Other Books by the Same Author

FIVE BOOKS DEALING WITH THE GENERAL PRINCIPLES OF GEOGRAPHY

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FOUR BOOKS DEALING WITH THE NATURE AND CAUSES OF CLIMATIC CHANGES

The Climatic Factor, as Illustrated in Arid America. Washington, 1914.
THE CHARACTER OF RACES
THE CHARACTER OF RACES

AS INFLUENCED BY PHYSICAL ENVIRONMENT, NATURAL SELECTION AND HISTORICAL DEVELOPMENT

BY

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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 Civilisation 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
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<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>XVIII.</td>
<td>Warlike Normans and Peaceful Icelanders</td>
<td>264</td>
</tr>
<tr>
<td>XIX.</td>
<td>The Persistence of a Selected Inheritance</td>
<td>277</td>
</tr>
<tr>
<td>XX.</td>
<td>The Direct Effect of Environment on Character</td>
<td>286</td>
</tr>
<tr>
<td>XXI.</td>
<td>The Selection of Modern Americans</td>
<td>301</td>
</tr>
<tr>
<td>XXII.</td>
<td>The Racial Tendencies of Civilization</td>
<td>332</td>
</tr>
<tr>
<td>XXIII.</td>
<td>A Racial Test of Cities, Democracy, and Feminism</td>
<td>346</td>
</tr>
<tr>
<td></td>
<td>List of References</td>
<td>374</td>
</tr>
<tr>
<td></td>
<td>Index</td>
<td>379</td>
</tr>
</tbody>
</table>
ILLUSTRATIONS

1. The Pressure Zone between Glaciation and Deserts  Facing page 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  “ “ “  Facing page 80
5. Birthplaces of High Officials in China  “ “ “  162
6. Percentage of Scientists among Eminent Europeans  Between pages 222 and 223
7. Percentage of Eminent Europeans Engaged in Religious, Educational, and Philosophical Work  “ “  Between pages 222 and 223
8. Percentage of Eminent Europeans Engaged in Art and Literature  Between pages 222 and 223
9. Percentage of Historians among Eminent Europeans  Between pages 222 and 223
10. Percentage of Eminent Europeans Engaged in War and Politics  Between pages 230 and 231
11. Distribution of Civilization in Europe  “ “ “
12. Eminent Europeans Born since 1600 A. D. per 10,000 of Estimated Population in 1800 A. D.  “ “ “  Between pages 230 and 231
13. Distribution of Health in Europe  “ “ “
ILLUSTRATIONS

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
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INDEX

A

Abbott, E., cited, 245, 374
Abdul Hamid, 145
Aboriginal America, anomalies of, 156 ff.
Achaean, 236, 244; migrations of, 240 ff.
Acquired characteristics, inheritance of, 365 ff.
Acquisitiveness, racial trait, 215
Adams, B., cited, 324, 374
Adamo family, 324, 367 ff.
Adams, Henry, 324
Adams, John, 325
Adams, J. F., 324
Adamo, 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 ff., 283; origin of, 60; primitive American, 92
Aiguun, 200
Air Service, 329
Alaska, 62; climate of, 63; Indians of, 53; insanity in, 67
Alceus, 241
Alcott, L. M., 324
Aleppo, 140
Aleutian Islands, 102
Algeria, nomads of, 123; pirates of, 297
Algokians, 90, 91 ff.
Alikuluf, 80 ff., 92
Alpine race, 83 ff., 207, 210 ff.; achievements of, 231; in Crete, 237 ff.; defined, 5; genius of, 228; racial position of, 77
Althing, 291 ff.
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 ff.; 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,
INDEX

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;
Hakka 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, 89, 207, 209, 257
Caspian-Mediterranean blend, 90, 92
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).
C. 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
Chefs, 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
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 f., 321, 342 f.
Cleomenes, 246
Climate, of California, 328 f.; China, 164,
170; Greece, 247; Iceland, 273; Ireland,
248 f.; North Sea region, 252 f.; Nor-
way, 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 f.; human origins, 22; leadership,
329; migrations, 349
Climatic changes, 55, 206; in Iceland,
293 f.; and migrations, 205 ff.; in Nor-
way, 260 f.
Climatic cycles, 47
Climatic energy, 88; map, 232
Clothing, 21
INDEX

