PROGRESS OF LITERACY IN VARIOUS COUNTRIES

A preliminary statistical study of available census data since 1900

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MONOGRAPHS ON FUNDAMENTAL EDUCATION—VI

MONOGRAPHS ON FUNDAMENTAL EDUCATION

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PREFACE

The collection and diffusion of information and the preparation of studies on educational problems is a continuous part of Unesco's programme. While numerous assessments of the extent of world illiteracy and the progress in combating it have been made, so far as we know there has not before been any intensive study of its incidence on a comparative international level. Yet it is obvious that the different methods of assessing literacy or illiteracy, the methods of analysing results and computing percentages of either category, must be known before comparisons can be made or conclusions drawn on an international level. Such a study not only makes possible more informed comparison—to see to what degree and in what particulars there has been progress or recession—but also gives some guidance from the experience of others to those who are engaged in or are planning the taking of literacy censuses among groups or populations which have not been enumerated before.

This study should serve another purpose. It is common knowledge that educational work with adults—whether it be of a basic fundamental nature or at an advanced university level—lacks, more than any other field of educational activity, a methodology or even an agreed set of tools for evaluating individual achievements or progress in particular programmes or campaigns. Statistical methods of analysis, while not fully answering this need, do, however, provide a precise and useful tool for such measurement. This demonstration of some possible uses of these methods may then suggest to others ways in which they could be employed elsewhere.

For reasons of space and owing to the incompleteness of data, this study covers only 26 countries, including only those for which illiteracy figures are available for three or more census years since about 1900. In all cases, results from the last census for which figures on illiteracy are available are included. It is planned to supplement this volume in the near future with another study containing available data relating to non-self-governing territories and other dependent areas. When the results of the censuses taken in many countries around 1950 become available it is hoped that they can be included in new editions of these volumes.

It is hoped, too, that these future studies will demonstrate more fully

the extensions of these methods and show what correlations can be made with other elements in the educational and social structures.

A glance at the statistical tables in this book and at the list of sources given makes it clear that the study has used only available census data. Later statements have at times been made on the literacy position in a number of countries but Unesco has deliberately kept to available census data as these, being the most complete, providing the best basis for comparability, and being immediately available, permitted a much earlier appearance of the book. Some countries, again, have conducted censuses later than the ones quoted here, but they have either dropped the question on illiteracy from these or have not yet released tabulated returns on it. Unesco recognzies that in many cases the picture today will be more favourable than it appears here, but as the present purpose is to demonstrate a method of measurement, analysis and comparability, and only incidentally to give relevant figures, it was felt that present publication was justified. There will always be a measure of time-lag, but it is hoped that future volumes will bring the picture more nearly to date.

This study has been prepared by the Statistical Division of Unesco with assistance from the United Nations Statistical Office in the collection of census data. We trust that the study will be of value to all those concerned with the study of literacy and the efforts being made to achieve progress in it.

EXPLANATION OF SYMBOLS

The following conventional symbols are used throughout this volume:

- Category not applicable
- ... Data not available
- Magnitude nil
- * Estimated figure

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INTRODUCTION

PROBLEM OF ILLITERACY

So long as a sizeable portion of the world population remains without the rudimentary knowledge of reading and writing, the problem of illiteracy will continue to be of interest and concern to all who are engaged in activities designed to raise the standards of living and the levels of culture of the peoples of the world. In particular, the public administrator, the educator, the social scientist, and even the economic planner will want to know the number and proportion of men and women who cannot read and write among the inhabitants of their area.

The size of the problem varies in different areas of the world and among different sections of the population. In certain countries of Western Europe, and in certain other areas of the world largely populated by people originating from Western European countries, the problem may be considered of little or no importance. Education has long been compulsory and almost universal in these countries and areas, and the number of persons not able to read and write is confined to an irreducible minimum, composed mainly of the mentally incapable. In other areas, progress in the reduction of illiteracy has been slow, owing to the lack of sufficient means to provide educational opportunities for the whole population, especially where the population is increasing faster than the facilities of education.

Nevertheless, in the majority of countries and areas of the world, remarkable progress has been made in recent decades in the reduction of the number and proportion of illiterates among the population. Such progress can be measured fairly accurately by means of available statistics on literacy and illiteracy, especially those derived from national population censuses.

