing, W. E., 325
 Chaplicka, quoted, 70
 Character, of Americans, 333; of Dutch, 333; of English, 333; and environment, 286 *ff.*; geographical distribution of, 215 *ff.*; of Germans, 333; of Indians, 65; of Turks, 333
 Charity, among Chinese, 192; and natural selection, 336
 Charlemagne, 258 *f.*, 261
 Chehsi, 182
 Chekiang, 180, 182; famines in, 196; Hakkas in, 196; officials from, 161
 Chemists, children of, 358
 Chi, 178
 Chicago, age of fathers in, 365
 Chihli, famines in, 177 *f.*; migrations from, 200 *ff.*; officials from, 161
 Children, 357; effect of migrations on, 13, 304; per family, 194, 353 *ff.*; mortality of, in Crete, 238; sale of, in China, 177, 187 *f.*
 Ch'in, 148
 China, early migrations in, 21, 58; European contact with, 164 *f.*; famines in, 170 *ff.*; history of, 148, 179, 203 *ff.*; leaders in, 155, 160 *f.*; progress in, 60; rainfall in, 170 *ff.*; selection in, 362; social origins in, 60
 Chinese, *vs.* Americans, 337; brains of, 78; head form of, 77; as invaders, 148; in Manchuria, 200; natural selection among, 184 *ff.*; officials (map), 161; physique of, 185, 333 *f.*; warlike quality of, 155
 Chinese Bannermen, 161
 Chinook Indians, 103
 Chios, 242
 Chosen, 58
 Christianity, in Iceland, 269, 289, 292 *f.*; origin of, 133 *f.*
 Chronicles, book of, 130
 Chukchees, 53; hysteria among, 70; suicide among, 69
 Churchill family, 367
 Cities, birth rate in, 346; effect on selection, 193 *f.*; leadership in, 346 *ff.*, 348, 352; Mediterranean, 213; test of, 346 *ff.*
 Cityman, 7, 371
 Civilization, defined, 228; European, 335; and glaciation, 332 *ff.*; localization of, 59; map, 225; origin, 60; racial tendencies of, 332 *ff.*
 Clapham, 78
 Clarke, E. L., 309 *ff.*, 349, 374
 Clarke, J. F., 324
 Class distinctions, in America, 307
 Clay, as food, 179
 Cleanliness, relation to climate, 289
 Clergymen, children of, 318 *ff.*, 321, 342 *ff.*
 Cleomenes, 246
 Climate, of California, 328 *f.*; China, 164, 170; Greece, 247; Iceland, 273; Ireland, 248 *ff.*; North Sea region, 252 *f.*; Norway, 219; Sicily, 219, 268
 Climate, effects of, on civilization, 88; in cold regions, 65; evolution, 34; famines, 183; health, 289 *f.*; human character, 92, 288 *ff.*; human origins, 22; leadership, 329; migrations, 349
 Climatic changes, 55, 206; in Iceland, 293 *ff.*; and migrations, 205 *ff.*; in Norway, 260 *ff.*
 Climatic cycles, 47
 Climatic energy, 88; map, 232
 Clothing, 21

- Clutton-Brock, 3, 374
 Coffee, among Arabs, 116
 Coleman, R. V., 174
 Colonists, qualities of, 215, 217
 Colorado, leaders in, 316
 Colorado River, Indians on, 107 *f.*
 Como, persecutions at, 342
 Communism, and natural selection, 215
 Complexion, 78
 Coneybeare, C. A. V., 259, 268, 374
 Confucius, temple of, 164
 Congregationalists, eminence among, 319; natural selection among, 321 *ff.*
 Connecticut, eminence in, 315 *f.*
 Conservatism, in China, 177
 Constantinople, 254
 Constitution, of Iceland, 291; of U. S., 306
 Continents, distribution of headform in, 75; evolution in, 34
 Cooper, Peter, 325
 Copper Island, 102
 Coprolite jaw, 42
 Corn, 92
 Cossacks, 69
 Couvade (map), 79
 Cranial capacity, 77
 Cranial types, among women, 84
 Crete, civilization of, 239 *ff.*; settlers in, 237 *ff.*
 Cross, sign of, 137 *f.*
 Cultural conditions, 79 (map)
 Curiosity, racial trait, 211 *f.*
 Cushman, C., 325
 Customs, racial, 79 (map)
 Cycles, in history, 148, 203
 Cyclonic storms, 47
 Czechs, migrations of, 77
- D
- Dakotas, eminence in, 315 *ff.*
 Dana, R. H., 324
 Danes, 248, 326; in England, 255, 265; among Vikings, 303
 Daniel, Book of, 134
 Davies, G. R., 348 *f.*, 374
 Dead Sea, 57
 Death rate, in cities, 194; in Europe, 279 *f.*; in famines, 184; in Iceland, 279 *f.*, 286 (map); among infants, 358
 Deformation, of heads, 79 (map)
 Delhi, Prince of, 12
 Demetrius Phalerius, 246
 Democracy, 346 *ff.*; among Arabs 125, biological effect of, 355 *ff.*
 Demosthenes, 245
 Denmark, 55; political leaders in, 227
 Denominations, natural selection among, 321 *ff.*
 Deportation, of Armenians, 139 *ff.*
 Deserts, effect of, on evolution, 58, 73; map, 48; migration, 206; racial character, 56
 Deterioration, of races, 18
 Diagrams. *See* Maps
 Diet, in Iceland, 300. *See* Food
 District of Columbia, eminent persons in, 315
 Divorce, in Europe, 213; effect on racial inheritance, 361
 Dix, Dorothy, 324
 Dixon, R. B., 75 *f.*, 77 *f.*, 81, 85, 88 *ff.*, 102, 166, 209, 212, 234, 256 *f.*, 374
 Dnieper River, 354
 Docility, racial trait, 214
 Domestic animals, and civilization, 112; in Iceland, 275
 Domestic plants, origin of, 21
 Door court, 292
 Dorians, 240 *ff.*, 244
 Doughty, C. M., 121, 374
 Drake, 301
 Drought, in Arabia, 121 *ff.*; in China, 154, 170 *ff.*; as cause of famines, 176 *ff.*; effect on raids, 117 *f.*; in Sicily, 218
 Dublin, 254
 Duckworth, 78
 Dutch, character of, 333
 Dyradomr, 292
- E
- Earthquakes, in Iceland, 271, 294, 298
 East, E. M., 334, 362, 375
 East Anglia, 326; home of Puritans, 302
 Eastern Tsin, 195
 Economy, relation to famines, 185 *ff.*
 Eddas, 256 *ff.*
 Education, in America, 306; in Europe, 223; effect on inheritance, 314, 320; effect on leaders, 349; effect on selection, 344; leaders in, 223 (map)
 Edwards, H. J., 244, 375
 Egypt, 54; domestic animals in, 113; relation to America, 61; migrations to, 59
 Eirik Eymundsson, 259
 Elbe, Norse at, 254
 Eliot, C. W., 324, 346, 359, 375
 Elizabeth, Queen, 301
 Elliot, G. F. L., 27, 375
 Elliot (Odysseus), 144, 375