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
Craniial capacity, 77
Cranial types, among women, 84
Crete, civilization of, 239 ff.; settlers in, 237 ff.
Cross, sign of, 137 f.
Cultural conditions, 71 (map)
Curiosity, racial trait, 211 f.
Cushman, C., 325
Customs, racial, 79 (map)
Cycles, in history, 148, 203
Cycloonic storms, 47
Czechs, migrations of, 77

Demosthenes, 245
Democracy, 346 ff.; among Arabs 125, biological effect of, 355 ff.
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
Dix, R. B., 75 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, 244 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
Dyradomir, 292

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
Elliot, C. W., 324, 346, 359, 375
Elizabeth, Queen, 301
Elliot, G. F. L., 27, 375
Elliot (Odysseus), 144, 375
INDEX

Ellis, H., 302 ff., 365, 375
Emerson family, origin of, 303
Emerson, R. W., 325
Eminence, distribution of, 228, 303, 309, 312, 314, 347 ff.
Emotional election, 322 f.
Empress Dowager, 151
Encyclopedia Brittanica, 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 f.; 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, 190; 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
Fillial 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
Fr6 8, 291 f.
Fuchow, 202; migrants from, 196; vehicles in, 164
Fulken, 198; Hakka 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
INDEX

Caronie, 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
Glacial period, 38, 47 ff.; causes, 47; effect on evolution, 49, 332 ff.; in Europe, 53, 205 ff.
Glaciation, map of, 48
Gobineau, A. de, 1, 375
Goodwin, J. A., 375
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
Gunlauq Ormshtunga, 292

H
Haidas, character of, 109; civilization of, 99 ff.; origin of, 102
Hainan, settlement in, 150
Hair, as racial trait, 77 ff.; loss of, 21
Hakkas, 167, 194 ff.
Hale, E. E., 324
Hall of Fame, 324 ff.
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 ff.
Hawes, cited, 237
Hawthorne, N., 325
Head, deformation of, 79 (map); evolution of, 29 ff., 75; form of, 62, 74, 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
Hiding, 112. See Nomads, Nomadism
Heredotus, 246
Hezron, 129
Higginson, T. W., 324
Himalayas, effect on migrations, 59; in Miocene period, 25
Hing-Ning, 168
Historians, in Europe, 223 (map)
Hsiung-nu, 148, 202
Hoang-Ho, 174, 181
Hodge, F. W., 107, 375
Hoklos, 196 ff., 203
Holland, 255; art in, 225; migrations into, 305; 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 ff.
Honan, famines in, 176 ff.; migration from, 196-198
Hongkong, 200
Hopeh, famines in, 177
Horses, among Arabs, 124; evolution of, 35 ff.
Hospitality, among nomads, 126
Hottentots, 85 ff.
Houses, in China, 172
Howeitat Arabs, 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
INDEX

885

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, 205 f.; books in, 284; changes in character in, 284; Christianity in, 280; 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, 271; 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, 206 f.; religion of, 272; ship-building in, 296; selection of settlers, 268; smallpox 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)
Incas, 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.
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
Jars, 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.;
INDEX

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
Kalabari, 87
Kansas River, floods of, 174
Kansu, officials from, 161
Karalorum Pass, 26
Karls, among Norse, 256
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
Kiangsu, 180; famines in, 177
Kiang Wei, 177, 180
Kia- Yian, 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 f., 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 f.
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
Malaya, 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, 185
Manchus, 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, 161; of eminent Europeans, 223, 229; boom­erang, 79; cephalic index, 76, 77, 79; civilization, 229; climatic energy, 229, 232; couvade, 79; cultural conditions, 79; custom, 79; death-rates in Iceland, Norway, and Switzerland, 286; deserts, 48; educational leaders, 223; European races of, 76, 77; Gaelic belt, 79; genius, in America, 286, 316; 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 ff.
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, C. G., 376
Meat, among nomads, 121
Mechanical inventions, and human character, 337
Mediterranean-Caspian blend, 234
Mediterranean race, 5, 83, 89, 207 ff.; 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
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 ff.; 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, 347 ff., 357
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 ff.
Mohave Indiana, 107 ff.
Mongoloid race, 58
Mongoloid, 58
Mongolia, after glacial epoch, 58
Mongoloid race, 83 ff., 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
Mycenae, 236; art of, 240
Myers, J. L., 237 f., 246, 376
Nanking, 182, 195
Napoleon, 214
Natural selection, 1 ff.; in America, 301 ff.; and acquisitiveness, 215; in California, 328; among Chinese, 184 ff.; 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 ff.; 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 ff.; eminent persons in, 315 ff.; 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., 398, 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 ff.; 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
Oerafa Jäkul, volcano, 270
Officials in China, 186; birth-places of, 161; degrees of, 152
Officers, protection of, 339
Oklahoma, eminent persons in, 316
Olaf 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
INDEX