STATISTICS OF ILLITERACY

Statistical data on illiteracy are generally obtained from three

principal sources: marriage registers, military records and population censuses. The first two sources are unsatisfactory because they refer to limited portions of the population. Even the last source is not entirely satisfactory because of certain serious limitations which are set forth in the following paragraphs. Yet the national population censuses are still the best source available for statistics of illiteracy. They are the only source utilized for the present study.

AVAILABILITY OF DATA

Unfortunately, census data on illiteracy are not available for many areas of the world. In those countries which claim to have little or no illiteracy, such as Denmark, Germany, the Netherlands, Norway, Sweden, Switzerland, and the United Kingdom, the question on literacy has not been included in the census schedule, at least since the beginning of this century. Other countries with very low illiteracy rates, such as Australia, Austria, Canada, New Zealand and the continental United States, have discontinued the use of the question on literacy in their more recent censuses. These cases, however, are not serious since the number of illiterates thus left unaccounted for is negligible. More serious is the lack of census data from areas where illiteracy is believed to be still prevalent, but where its extent cannot be accurately estimated.

For practically all of Africa, except Egypt and the Union of South Africa, illiteracy statistics from census sources are unknown. For large portions of Asia, including China, Mongolia, the States of Indo-China, and the Arab countries of the Middle East, the situation is much the same. Among the American nations, no recent census data on illiteracy are available for Bolivia, Ecuador, Haiti, Paraguay or Uruguay.

Thus, leaving out of consideration those countries where the illiteracy rate is believed to be low, there still remains almost one-third of the world population for whom no census data on illiteracy are available.

RELIABILITY OF DATA

Such census data as are available are not always entirely reliable for various reasons. In the first place, they are subject to all the difficulties inherent in census enumerations such as under-enumeration (when, for example, some groups are unaccounted for), over-enumeration (when, for example, certain groups or individuals are counted twice), omission of certain segments of the population (particularly the indigenous peoples), inaccuracy of reporting, etc. In addition, criteria of literacy and illiteracy are often vaguely stated and variously applied. Finally, no actual test of literacy is feasible in census enumerations, and the word of the respondent or the judgment of the enumerator must be accepted at face value, with all the subjective elements of error involved.

COMPARABILITY OF DATA

The prospect is still more discouraging when an attempt is made to compare illiteracy data between one country and another, or even between different censuses of the same country. Definitions of literacy and illiteracy are widely divergent, ranging from 'can read' or 'cannot read' to 'can or cannot write a short letter to a friend and read the answer'. Ability to sign one's name is in some cases considered as sufficient evidence of literacy, while in others it is not. The population to which any criterion of literacy is applied may be persons of all ages, even including infants who have not yet learned to talk! On the other hand, various age limits have been specified for consideration of literacy, ranging from 5 to 15 years or older.

Methods of tabulation are different for each country and sometimes for each census of a given country. Persons unspecified for literacy may or may not be included with the total population, with the literates, or with the illiterates. Persons of unknown age may or may not be included in the total count of literates and illiterates. Persons who can read only (or who can write only) may be included with the literates or with the illiterates, or given as a separate group considered as neither literate nor illiterate.

LEGITIMATE USES OF DATA

In spite of all the limitations, such census data on illiteracy as have been gathered for the present study still constitute the most useful information available for an historical analysis of the progress of literacy in various countries of the world. Such an analysis will serve to show, for each country examined, the extent of illiteracy existing at the beginning of the period under consideration, the amount and rate of progress made in the reduction of illiteracy during the period and the size of the problem still remaining at the date of the last available census.

Although it would be extremely imprudent to draw any comparisons of the extent of illiteracy between countries, it may be instructive to follow the course of progress within each country over several decades, especially in those countries which have maintained a continuous series of national censuses with fairly consistent data on literacy and illiteracy. Some useful lessons may be derived from such a study of the progress of literacy, country by country, during a specified period of time.

Such an international survey may stimulate the public administrator and the educator in a given country to make further efforts towards the reduction of illiteracy in their own country, and to seek additional knowledge from the experience of other countries which have tackled the same problem more or less successfully in earlier years. The social scientist may find useful the data on the differential illiteracy rates in the various population segments according to sex, age, urban and rural residence, ethnic groups, etc. The demographer and the statistician may find food for thought in the methodological aspects of the study. Finally, the general reader will find herein a fairly comprehensive collection of illiteracy figures relating to 26 countries, each covering several decennial censuses.