- Ellis, H., 302 *f.*, 365, 375
 Emerson family, origin of, 303
 Emerson, R. W., 325
 Eminence, distribution of, 228, 303, 309, 312, 314, 347 *ff.*
 Emotional selection, 322 *f.*
 Empress Dowager, 151
 Encyclopædia Britannica, 220 *ff.*, 230, 235, 277, 279
 Energy, and genius, 233
 Engineers, eminent children of, 319
 England, character of, 222, 333; genius in, 220 *ff.*, 302 *f.*; immigration to, 248, 342; versus Ireland, 248 *f.*; migrations from, 250; Normans in, 265 *f.*; Norse in, 261 *f.*, 264; persecutions in, 342; scientists from in U. S., 312; in sixteenth century, 301 *f.* *See* British, and English
 English, in Iceland, 295 *ff.*; migrations of, 77. *See* British, and England.
 Environment, adaptation to, 34; and character, 286 *ff.*; and genius, 228; in Iceland, 299; and inheritance, 309 *ff.*, 320; and leadership, 348 *ff.*; potency of, 92; and social position, 78
 Ephesus, 242
 Epidemics, in Iceland, 294
 Episcopalians, 321 *ff.*; children of, 319
 Erna, 257
 Esau, 129
 Eskimos, 53, 67, 89 *f.*, 92; cleanliness among, 289
 Esther, Book of, 134
 Ethelbert, 259
 Euphrates River, 120
 Europe, celibacy in, 341; character of, 220 *ff.*; in China, 165; center of civilization, 60; contrast with America, 88; contrast with Asia, 53; glacial period in, 49, 51 *f.*, 56, 58; evolution in, 336 *ff.*; land connections of, 42; leadership in, 234; migrations in, 206 *ff.*; races of (map), 76, 77; type of civilization, 325
 Europeans, classification of, 235; in tropics, 51
 Evangelists Island, 91
 Evolution, centers of, 33; human, 36 *ff.*; mental, 332 *ff.*
 Examinations, Chinese, 152, 161
 Extroverts, 213
- F**
- Factories, effect on character, 337
 Family, in China, 188 *f.*; rural vs. urban, 355; size of, 310, 354, 357, 366 *ff.*; size according to occupation of fathers, 357; status of, 360
 Famine, in Chekiang, 196; in China, 154, 156, 170 *ff.*, 176 *ff.*; deaths in, 184; in England, 295, 297; in Iceland, 270, 274, 295, 297; in Ireland, 248 *f.*; and migration, 199; relief of, 189
 Farmers, birthrate among, 353 *ff.*; chronic depression of, 352; leaders among, 347, 352
 Fathers, of eminent men, 357; age of, 365 *ff.* *See* also Eminence
 Feet, of Chinese women, 162 *f.*; of Hakka women, 168
 Feminism, 346 *ff.*, 360 *ff.*
 Fidelity, among raiders, 127
 Filial piety, 197
 Finland, health in, 23; literature in, 226; Norse in, 255
 Fishermen, birth rate among, 353 *ff.*; death rate among, 286 *f.*; among Haidas, 101; in Iceland, 298
 Flemings, as migrants, 303, 342
 Floods, in China, 170 *ff.*, 176 *ff.*; in Iceland, 271
 Florida, eminent persons in, 316, 318; human relics in, 61
 Food, among Arabs, 116, 120; in China, 179, 184; in Iceland, 300; of primitive man, 28; of shepherds, 116
 Forbes, C. S., 375
 Foreign-born, in U. S., 353
 Forests, Miocene, 28
 Formosa, Chinese in, 150
 Forty-niners, 328 *f.*
 Foxhall man, 42
 France, migrants in, 77, 303; Norse in, 254, 261, 264; persecutions in, 342
 Franklin, Benjamin, 325
 Freeman, E. A., 265 *ff.*, 375
 French, in Iceland, 297
 French Indo-China, ruins in, 10 *ff.*
 Friends, eminent people among, 319
 Fró á, 291 †
 Fuchow, 202; migrants from, 196; vehicles in, 164
 Fukien, 198; Hakkas in, 196
 Furness, H. H., 324
 Furniture, among Arabs, 124
- G**
- Gaelic belt, map, 79
 Galilee, 131 *f.*
 Galton, F., 341 *f.*, 365, 368, 375
 Ganges River, 14