Pah Sauh, 177
Pale-Alpine race, 83 ff., 209
Palestine, 129 ff.
Palmyra, 119
Parable, of races, 7, 370 ff.
Parker, E. H., 148 ff., 376
Parker, T., 324
Parkman, F., 325
Paraia, 245
Parthiana, relation to Mongols, 148
Pastoral migrations, of Nordics, 217
Pastoralism. See Nomads, Nomadism, Arabs, etc.
Peace, effect on racial inheritance, 340
Pearson, cited, 358
Pekin, birth-place of officials, 161; modernness of, 164; vital statistics of, 194
Pekin Union Medical College, 194
Pelagians, 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 ff.
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
Phoenicians, racial feeling of, 2 ff.
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 ff.; of Greece, 246; increase in, 362 ff.; stress of, 334
Portugal, political leaders in, 227; literature in, 225 ff.
Potatoes, in Ireland, 228
Powell, F. V., 294 ff., 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 ff., 347
Progress, relation to health, 88
Protestants, leaders among, 342 ff.; in France, 320, 342; origin of, 214 ff.
Proto-Australoid race, 83 ff., 90, 92, 166, 209; in Africa, 89
Proto-Negroid race, 83 ff., 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 ff.

R
Races, birth-rate among, 354 ff.; classification of, 73; defined, 3; Dixon's 83 ff.; genius among, 228; kinship of, 74; mingling of, 54 ff.; 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 ff.
Racial inheritance, 234
Racial mixture, 7, 78; in China, 166; in Europe, 253; and glaciation, 59; in U. S., 336
INDEX

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 ff.; 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 us. 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
Sacramento Indians, 104
Sagas, 293
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
Scottish character of, 215, 222; migrations of, 77
Scottish 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
Semitic, 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.
INDEX

Shantung, character of people, 160, 163
f.; famines in, 177; migrations from,
200 f.; official greed in, 171; physique
in, 185
Sheep herders, in U. S., 113
Shen, 180
Shensi, famines in, 176 f.; migrations
from 149
Show, 180
Sicily, 84, 216; character in, 218; environ-
ment of, 217; health and seasons,
23; head form of immigrants from, in
U.S., 74; Normans in, 265 f.; Norse in, 255

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, Pekin, 151 f.
Summer rain, value of, 108
Sun cult, 79 (map)
Sunspots, 47
Sun Yat Sen, 167
Swan maiden tales, 79 (map)
Swatow, 199; Hakka's 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; cell-
bacy 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 f.; 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 f. See
Revenue
Taylow, Grifith, 75 f., 77 f., 79, 81, 88,
206, 231, 377
Teachers, eminent children of, 342; and
marriage, 344
Temperature, in Iceland, 91; and natural
INDEX

selection, 44; optimum, 22 ff.; 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 ff.
Thrift, and farming, 285 ff.
Thucydides, 242, 246
Thurio, 291
Tibet, uncleanliness in, 289; migrations in, 59, 149; plateaus of, 25 ff.
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
Transcaisia, races of, 59
Trees, diagram of growth, 227; in glacial Europe, 52; in Miocene era, 37
Trojan War, 240 ff.
Tropical environment, effect on human evolution, 23, 40 ff., 49, 51, 58
Tsi, 178
Tsianan, compared with Canton, 163
Tsing, 178
Tso Hou, 177
Tso, 198
Tuaregs, 123
Tungus, uncleanliness 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 ff.; divorce in, 361; evolutionary tendencies in, 336 ff.; Indians of, 88; racial mixtures in, 336; roundheads 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 ff.
Urban environment, 348 ff.
Urban vs. rural birth-rate, 353
Utah, eminent persons in, 315 ff.
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., 313 ff., 318 ff., 347, 352, 377
Volcanoes, in Iceland, 270 ff., 294, 297 ff.
W
Wai River, 177
Waller, L. F., 377
Walloons, 303
Wanderers, in China, 173, 184 ff., 190 ff.
Wang 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
INDEX

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 ff.
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 ff.; self-reliance among nomads, 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