SOURCES OF THE DATA

Data used for this study are obtained for the most part from official census reports of the countries concerned. In a few instances additional figures have been taken from unpublished material supplied to Unesco or to the United Nations by the countries concerned or from two international publications: Aperçu de la Démographie des Divers Pays du Monde, 1929-1936, published by the International Statistical Institute, and the United Nations Demographic Yearbook, 1948, published by the Secretariat of the United Nations. A complete list of the national sources consulted in the present study is given on pages 193 to 199.

CHAPTER I

MEASURING PROGRESS OF LITERACY

CRITERION OF LITERACY

The United Nations Population Commission has recommended that literacy should be defined for census purposes as the ability both to read and to write a simple message in any language.¹

In practice, several different criteria have been used in the censuses of the 26 countries included in the present study, some of them quite at variance with the above international recommendation. It is obvious that great caution must be exercised in any attempt to draw international comparisons from the data presented in the following chapters. Even within the same country it may be necessary to take into consideration changes in criteria between different censuses.

On the following pages is given a list of the questions on literacy asked, together with the instructions given to enumerators, in each of the 26 countries at various censuses taken since 1900. For many of the countries, the coverage of censuses is not complete, so that there may have been changes introduced at one census or another which have not been noted. On the whole the list gives a fairly comprehensive idea of the bases on which literacy data have been collected in the national censuses included in the present survey.

List of census questions on literacy (with instructions to enumerators) used in 26 countries at various censuses taken since 1900

Argentina. (1947) 'Do you know how to read?' 'Do you know how to write?' (It is enough to know how to read and write... any language. . . . Return 'No' for persons who can only write numerals or sign their names.)

Belgium. (1900, 1910, 1920, 1930) (Specify whether the person enumerated can both read and write.)

(1947) (Does the enumerated person know how to read and write? 'Yes' or 'No'.)

United Nations. Population Commission, Third Session, 1948. Report (UN Doc. E/805). Lake Success, 1948, pp. 17-18. Mimeo.

- Brazil. (1920) 'Can you read and write?' (Answer 'Yes' or 'No'.) (1940) 'Can you read and write?' (Answer 'Yes' if the person enumerated can read and write and 'No' if illiterate.)
- Bulgaria. (1905) 'Can you read and write, or can you neither read nor write?' (1910) 'Can you ('Yes' or 'No') read and write any language?' (1920) 'Can you read and write any language?' 'Can you only read or only write?' 'Can you neither read nor write?'
 - (1926) 'Can you read and write any language ('Yes' or 'No')?' 'If not, can you only read or only write?'

(1934) 'Can you read and write?'

Burma. (1901) 'Literate or illiterate.'

(1911, 1921) (A person should not be entered as literate unless he is able to write a letter to a friend and read the answer to it.) (1931) 'Literate or illiterate.' (Enter the word 'literate' for all persons who can both read and write a letter in any language.)

Canada. (1911, 1921) 'Can read.' 'Can write.' (If a person can read in any language, the enumerator will reply 'Yes', and by 'No' if the person cannot read. If the person can write in any language the question will be answered by 'Yes', and 'No' if unable to write.)

(1931) 'Can read and write.' (If the person can read and write in any language the question will be answered by writing 'W', but if the person is able to read only in any language write 'R', for a person who cannot read nor write enter 'No'. For a blind person write 'Yes' if the person could read and write in any language before becoming blind or, if, being born blind he or she has been taught to read and write. Do not return any person as able to read and write simply because he can write his own name. For persons under five years of age leave the column blank.)

Newfoundland. (1945) (Every person enumerated was asked if he could read and write, not only his own name, but whether he had a knowledge of reading and writing. For persons who could read and write, the entry was 'RW'; for those who could read only, the entry was 'R'; and for persons who could neither read nor write, the entry was 'No'.)

Ceylon. (1911, 1921) (. . . enter the mother tongue for each person who can read and write it. In the case of a person who can read and write another language . . . enter that language; if anyone can read and write a language in addition to his mother tongue, the latter alone is to be entered. The entry 'None' is to be made in the case of persons unable to read and write any language.)

(1946) 'Whether able to read and write mother tongue; if not what other language.' (Enter . . . the language of the race to which his father belongs under each person who can read and write it. . . . The test of ability to read and write should be whether the person is able to write a short letter and read the reply to it. If the person cannot read and write this language, enter 'No', but if he can read and write another language, add the name of that language after the word 'No'. . . enter 'None' in case of inability to read and write any language.)

Chile. (1907) 'Can you read?'