- Garonne, Norse in, 254
 Gautier, cited, 123, 375
 Genius, distribution in England, 303; in Europe, 233; maps of, 223, 229, 286, 316. *See also* Eminence and Leaders
 Geographical distribution, of character, 215 *ff*
 Germans, birth rate of, 354; character of, 214, 222, 333; head form of, 77; migrations of, 77; political leaders in, 227; relation to Turkey, 142
 Gibbs, Philip, 266, 330, 375
 Gilfillan, S. C., 375
 Girls, in China, 162 *f.*, 187 *f.*
 Glacial period, 38, 47 *ff.*, 58, 63; causes, 47; effect on evolution, 49, 332 *ff.*; in Europe, 53, 205 *f.*
 Glaciation, map of, 48
 Gobineau, A. de, 1, 375
 Goodwin, J. A., 375
 Gorm, 259
 Government, relation to famines, 177 *f.*, 180 *ff.*; among nomads, 115 *f.*
 Grand Canal, 171
 Grant, M., 1, 375
 Grass, distribution of, 37; as food, 176
 Gray, Dr., cited, 194, 375
 Greece, achievements of, 231; advantages of, 60; population of, 246
 Greeks, character of, 236 *ff.*; migrations of, 208; racial feeling of, 2; science among, 212; in Sicily, 266
 Greenland, hysteria *Arctica* in, 69; winds of, 48
 Grimsey Island, 280
 Grinnell, G. B., 375
 Gulf Stream, 274
 Gunnlaug Ormstunga, 292
- H
- Haidas, character of, 109; civilization of, 99 *f.*; origin of, 102
 Hainan, settlement in, 150
 Hair, as racial trait, 77 *f.*; loss of, 21
 Hakkas, 167, 194 *ff.*
 Hale, E. E., 324
 Hall of Fame, 324 *f.*
 Han dynasty, 177
 Hands, evolution of, 29 *ff.*
 Hangchow, 182
 Harbin, 165, 200
 Harems, 140, 145
 Harold Fairhair, 258 *ff.*, 262
 Harvard graduates, children of, 358 *f.*
 Hawes, cited, 237
 Hawthorne, N., 325
 Head, deformation of, 79 (map); evolution of, 29 *ff.*, 75; form of, 62, 74, *ff.*, 77 (map), 228
 Head-form, criterion of race, 75; inheritance of, 85; relation to genius, 228
 Health, in Iceland, 300; map of, 225, 231 *ff.*; and progress, 88
 Heber, 130
 Hebrews. *See* Jews
 Hecate, 101
 Hecataeus, 237, 244
 Helga, the Fair, 292
 Hellas, settlement of, 242 *ff.*
 Herd instinct, 212, 214
 Herding, 112. *See* Nomads, Nomadism.
 Herodotus, 246
 Hezron, 129
 Higginson, T. W., 324
 Himalayas, effect on migrations, 59; in Miocene period, 25
 Hing-Ning, 168
 Historians, in Europe, 223 (map)
 Hiung-nu, 148, 202
 Hoang-Ho, 174, 181
 Hodge, F. W., 107, 375
 Hoklos, 196 *f.*, 203
 Holland, 255; art in, 225; migrations into, 303; Norse in, 261; political leaders in, 227; Puritans in, 304; scientists from, 312
 Holmes, O. W., 325
 Homer, 237, 239, 241
 Homicide, in Europe, 213 *f.*
 Honan, famines in, 176 *f.*; migration from, 196-198
 Hongkong, 200
 Hopeh, famines in, 177
 Horses, among Arabs, 124; evolution of, 35 *f.*
 Hospitality, among nomads, 126
 Hottentots, 85 *f.*
 Houses, in China, 172
 Howeitats, 117
 Hrafn, 292
 Hsu, 178
 Hu, 180
 Huguenots, 222, 248, 342; in America, 305
 Human character, first steps in, 20 *ff.*
 Human evolution, abnormal environment of, 36 *ff.*
 Human remains, 39, 61, 64
 Humidity, 23
 Humphreys, S. K., 346, 375
 Hungarians, birth-rate of, 354

- Hungary, achievements of, 231; literature in, 226
- Huns, invasions of, 195
- Huntington family, 367 *ff.*
- Hupa Indians, 103
- Hupeh, famines in, 177
- Hutchinson, Mrs. Anne, 322
- Hysteria Arctica, 68
- I
- Ibn Khaldun, 123
- Ice Age, 63. *See* Glacial Period
- Iceland, 264 *ff.*; agriculture in, 274 *f.*, 283, 294; architecture in, 295 *f.*; books in, 284; changes in character in, 284; Christianity in, 289; cleanliness in, 289; climate of, 273 *ff.*, 289 *ff.*, 300; compared with New Hampshire, 280; constitution of, 291; death rate in, 279 *f.*, 286; diet in, 300; domestic animals in, 275; earthquakes in, 294, 298; education in, 280 *f.*; eminent men in, 279; environment of, 270 *ff.*, 300; epidemics in, 274, 295; fisheries in, 275 *f.*, 284, 298; foreigners in, 272; health in, 300; illegitimacy in, 281; isolation of, 272; library references to, 277; literature of, 226, 278 *ff.*; migrations to, 211 *f.*; mode of life, 282 *f.*; natural selection in, 284, 299; Norse in, 254 *ff.*, 262; Norwegian relations, 294 *ff.*; pirates in, 297; printing in, 279; population of, 270; racial character in, 299; Reformation in, 296 *f.*; religion of, 272; ship-building in, 296; selection of settlers, 268; small-pox in, 297; summary of history, 298 *ff.*; syphilis in, 281 *f.*; trade of, 295 *ff.*; trees in, 274, 294; temperature of, 91; volcanic eruptions in, 294, 297 *f.*; witches in, 297
- Iceland moss, 283
- Iceland spar, 272
- Illegitimacy, in Iceland, 281
- Illinois, eminent men in, 316
- Immigrants in U. S., character of, 309 *ff.*; factory work of, 353; head-form of, 74
- Imperial clan, 152
- Implements, racial relations of, 79 (map)
- Inca, 88, 92, 273
- India, 205; migrations in, 12, 59; mountains of, 26; racial origins in, 60
- Indians (American), character of, 66, 71, 88; natural selection among, 68; of South America, 24
- Individualism, racial trait, 211 *ff.*
- Indo-China, Chinese in, 150; ruins in, 10 *ff.*
- Indo-European race, 5
- Indus River, 26
- Industry, and birth rate, 353 *ff.*
- Inheritance, and achievement, 352; of acquired characteristics, 365 *ff.*; Athenian laws of, 245; *vs.* education, 314, 320; *vs.* environment, 309 *ff.*, 320; of head-form, 85; persistence of, 277 *f.*
- Intellectual awakening, in England, 301 *ff.*
- Intellectual selection, 322 *f.*
- Interest, rate of, in China, 180
- Introversion, racial trait, 213 *f.*
- Invasions, of China, 183, 195; and migration, 199
- Inventions, and birth rate, 357
- Ionian migrations, 225
- Ireland, eminent persons in, 225; land tenure in, 181; library references to, 277; migrations from, 77; Norse in, 254 *f.*, 264, 261; political leaders in, 227
- Irish, character of, 215, 236, 247 *ff.*; in Iceland, 254
- Iroquois, 90 *ff.*, 109
- Irrawadi River, 15
- Irrigation, primitive, 107 *f.*; in Turkey, 142
- Ishmael, 130
- Isolation, of Iceland, 271; factor in religion, 133 *f.*
- Israelites. *See* Jews
- Italy, birth-rate in, 354; celibacy in, 344; land tenure in, 177, 181; Normans in, 265 *f.*; Norse in, 254 *f.*; persecutions in, 342
- J
- Jackson, H. H., 324
- Jacob, 129
- Jael, 130
- Japan, 205; effect of ice age in, 58
- Japanese, adaptability of, 267; scientists in U. S., 312
- Jarls, among Norse, 256 *f.*
- Java, apeman of, 39; Chinese in, 150
- Jaw, evolution of, 30
- Jebel Druze, 118
- Jerahmeel, 129
- Jericho, 129
- Jesus, 132 *f.*
- Jewett, S. O., 324
- Jews, character of, 129 *ff.*; head-form of, 74; natural selection among, 135 *ff.*

- racial feeling of, 2 *f.*; scientists among, in U. S., 312
 Job, 129
 Jochelson, 69
 Jordan, D. S., 324
 Joseph, 129
 Judah, Tribe of, 131
 Judaism, 133 *f.*
 Judea, isolation of, 130, 132
 Judges, Book of, 130
 Junkers, 214
- K
- Kaffirs, origin of, 86
 Kalahari, 87
 Kansas River, floods of, 174
 Kansu, officials from, 161
 Karakorum Pass, 26
 Karls, among Norse, 256 *f.*
 Katla, volcano, 271
 Kautso, 177
 Keary, C. F., 267, 375
 Keith, A., 375
 Kelts, 248
 Kendrew, W. C., 91, 375
 Kent, migrants in, 303
 Khirghiz, 127; agriculture of, 109; cleanliness among, 289
 Kiang Ling, 177
 Kiang River, 177
 Kiansi, 198; famines in, 177; Hakkas in, 196
 Kiangsü, 180; famines in, 177
 Kiang Wei, 177, 180
 Kia-Yian, 168
 Kin words, 79 (map)
 Kings, Book of, 130
 Kingship, in Europe, 259
 Kitans, 152
 Kjartan, 291
 Kneeland, S., 375
 Konia, 142
 Koryaks, hysteria among, 70
 Kroeber, A. L., 103, 375
 Kublai Khan, 151
 Kuczynski, 359
 Kurds, Armenian origin of, 137 *f.*, 140; raids among, 120
 Kwan Chung, 178
 Kwang Tung, 177
 Kwantung, 198
- L
- Labor battalion, 329
 Laki, volcano, 270
 Lambert, R. S., 140, 375
 Lamuts, hysteria among, 70
 Land, Norse ownership of, 256, 258 *f.*; tenure in China, 177, 181 *f.*; value in China, 171
 Landnamabok, 294
 Language, relation to race, 79
 Laos, 196
 Lapps, 53; cleanliness among, 289
 Latin countries, celibacy in, 344
 Latitude, and progress, 158
 Latourette, K. S., 375
 Law, enforcement in Iceland, 291 *f.*
 Lawyers, eminent children of, 319, 342
 Laziness, among nomads, 128; among Turks, 144
 Leaders, among Jews, 135 *f.*; among nomads, 126 *ff.*; among Turks vs. Armenians, 143, 145
 Leaf, W., 236, 239 *f.*, 375
 Le Bon, G., 3, 375
 Lee, Miss M. P., 175 *ff.*, 195, 375
 Leland Stanford University, 327
 Lennox, W. G., 194, 376
 Levirate, 79 (map)
 Lick Observatory, 327
 Limbs, of Pygmies, 78
 Lincoln family, 367 *ff.*
 Linguistic stocks, in America, 62
 Literacy, among Hakkas, 168
 Literary men, map, 223
 Literature, pursuit of, in America, 309 *f.*, 349 *ff.*; in Europe, 223; in Iceland, 226; in Portugal, 225 *f.*; in Spain, 226
 Li Tsuchung, 154
 Lodge, H. C., 324
 Loire River, Norse at, 254
 Longfellow, H. W., 325
 Long-heads, location, 76
 Los Angeles, 328 *f.*; skull at, 61, 64
 Lop Nor, 57
 Lot, 130
 Low Countries, 264
 Lowell, J. R., 325
 Lower California, Indians of, 104 *f.*
 Lowie, R. H., 376
 Lumbermen, birth-rate among, 353 *ff.*
 Lull, R. S., 376
 Lyman family, 367
- M
- MacDougall, W., 209, 211, 267, 376
 Maichan, 168
 Maidu Indians, 104
 "Main St." 331
 Malaria, 219, 246 *f.*; in Crete, 238; in Sicily, 268