(1920) 'Can you read?' (Write the word 'Yes' for those who can read, and No' for those who cannot read.)

(1930) 'Can you read?' (Note 'Yes' or 'No'.)

'If you cannot read, do you go to school?' (Note 'Yes' or 'No'.) (These questions are to be put only to persons of more than 8 completed years of age. For children under that age leave the space blank.)

Colombia. (1918) (In the fifth column, enter 'Yes' for those persons who can read and 'No' for those who cannot read; the same procedure should be adopted in respect to the sixth column entitled 'Can write'.)

Cuba. (1943) 'Can you read and write?' (In this column write the word 'Yes' for each person over seven years of age who can read and write any language, and the word 'No' for those persons over 7 years of age who cannot read and write. For children under 7 years indicate only whether or not they go to school.)

Egypt. (1907) 'Able or not able both to read and write.'

(1917) (State whether the enumerated person is able to read fluently a printed paper in some one language. . . . State whether the enumerated person is able to write by himself or from dictation a short letter in some one language. . . . Each of the two questions . . . must be put to each person, whatever his age. Refrain from putting them to children under 5 years.)

Finland. (1910, 1920) 'More than primary education?' 'Able to read and write?' 'Able to read only?' 'Unable to read?' (1930) 'More than primary education?' 'Others able to read and write?' 'Able to read only?' 'Unable to read?'

France. (1901) 'Can you read and write?'

(1911, 1921, 1931, 1936) 'Can you both read and write?'

(1946) 'Can you read?' ('Yes' or 'No'.) 'Can you write?' ('Yes' or 'No'.)

Greece. (1907) 'If you know how to read and write enter "literate"; if not, enter "illiterate".'

(1920, 1928) 'Can you read and write?' ('Yes' or 'No'.) Honduras. (1945) 'Can you read?' 'Can you write?'

Hungary. (1900) 'Are you able to read and write, or only to read, or can you neither write nor read?'

(1910) 'Has completed 8, 6, 4 classes of secondary school or of an institution of the same level; has completed 4, 6 classes of primary school; can read and write, can only read, can neither read nor write.' (Reply to questions . . . by underlining the words in italics.)

(1920) 'Has completed his studies at university, at an institute of applied sciences, or at another institution of higher education; has completed 8, 6, 4 classes of a secondary school; has completed 4, 6 classes of a primary school; can read and write, can only read, can neither read nor write.'

India. (1901) (Enter against all persons, of whatever age, whether they can or cannot both read and write any language.) (1911, 1921, 1931) (Enter against all persons who can both read and write any language the word 'literate'. . . . Only those are to be considered literate who can write a letter to a friend and read the answer to it.)

Italy. (1901, 1911) 'Can read' 'Cannot read'. (1921) 'Can you read?' ('Yes' or 'No'.)

Mexico. (1930) 'Can you read and write?' 'Can you read only?' Philippines. (1939) (Able to read and write: Write 'Yes' for a person 10 years of age and over who can both read and write in any language or dialect, and 'No' for such a person who cannot both read and write in any language or dialect. Do not report a person as able to read and write simply because he can read and write his own name. For persons under 10 years of age, leave this column blank. For persons who can read but not write, obviously, the report . . . should be 'No'.)

Portugal. (1940) 'Can you read?' (Answer, according to the case, 'Yes' or 'No'.)

Spain. (1920) 'Can you read?' 'Write?' (Respond by 'Yes' or 'No'.)

(1940) 'Can you read?' 'Can you write?'

Turkey. (1927) 'Can the enumerated person read printed matter?' (1935) 'Able or unable to read in the new alphabet'. 'Able or unable to write in the new alphabet.'

Union of South Africa (1904, Natal) (Write 'CR' for Cannot Read; 'R' for Read only; 'RW' for Read and Write.)

(1918, European population only.) (Insert 'Read and Write' 'Read only' or 'Cannot Read', as the case may be.)

(1921, Native population only.) (If able to read and write,

insert the figure 1. If able to read only, insert the figure 2. If unable to read and write, insert the figure 3.)

United States. (1900, 1910) (... whether the person enumerated was able to read and ... whether he was able to write.)

(1920) (Write 'Yes' for a person 10 years of age and over who can read any language... and 'No' for such person who cannot read any language. Write 'Yes' for a person 10 years of age and over who can write any language... and 'No' for such person who cannot write any language.)

(1930) (Write 'Yes' for a person 10 years of age or over who can read and write in any language... and 'No' for such person who cannot both read and write in some language. Do not return any person as able to read and write simply because he can write his own name.)

Yugoslavia. (1921, 1931, 1948) (Ask the person whether he can read and write; read only; neither.)

MINIMUM AGE LIMITS

In most countries nowadays the census question on literacy is applied only to persons above a stated minimum age, such as 5 years or 10 years, or some other stated age. Even where no age limit is stated in the census schedule or instructions, the results are often tabulated as from a certain minimum age. One method followed by certain countries, such as Ceylon and Egypt, is simply to exclude all persons under 5 years of age from the computation of literacy and illiteracy rates. There are, however, a number of countries which still publish literacy figures for the total population of all ages, though often accompanied by an analysis of data based on a stated minimum age level.

Table 1 shows, for the 26 countries included in the present study, the criteria of literacy and minimum age limits used in their tabulations on literacy for the various censuses taken since about 1900.

Table 1. Criteria of literacy and minimum age limits derived from census tabulations on literacy in 26 countries: 1895-1948

| Country | Census year | Criterion of literacy in census tabulations | Minimum age (in years) in literacy tabulations |
|--------------|----------------|--|---|
| Argentina | 1895 | <i>C</i> | 6 |
| | 1914 | Can read and write | 7 |
| | 1947 | Can read and write | 14 |
| Belgium | 1900 | Can read and write | О |
| | 1910 | Can read and write | o and 5 |
| | 1920 | Can read and write | o and 5 |
| | 1930 | Can read and write | o and 7 |
| Brazil | 1900 | Can read and write | О |
| | 1920 | Can read and write | o and 7 |
| | 1940 | Can read and write | 5 |
| Bulgaria | 1900 | Can read and write | 0 |
| | 1905 | Can read and write | 0 |
| | 1910 | Can read and write | o and 10 |
| | 1920 | Can read and write | 0 |
| | 1926 | Can read and write | o and 10 |
| | 1934 | Can read and write | o and 10 |
| Burma | 1901 | Can read and write | 0 |
| | 1911 | Can read and write | 0 |
| | 1921 | Can read and write | 0 |
| | 1931 | Can read and write | o and 5 |
| Canada | 1901 | ••• | 5 |
| | 1911 | Can read | 5 |
| | 1921 | Can read | 5 |
| | 1931 | Can read | 5 |
| Newfoundland | 1901 | Can read; can write | 0 |
| | 1911 | Can write | 0 |
| | 1921 | Can read | II |
| | 1935 | Can read | 10 |
| | 1945 | Can read and write | 10 |
| Ceylon | 1901 | Can read and write | o |
| • | 1911 | Can read and write | 0 |
| | 1921 | Can read and write | o and 5 |
| | 1946 | Can read and write | 5 |
| Chile | 1907 | Can read | О |
| | 1920 | Can read | o |
| | 1930 | Can read | 8 |
| | | Can read | |

MEASURING PROGRESS OF LITERACY

| Country | Census year | Criterion of literacy in census tabulations | Minimum age (in years) in literacy tabulations |
|-----------|----------------|--|---|
| Colombia | 1918 | ••• | o |
| | 1928 | ••• | ••• |
| | 1938 | Can read | o and 7 |
| Cuba | 1899 | Can read or is attending school | o and 10 |
| | 1907 | Can read or is attending school | o and 10 |
| | 1919 | Can read or is attending school | 0 and 10 |
| | 1931 | Can read | o and 10 |
| | 1943 | Can read | o and 10 |
| Egypt | 1907 | Can read and write | o |
| 371 | 1917 | Can read and write | 5 |
| | 1927 | Can read and write | 5 |
| | 1937 | Can read and write | 5 |
| Finland | 1900 | Can read; can write | o and 15 |
| | 1910 | Can read; can write | o and 15 |
| | 1920 | Can read; can write | o and 15 |
| | 1930 | Can read; can write | o and 15 |
| France | 1901 | Can read and write | o and 5 |
| | 1911 | Can read and write | o and 5 |
| | 1921 | Can read and write | o and 5 |
| | 1926 | Can read and write | o and 5 |
| | 1931 | Can read and write | o and 5 |
| | 1936 | Can read and write | o and 5 |
| | 1946 | Can read and write | 5 |
| Greece | 1907 | Can read and write | 0 |
| | 1920 | Can read and write | o and 6 |
| | 1928 | Can read and write | o and 8 |
| Honduras | 1926 | Can read | o |
| | 1930 | Can read; can write | o and 7 |
| | 1935 | Can read; can write | o and 7 |
| | 1940 | Can read; can write | o and 7 |
| | 1945 | Can read; can write | o and 7 |
| Hungary 1 | 1900 | Can read and write | O |
| | 1910 | Can read and write | o and 6 |
| | 1920 | Can read and write | o and 6 |
| | 1930 | Can read and write | o and 6 |
| | 1941 | Can read and write | o and 6 |