- Malay Peninsula, Chinese in, 150
 Malays, in China, 166; cleanliness of, 289
 Malnutrition, in China, 185
 Mamelukes, and Mongols, 148
 Mammals, origin of, 33
 Man, origin in Asia, 20
 Manchu Dynasty, 150 *ff.*
 Manchuria, Chinese in, 200; invasion of, 148; progress in, 165, 169; rainfall of, 170 *ff.*
 Manchus, 183, 203; in China, 148, 166; leadership among, 153; literary degrees of, 161
 Mann, Horace, 325
 Manufacturing, and birth-rate, 353 *ff.*, 357; and character, 272; and leadership, 347
 Maps and diagrams: artists in Europe, 223; birthplaces, of Chinese officials, 161; of eminent Americans, 286; of eminent Europeans, 223, 229; boomerang, 79; cephalic index, 76, 77, 79; civilization, 229; climatic energy, 229, 232; couvade, 79; cultural conditions, 79; customs, 79; death-rates in Iceland, Norway, and Switzerland, 286; deserts, 48; educational leaders, 223; European races, 76, 77; Gaelic belt, 79; genius, in America, 286, 314, 316, 317; in Europe, 223, 229; glaciation, 48; head deformation, 79; health, 231; historians, 223; kin words, 79; levirate, 79; literary men, 223; migrations, 76, 77; military leaders, 229; monoliths, 79; philosophers, 223; political leaders, 229; pressure zone, 48; rainfall, 231; races of Europe, 76, 77; religious leaders, 223; residence of eminent Americans, 316; scientists, 223; snake and sun cults, 79; swan-maiden tales, 79; tattooing, 79; tree growth, 231
 Marco Polo, 152
 Marriage, among leaders, 358; among nomads, 127; postponement of, 343, 365, 368 *f.*; among teachers, 344
 Massachusetts, children in, 359; eminent persons in, 515 *ff.*
 Massacres, of Armenians, 137 *ff.*; of Jews, 135 *f.*
 Matthew, W. D., 21, 23, 33, 376
 Mayas, 92; cleanliness of, 289; hieroglyphics of, 63; ruins of, 11
Mayflower, 304
 Mayor, R. J. G., 286, 376
 McCurdy, G. G., 376
 Meat, among nomads, 121
 Mechanical inventions, and human character, 337
 Mediterranean-Caspian blend, 234
 Mediterranean race, 5, 83, 89, 207 *f.*, 237 *f.*; character of, 209 *ff.*; genius among, 228; in Ireland, 247
 Mediterranean region, 60, 205; history of, 237
 Mei-chau, 198
 Menam River, 15
 Mental evolution, 332 *ff.*
 Mental selection, in war, 338
 Mentality, of apeman, 31
 Merchants, birth-rate among, 354; leaders among, 347
 Mesopotamia, 54; civilization in, 59; Jews in, 134; migrations in, 59
 Methodists, eminent children among, 319; natural selection among, 321 *ff.*
 Mexico, civilization in, 61; land tenure in, 182; library references to, 277
 Middle Kingdom, 153
 Middle States, birth-rate in, 310
 Migrations, to America, 62 *ff.*; in China, 148 *ff.*; concentration in West Asia, 60; in Europe, 206 *ff.*; and glaciation, 58; hardships of, 54; maps of, 76 *ff.*; and natural selection, 12, 18, 151, 203, 303 *f.*; nature of, 65, 241; primitive, 20, 33; tropical, 58
 Miletos, 242
 Military leaders, 223 (map), 227
 Milk, among Arabs, 121
 Mimir, 376
 Miners, birth-rate among, 353 *ff.*, 357
 Ming dynasty, 150
 Ministers, eminent sons of, 326, 342 *ff.*
 Minoans, in Greece, 239 *ff.*, 244
 Minotaur, 239
 Miocene period, 25, 37
 Misgovernment, causes of, 154
 Missionaries, 192, 199; children of, 343; in China, 187 *ff.*, 189; wide knowledge of, 168, 175
 Mississippi, eminent persons in, 318
 Mitchell, Maria, 325
 Mixture of races, 19
 Moab, 114; raids in, 131
 Mohammedanism, converts to, 137 *f.*
 Mohave Indians, 107 *f.*
 Mongol dynasty, 150 *f.*
 Mongolia, after glacial epoch, 58
 Mongoloid race, 83 *f.*, 209; in South Africa, 85

- Mongols, in China, 148, 166, 197; leadership among, 153; literary degrees among, 161; social position of, 77
 Monoliths, 79 (map)
 Montana, eminent persons in, 317
 Moquelumne Indians, 104
 Moral code, among Arabs, 122; in Iceland, 211 *f.*
 Morocco, 54
 Mortality, among children of Crete, 238; in Europe, 232
 Motley, J. L., 325
 Mount Wilson Observatory, 327
 Mousterian people, 53
 Mukden, 165, 200
 Mutations, 6, 78
 Mycenæ, 236; art of, 240
 Myers, J. L., 237 *f.*, 246, 376
- N
- Nanking, 182, 195
 Napoleon, 214
 Natural selection, 1 *f.*; in America, 301 *f.*; and acquisitiveness, 215; in California, 328; among Chinese, 184 *f.*; in Europe, 253; in Greece, 246 *f.*; in Iceland, 299; among Indians, 68; in Ireland, 249 *f.*; among Jews, 133 *f.*; among Manchus, 152; among nomads, 123; among Pilgrims, 303; and racial position, 78; among religious bodies, 321 *f.*; in tropics, 50. *See* Selection
 Nature *vs.* nurture, 309 *ff.*
 Negrito, racial position of, 77
 Negro, 24, 218; optimum temperature for, 23; racial position of, 77
 Negroids, in South Africa, 85
 Nehemiah, Book of, 130
 Nervous diseases, in Europe, 213
 Nevada, eminent persons in, 316
 New England, age of fathers in, 365; birth-rate in, 310; colonization of, 302 *f.*; eminent persons in, 315 *f.*; racial stock of, 343
 New Hampshire, compared with Iceland, 276
 New Mexico, agriculture in, 92, 108; eminent persons in, 315; people of, 92
 Newton, A. P., 302, 376
 New York City, eminent persons in, 316 *f.*; head-form of immigrants, 74
 New Zealand, distribution of plants in, 81
 Nicoll, J., 298, 376
 Ning-hua, 198
 Nomads, and agriculture, 109; Asiatic, 112 *ff.* *See also* Arabs, Kirghiz
 Nomadism, effect on character, 144
 Nordics, 5, 77, 90, 92; brains of, 78; character of, 207, 210 *ff.*; genius among, 228; hair of, 78; leadership among, 153; racial composition of, 83
 Norman Conquest, 255, 264 *f.*
 Normandy, Norse in, 254, 264
 Normans, 248, 264 *ff.*, 326; character of, 265 *f.*; in England, 265; as migrants, 303
 Norse, 253 *ff.*; character of, 216, 260, 267 *f.*; in England, 265; migrations of, 258 *ff.*
 North Africa, early civilization in, 59; glacial period in, 58; racial origins in, 60
 North America, early migrations to, 21; ice in, 63
 Northmen. *See* Norse and Vikings
 North Sea, advantages of, 60; cultural center, 233, 252 *ff.*
 North *vs.* South, in China, 158, 185 *f.*, 203
 Norway, death-rates in, 287; environment of, 216; and Iceland, 294 *f.*; political leaders in, 227
 Norwegians, in England, 255
 Nose, measurement of, 82
 Novakovsky, S., 66, 68, 70, 376
 Novgorod, 254
 Nuchins, 152
 Nurhatchu, 153, 155
 Nurture *vs.* nature, 309 *ff.*
- O
- Occupations, of fathers of notables, 318, 357
 Odin, A., 320, 376
 Odinism, in Iceland, 293
 Oeræfa Jökul, volcano, 270
 Officials in China, 186; birth-places of, 161; degrees of, 152
 Officers, protection of, 339
 Oklahoma, eminent persons in, 316
 Olafr Tryggvason, 292
 Optimum climate, 22
 Orbital indices, 77
 Oregon, 328; eminent persons in, 317; Indians, 103
 Osborn, H. F., 1, 33, 376
 Ottoman Turks, 153
 Over-population, 181 *f.*, 203, 219; in China, 156, 171, 174 *ff.*; in Scandinavia, 260