Persons were also counted as literate who had completed a certain level or schooling, given as four years of secondary school in the 1910 census, four years of secondary or primary school in the 1920 and 1930 censuses, and one year of elementary school in the 1941 census.

| Country | Census year | Criterion of literacy in census tabulations | Minimum age (in years) in literacy tabulations |
|-----------------------|----------------|--|---|
| India | 1901 | Can read and write | 0 |
| | 1911 | Can read and write | 0 |
| | 1921 | Can read and write | 0 |
| | 1931 | Can read and write | o and 5 |
| Italy | 1901 | Can read | o |
| | 1911 | Can read | o and 6 |
| | 1921 | Can read | 6 |
| | 1931 | Can read | 6 |
| Mexico | 1900 | Can read | o and 12 |
| | 1910 | Can read | 0 and 12 |
| | 1921 | Can read | 10 |
| | 1930 | Can read | 10 |
| | 1940 | Can read | 6 |
| Philippines | 1918 | Can read | 10 |
| | 1939 | Can read and write | 10 |
| | 1948 | Can read and write | 10 |
| Portugal | 1900 | Can read | o |
| | 1911 | Can read | 0 |
| | 1920 | Can read | o and 7 |
| | 1930 | Can read | o and 7 |
| | 1940 | Can read | o and 7 |
| Spain | 1900 | Can read | 0 |
| | 1910 | Can read | O |
| | 1920 | Can read | o and 6 |
| | 1940 | Can read | o and 6 |
| Turkey | 1927 | Can read | o and 7 |
| | 1935 | Can read | o and 7 |
| | 1945 | Can read | o and 7 |
| Union of South Africa | 1904 | Can read | o and 15 |
| | 1911 | Can read | 0 and 15 |
| | 1918 | Can read | o and 7 |
| | 1921 | Can read | 0 |
| | 1946 | Can read and write | o and 10 |
| United States | 1900 | Can read and write | 10 |
| | 1910 | Can read and write | 10 |
| | 1920 | Can read and write | 10 |
| | 1930 | Can read and write | 10 |
| Yugoslavia | 1921 | Can read | 12 |
| | 1931 | Can read | II |
| | 1948 | Can read | 10 |

LITERACY, ILLITERACY AND SEMI-LITERACY

The census reports of many countries tabulate in various ways, the number and proportion of persons able both to read and to write, able to read only and unable either to read or to write. If, for the moment, these categories of persons are regarded as literate, semi-literate, and illiterate respectively, their relative proportions at given censuses are shown in Table 2 for 12 countries.

TABLE 2. Percentage of literates, semi-literates and illiterates in the total population at specified age levels, in 12 countries: various census years

| | | | Percentage of persons | | | |
|-------------------------|----------------|-----------------------|------------------------------|-------------------------|---------------------------------|--|
| Country | Census year | Age level years | Able to read and write | Able to read only | Not able to read or write | |
| Bulgaria | 1920 | 10 and over | 53.3 | 0.3 | 46.4 | |
| | 1926 | 10 and over | 60.3 | 0.3 | 39.3 | |
| Canada | 1901 | 5 and over | 82.9 | 2.7 | 14.4 | |
| | 1911 | $_5$ and over | 89.0 | 0.5 | 10.5 | |
| | 1921 | 10 and over | 94.3 | 0.6 | 5.1 | |
| | 1931 | 10 and over | 95.7 | 0.5 | 3.8 | |
| Newfoundland | 1935 | 10 and over | 78.7 | 3.0 | 18.3 | |
| | 1945 | 10 and over | 86.8 | 1.2 | 12.0 | |
| Finland | 1900 | 15 and over | 38.8 | 59.7 | 1.5 | |
| | 1910 | 15 and over | 55.3 | 43.6 | 1.1 | |
| | 1920 | 15 and over | 69.9 | 29.1 | 1.0 | |
| | 1930 | 15 and over | 84.1 | 15.0 | 0.9 | |
| Honduras | 1935 | 7 and over | 30.2 | 2.6 | 67.2 | |
| Hungary | 1900 | 6 and over | 61.4 | 3.4 | 35.2 | |
| | 1910 | 6 and over | 68.7 | 2.6 | 28.8 | |
| | 1920 | 6 and over | 84.8 | 1.4 | 13.7 | |
| | 1941 | 6 and over | 92.6 | 0.3 | 7.1 | |
| India (selected States) | | | | | | |
| Baroda | 1941 | 5 and over | 26.7 | 6.6 | 66.7 | |
| Cochin | 1941 | 5 and over | 41.0 | 2.0 | 57.0 | |
| Delhi | 1941 | 5 and over | 29.1 | 0.6 | 70.3 | |
| Jaipur | 1941 | 5 and over | 6.2 | 0.5 | 93.3 | |
| Jammu and Kashmir | 1941 | 5 and over | 7.0 | 1.0 | 92.0 | |
| Mysore | 1941 | 5 and over | 15.0 | 1.0 | 84.0 | |
| Mexico | 1900 | 10 and over | 22.3 | 3.6 | 74.2 | |
| | | | | | | |