P

- Pah Sauh, 177
 Pale-Alpine race, 83 *f.*, 209
 Palestine, 129 *ff.*
 Palmyra, 119
 Parable, of races, 7, 370 *f.*
 Parker, E. H., 148 *ff.*, 376
 Parker, T., 324
 Parkman, F., 325
 Persia, 245
 Parthians, relation to Mongols, 148
 Pastoral migrations, of Nordics, 217
 Pastoralism. *See* Nomads, Nomadism, Arabs, etc.
 Peace, effect on racial inheritance, 340
 Pearson, cited, 358
 Peking, birth-place of officials, 161; modernness of, 164; vital statistics of, 194
 Peking Union Medical College, 194
 Pelasgians, 243
 Periodicity, of famines, 183
 Persecution, of Armenians, 137 *ff.*; effect on character, 341; among religious denominations, 321; effect on selection, 135
 Persia, 54, 59
 Persians, racial feeling of, 2 *f.*
 Personal service, and birth-rate, 357
 Pertag, 120
 Peruvians, 92
 Petersson, O., 294, 376
 Pfeiffer, Ida, 376
 Philanthropy, and racial inheritance, 340
 Philistines, 133
 Philosophers, 223 (map)
 Philosophy, and curiosity, 212; distribution in Europe, 223
 Phœnicians, racial feeling of, 2 *f.*
 Physical environment, and racial character, 233
 Physicians, eminent children of, 319, 342
 Pilgrims, origin of, 303 *ff.* *See* Puritans
 Pioneer, in parable, 7, 371
 Piracy, in ancient Greece, 243; in Iceland, 297
 Pithecanthropus erectus, 39
 Plague, 178; in Greece, 246
 Plains, of China, 171 *ff.*
 Plants, age of, 80
 Pliocene man, 31, 61
 Plowman, in parable, 8 *ff.*, 371
 Pogroms, 135
 Poland, birth-rate in, 354; movement from, 77
 Pole of cold, 70
 Political causes of migration, 258 *ff.*
 Political leaders, in America, 227; in Europe, 224, 227; map of, 225
 Population, of Europe in 1800, 235; of Iceland, 270; of Ireland, 248 *f.*; of Greece, 246; increase in, 362 *f.*; stress of, 334
 Portugal, political leaders in, 227; literature in, 225 *f.*
 Potatoes, in Ireland, 228
 Powell, F. V., 294 *f.*, 376
 Preglacial man, 42
 Presbyterians, eminent children of, 319; racial selection among, 321 *ff.*
 Pressure zone, 48 (map)
 Price, Mr., 161
 Primogeniture, in England, 250
 Printing, in Iceland, 279
 Professional men, children of, 342 *f.*, 347
 Progress, relation to health, 88
 Protestants, leaders among, 342 *ff.*; in France, 320, 342; origin of, 214 *f.*
 Proto-Australoid race, 83 *f.*, 90, 92, 166, 209; in Africa, 89
 Proto-Negroid race, 83 *f.*, 90, 92, 166, 209; in Africa, 89; among Norse, 256
 Public service, relation to birth-rate, 357
 Pueblo Indians, 92, 108
 Puget Sound Indians, 103
 Puritans, descendants of, 318, 326, 343; migrations of, 302 *ff.*; selection among, 303 *ff.*
 Pygmies, 40, 78

Q

- Quakers, 305, 322
 Quarrymen, birth-rate among, 353 *ff.*
 Queen Aud, 269
 Queen Charlotte Islands, 99 *ff.*
 Queue in China, 162 *f.*

R

- Races, birth-rate among, 354 *ff.*; classification of, 73; defined, 3; Dixon's 83 *f.*; genius among, 228; kinship of, 74; mingling of, 54 *f.*; plasticity of, 20; relation to environment, 92
 Racial character, 1 *ff.*; in early America, 90; in California, 330; distribution of, 227; in Iceland, 299; and physical environment, 233; and natural selection, 287
 Racial feeling, 2 *f.*
 Racial inheritance, 234
 Racial mixture, 7, 78; in China, 166; in Europe, 253; and glaciation, 59; in U. S., 336

- Racial superiority, 77
 Racial tendencies of civilization, 332
 Racial test of cities, 346
 Rags, in China, 162, 164
 Raids, 115, 117 *ff.*; in China, 175; season of, 123; of Vikings, 256 *ff.*
 Rain, in Arabia, 121; in China, 170 *ff.*
 Rainfall, in California, 227 (diagram)
 Raleigh, Sir Walter, 301
 Ran, goddess, 292
 Randolph, John, 324
 Red Crag, 42
 Red Cross, 140, 188
 Redfield, C. L., 365 *ff.*, 376
 "Red land," 182
 Reindeer, 66
 Relief, in famines, 179, 189
 Religion, distribution in Europe, 223; and environment, 132 *f.*; and natural selection, 341; and persecution, 222; and racial inheritance, 340
 Religious denominations, eminence among, 321 *ff.*
 Religious leaders, 223 (map)
 Residence, of American leaders, 316 (map)
 Revenue and famine, 179, 181
 Reykir hot springs, 289
 Rhine, Norse at, 254
 Rhode Island, eminent persons in, 317
 Rhodesia, 86
 Rhone, Norse at, 254
 Rich vs. poor in China, 177 *ff.*, 182
 Richards, L. E., 324
 Ridgeway, W., 236, 376
 Rigsmal Edda, 256
 Roaring Forties, 91
 Rocky Mountain region, Indians of, 100; eminent persons in, 317
 Roman Catholic Church, 322 *f.*; celibates in, 341; eminent persons in, 319 *f.*
 Romans, as migrants, 248, 303; science among, 212
 Rome, advantages of, 60
 Roundheads, in U. S., 77
 Rumanians, broad heads of, 77
 Rural districts, birth-rate in, 353; leaders in, 348; natural selection in, 194
 Rurik, 254
 Rus, 254 *f.*
 Russell, B., 377
 Russell, W. S. C., 377
 Russia, 227; contact with China, 165, 200; Jewish persecution in, 135; migrations in, 77; Norse in, 254 *ff.*, 261; scientists from, 312; selection in, 340
 Russians, hysteria among, 70
- S**
- Sacramento Indians, 104
 Sagas, 293
 Sahara, 57, 206; migrations in, 59
 Saigon, ruins near, 10 *ff.*
 Saint Paul, 340
 Salwin, R., 15
 Samaria, accessibility of, 132; Israelites in, 131
 Samoyedes, 53
 Samson, 133
 San Francisco, 328 *f.*
 Sand, in Chinese fields, 174
 Sappho, 241
 Saracens, in Sicily, 266
 Savanna belt, 42
 Saxons, 248, 326; conquest of, 258 *f.*; in England, 265; relation to Normans, 264 *f.*
 Scandinavia, center of culture, 252 *ff.*
 School teachers in U. S., 344
 Science, and curiosity, 212; among missionaries, 195
 Scientists, age of fathers, 365; distribution in Europe, 223 (map); origin, in America, 312 *ff.*, 342, 346
 Scotch, character of, 215, 222; migrations of, 77
 Scotch Irish, 247
 Scotland, celibacy in, 344; eminent persons in, 220 *ff.*, 225; Norse in, 254, 264; political leaders in, 227; Presbyterians in, 322; scientists from, in U. S., 312
 Scripps Institute, 327
 Sea captains, children of, 319
 Sea route, to America, 102
 Sea, selective power of, 217
 Seeck, O., 212
 Seeker-for-Truth, in parable, 8, 371
 Seine, Norse at, 254
 Selection, in Crete, 238; among denominations, 321; postglacial, 59.
See Natural selection
 Self-assertion, racial trait, 214 *f.*
 Self-determination, 308
 Selfishness, in China, 171, 186 *ff.*
 Self-reliance, among nomads, 128
 Semites, racial feeling of, 3 *f.*
 Semple, E. C., 269, 377
 Sequoia trees, 260
 Serfs, in Greece, 244
 Sergei, G., 377
 Shakespeare, 301
 Shanghai, character of people, 160
 Shansi, famines in, 177 *f.*

- Shantung, character of people, 160, 163
f.; famines in, 177; migrations from, 200 *ff.*; official greed in, 171; physique in, 185
- Sheep herders, in U. S., 113
- Shen, 180
- Shensi, famines in, 176 *ff.*; migrations from 149
- Show, 180
- Shyok River, 26
- Siam, 15
- Siberia, 66; changes of climate in, 56, 58; climate of, 55, 63; environment of, 217; hysteria in, 70
- Sicily, 84, 216; character in, 218; environment of, 217; health and seasons, 23; head form of immigrants from, in U. S., 74; Normans in, 265 *ff.*; Norse in, 255
- "Sick Man of Europe," 145
- Sissera, 130
- Size of families, 357
- Skin, of man *vs.* animals, 22
- Skull, evolution of, 30, 74; measurements of, 81
- Small-pox, in Iceland, 297 *f.*
- Smiles, Mr., 342
- Smith, A. H., 190, 377
- Snake and sun cults, 79 (map)
- Snorri, 292
- Snow, E. C., 358, 377
- Snow-fields, effect on winds, 48
- Sociability, racial trait, 212
- Social environment, and achievement, 352; and birth-rate, 354 *ff.*
- Socialism, racial effect of, 215
- Soil, and Chinese floods, 173 *f.*
- Solar activity, 47
- Somme River, Norse at, 254
- South Africa, races in, 85 *f.*
- South America, Caspian type in, 89; early migrants to, 21
- South Carolina, eminent persons in, 315, 318; immigrants to, 305
- South *vs.* North, in China, 158, 185 *f.*, 203
- Spain, celibacy in, 344; literature in, 226; migrations in, 77; Norse in, 254; persecutions in, 341 *f.*
- Sparta, helots in, 237; natural selection in, 244 *ff.*; population of, 246
- Speaker-of-the-law, 289, 291
- Specialization, and environment, 34
- Species, origin of, 80
- Spiker, Mr., 168, 199
- Spitzbergen, 273
- Squashea, 92
- "Squeeze," in China, 186
- S'rutavarman, 16
- Stature, 78
- Stefansson, J., 377
- Stefansson, V., 67, 279, 288, 377
- Stoddard, T. L., 346, 377
- Storey, J., 325
- Storminess, 23
- Storms, 47
- Strandloopers, 85 *f.*
- Su, 180
- Suburbs, leadership in, 348, 352
- Suicide, in China, 187 *f.*, 190, 192; among Chukchees, 69; in Europe, 213
- Sultans, capacity of, 145
- Summer Palace, Peking, 151 *f.*
- Summer rain, value of, 108
- Sun cult, 79 (map)
- Sunspots, 47
- Sun Yat Sen, 167
- Swan maiden tales, 79 (map)
- Swatow, 199; Hakkas in, 167; vehicles in, 164
- Sweden, political leaders in, 227
- Swedes, character of, 198
- Swimming, in Iceland, 289
- Swinton, General, 331
- Swiss, character of, 220 *f.*; cleanliness among, 289
- Switzerland, achievements of, 231; celibacy in, 344; death-rate in, 287; political leaders in, 227; scientists from, in U. S., 312
- Syphilis, in Iceland, 281 *f.*
- Syria, civilization in, 59
- Syrian Desert, 114 *ff.*; deportations to, 139
- Szechuan, 177, 203