PROGRESS OF LITERACY

| | | | Percentage of persons | | | |
|---|----------------|-----------------------|------------------------------|-------------------------|---------------------------------|--|
| Country | Census year | Age level years | Able to read and write | Able to read only | Not able to read or write | |
| | 1910 | 10 and over | 27.7 | 2.6 | 69.7 | |
| | 1930 | 10 and over | 38.5 | 2.2 | 59.3 | |
| | 1940 | 10 and over | 46.0 | 2.5 | 51.6 | |
| Spain | 1900 | 10 and over | 41.3 | 2.5 | 56.2 | |
| | 1910 | 10 and over | 47.8 | 1.7 | 50.5 | |
| | 1920 | 10 and over | 56.0 | 0.8 | 43.1 | |
| Turkey | 1935 | 10 and over | 20.4 | 0.4 | 79.2 | |
| | 1945 | 10 and over | 30.5 | 0.3 | 69.3 | |
| Union of South Africa (European or white | 1904 | 10 and over | 94.6 | 1.3 | 4.1 | |
| population) | 1911 | 10 and over | 97.0 | 0.7 | 2.3 | |
| | 1918 | 10 and over | 97.9 | 0.8 | 1.2 | |
| (Native population) | 1904 | all ages | 5. I | 1.1 | 93.7 | |
| | 1911 | all ages | 6.8 | 1.2 | 92.0 | |
| | 1921 | all ages | 9.7 | 1.5 | 88.88 | |
| | 1946 | all ages | 21.2 | 8.1 | 77.0 | |
| United States | 1920 | 10 and over | 94.0 | 0.5 | 5.4 | |
| Yugoslavia | 1931 | 11 and over | 54.8 | 0.6 | 44.6 | |

It is thus seen that, with the exception of Finland, the proportion of persons able to read but not write rarely exceeds three per cent of the population. Furthermore, as the population becomes more literate, this percentage of semi-literates generally tends to decrease. Hence the category of semi-literates may be considered to have only passing importance, and to apply to relatively few countries. For greater comparability, the criterion adopted in the present study is to consider all persons as illiterate who cannot both read and write.

However, this does not do away with the problem of comparability in the case of countries which adopt as the criterion of literacy the ability to read without reference to the ability to write. It would appear from Table 2 that the illiteracy rates reported by such countries may very well be understated to the extent of two or three per cent, and allowance may therefore be made on this basis. The special case of Finland is discussed further in the next chapter, on page 87.

PERSONS UNSPECIFIED FOR LITERACY

Many census reports also show the number of persons unspecified for literacy. In computing a percentage of literacy or of illiteracy, it seems appropriate to exclude this number both from the total population and from the number of literates or illiterates. though the practice is not uniform among the countries. Where persons of unspecified literacy are included with either the literates or the illiterates, the resulting rates are affected only in so far as such persons are numerous in relation to the number of literates or illiterates. Where the number of cases of literacy unspecified is small in relation to the total population, or where the illiteracy rate is either very high or very low, their inclusion or exclusion in the total population would not appreciably change the resulting percentages. Where there are a large number of such cases, and the illiteracy rate is neither extremely high nor extremely low, the difference may amount to almost two per cent. as in the example of Portugal, among the countries shown in Table 3.