T

- Taft, W. H., 324
- Taimir Peninsula, glaciation of, 55
- Taiping rebellion, 167 *f.*
- Taishan, 164
- Talifer, 265
- Tartars, 183, 227; invasions of China, 148, 202; leadership among, 153; racial feeling of, 3 *f.*
- Tattooing, 79 (map)
- Taxation, in Norway, 258 *ff.* *See* Revenue
- Taylow, Griffith, 75 *f.*, 77 *f.*, 79, 81, 88, 206, 231, 377
- Teachers, eminent children of, 342; and marriage, 344
- Temperature, in Iceland, 91; and natural

- selection, 44; optimum, 22 *f.*; of Siberia, 55, 90
 Tents, dwellers in, 112 *ff.*
 Texas, eminent persons in, 316
 Thais, 17
 Thaxter, R., 91
 Theft, in China, 175
 Theseus, 239
 Thessaly, 243
 Thing court, 292
 Thirteenth century, disasters of, 17
 Thompson, J. A., 352, 377
 Thorodd, 291
 Thorwaldsen, 279
 Thralls, among Norse, 256 *f.*
 Thrift, and farming, 185 *ff.*
 Thucydides, 242, 246
 Thurio, 291
 Tibet, uncleanness in, 289; migrations in, 59, 149; plateaus of, 25 *f.*
 Tientsin, modernness of, 164
 Tierra del Fuego, 53, 91
 Tlingits, 100
 Tools, first use of, 28
 Torrey, R. A., 184
 Totem poles, of Haidas, 99
 Totemism, 79
 Town meeting, 306
 Trade, relation to birth-rate, 353 *ff.*, 357
 Trade unions and character, 336
 Training, relation to achievement, 352
 Transcaspia, races of, 59
 Trees, diagram of growth, 227; in glacial Europe, 52; in Miocene era, 37
 Trojan War, 240 *f.*
 Tropical environment, effect on human evolution, 23, 40 *ff.*, 49, 51, 58
 Tsi, 178
 Tsinan, compared with Canton, 163
 Tsing, 178
 Tso Hou, 177
 Tsok, 198
 Tuaregs, 123
 Tungus, uncleanness among, 289; hysteria among, 70; migrations of, 149, 195
 Turkestan, invasions from, 148
 Turkey, character of races, 333
 Turkomans, agriculture of, 109; raids of, 120, 126
 Turks, 208, 227; and Arabs, 115; character of, 142 *ff.*; head form of, 77; leadership among, 153; massacres by, 137; and Mongols, 148; political leaders among, 227
 Tyler, J. M., 377
- U
- Ulfgot, 291
 Ulster, 247
 Unitarians, eminent persons among, 319, 321 *ff.*, 324 *ff.*; origin of, 324
 United States, British settlers in, 65; census of, 378; character of people, 330 *ff.*, 333 *f.*; divorce in, 361; evolutionary tendencies in, 336 *ff.*; Indians of, 88; racial mixtures in, 336; round-heads in, 77; school teachers in, 344; size of families in, 357
 Unionism, effect on character, 336
 Universalists, eminent persons among, 319, 321 *ff.*; origin of, 322
 University of California, 327
 University of New York, 324
 Upsala, 259
 Ural Gulf, 54
 Ural race, 83 *f.*
 Urban environment, 348 *ff.*
 Urban vs. rural birth-rate, 353
 Utah, eminent persons in, 315 *f.*
- V
- Vanden Bergh, L. J., 377
 Varangian Guard, 254
 Variability, 23
 Venereal diseases, 194
 Venice, colonies of, 237 *ff.*
 Venn, J., 31, 377
 Verkhoyansk, 70
 Vermont, eminent persons in, 317
 Vienna, 227
 Vikings, 212, 254 *ff.* *See* Norse
 Villages, leaders from, 348
 Virginia, eminent persons in, 318; immigrants to, 305
 Visher, S. S., 312 *ff.*, 318 *ff.*, 347, 352, 377
 Volcanoes, in Iceland, 270 *f.*, 294, 297 *f.*
- W
- Wai River, 177
 Waller, L. F., 377
 Walloons, 303
 Wanderers, in China, 173, 184 *ff.*, 190 *ff.*
 Wahg Chau, 197
 War, biological effect of, 338 *ff.*; European leaders in, 224
 Ward, L. F., 377
 Washington, city, eminent persons in, 315
 Washington Family, origin of, 303
 Washington State, climate of, 328; Indians of, 103

- Webster, D., 325
 Wei, 182
 Wei River, 177
 Wesley, John, 321
 Wetzel, cited, 30, 377
 Whites, children of, in Massachusetts, 359; racial position of, 77
 Whitney, H., 69, 377
 Who's Who in America, 314 *f.*
 Wilder, Dr., 174 *f.*
 William the Conqueror, 255, 264 *f.*, 267
 Williams, F. W., 151, 154 *f.*, 377
 Williams, Roger, 322
 Willis, J. C., 80 *f.*, 377
 Wilson, W., 308
 Winthrop family, origin of, 303
 Wissler, Clark, 377
 Witches, in Iceland, 297
 Wives, purchase of, 190 *f.*
 Women, among Arabs, 117 *f.*; in China, 162, 175; cranial types of, 84; "of the Gentiles," 133; among Hakkas, 167 *f.*; hysteria among, 69; and marriage, 343; and migrations, 13, 304; number of children of, 354; Norse, 218; at Plymouth, 305 *f.*; position of, 307, 360; quarters of, in tents, 130; sale of, 187, 189 *f.*; self-reliance among nomads, 128; 128; in South China, 166; as teachers, 344
 Wrangel, cited, 66
 Wurm ice age, 53
 Wyoming, eminent persons in, 313 *f.*
- Y
- Yaghans, 91
 Yakuts, hysteria among, 70
 Yakutsk, in glacial period, 55
 Yale University Library, 277
 Yang, 180
 Yangtse River, 181 *f.*, 195, 202; settlement of valley of, 150
 Yellow River, floods of, 177. *See* Hoang Ho
 Yen, 178
 Ying, 180
 Yoder, cited, 365
 Yucatan, cleanliness in, 289
 Yukagir, 66
 Yuman Indians, 104 *f.*
 Yunnan, settlement of, 150
- X
- Xenophon, 246
- Z
- Zambesi River, 86
 Zenobia, 118
 Zulus, origin of, 86