TABLE 3. Computation of illiteracy rates for total population, 10 years old and over, including and excluding persons of literacy unspecified, in six selected countries: latest census years

| Country | Census | No. of persons | Percentage of illiteracy computed on total population | | | |
|--|--------|----------------------------|---|--------------------------------------|--|--|
| | year | of literacy unspecified | Including literacy unspecified | Excluding literacy unspecified | | |
| Brazil | 1940 | 86 886 | 56.7 | 56.8 | | |
| Chile | 1940 | 91 560 | 25.8 | 26.4 | | |
| France | 1946 | 1 378 623 | 3.3 | 3.4 | | |
| Philippines | 1948 | 316 429 | 37.8 | 38.7 | | |
| Portugal | 1940 | 211 681 | 48.7 | 50.4 | | |
| Union of South Africa (Native population) | 1946 | 118 996 | 70.9 | 72.4 | | |

As far as the computation of percentage rates is concerned, the same results are achieved, of course, if the cases of literacy unspecified are redistributed proportionately among the literates and illiterates. Indeed it may be assumed that this has been done by some countries which present no figures on persons unspeci-

fied for literacy, and give no explanation of this in the published reports.

PERSONS OF UNKNOWN AGE

Most of the census tabulations on literacy also show the number of persons of unknown age but who are specified as to literacy. The question whether such persons should or should not be included in the computation of illiteracy rates for the total population above a minimum age limit is usually of academic interest only. Table 4 which shows the percentages of illiteracy in the populations of five selected countries for various census years, uses two methods of computation, one including and one excluding persons of unknown age. It will be seen that the difference may amount to as much as 0.3 per cent between the two methods of computation.

TABLE 4. Computation of illiteracy rates for total population at specified age levels, including and excluding persons of age unknown, in five selected countries: various census years

| Census | Age level, | No. of persons | Percentage of illiteracy for population at specified age level | | |
|--------------|------------|----------------|--|------|-----------------------------|
| Country year | | years | years of age unknown ¹ | | Excluding age unknown |
| Argentina | 1947 | 14 and over | 64 946 | 13.6 | 13.3 |
| Brazil | 1940 | 15 and over | 30 448 | 56.1 | 56.1 |
| Egypt | 1927 | 10 and over | 38 072 | 85.9 | 85.8 |
| India | 1931 | 10 and over | 757 768 | 90.9 | 90.9 |
| Turkey | 1935 | 10 and over | 71 304 | 79.6 | 79.4 |

For all practical purposes, therefore, it seems reasonable and justifiable to include persons of unknown age in computing illiteracy rates for the total population above the minimum age, provided the minimum age is not above, say 15 years.

ILLITERACY RATES BY AGE-GROUPS

Apart from the questions of a minimum age limit and the treatment of the unknown age-groups, there is still wide variation in the methods of tabulating census data on literacy by age. At one extreme, countries such as Greece and Portugal have gone to great lengths in presenting figures on literacy and illiteracy for every single year of age from 0 to 100 and over. At the other extreme are countries such as Ceylon, which give no classification beyond the minimum age for literacy tabulations.

The United Nations Population Commission, at its fourth session, recommended that the data on literacy and illiteracy should be tabulated, for each sex, by the following age-groups: under 15 years (if the census questions on literacy covered any person under 15), 15 to 19, 20 to 24, 10-year groups from 25 to 64, 65 years and over. If the literacy questions covered the population over 10 years old (or a lower minimum age), the Commission further suggested that the age-group 10 to 14 years should be tabulated separately, in order to extend the amount of information available on an internationally comparable basis. ¹

The data available from the census reports of the countries included in the present study have been analysed by age-groups corresponding, as far as possible, to those recommended by the United Nations Population Commission. In most cases, however, the age-groups had to be adapted to the availability of comparable data for two or more census years.

AGE ANALYSIS BY 'COHORTS'

Wherever possible, an attempt has also been made to analyse the literacy data from successive censuses of the same country by cohorts, that is, groups of persons born within specified periods of time. In some cases, due to irregularities in census periods and age classification used, the data are only approximated for certain cohorts. Furthermore, it has not been possible to make allowances for such factors as mortality rates and immigration or emigration, as the cohorts are followed from one census to the next. In general it may be claimed that any progress in literacy rates shown by the cohorts is due very largely to improved opportunities for education, including self improvement in the knowledge

¹ United Nations. Population Commission, Fourth Session, 1949. Report (UN Doc. E/1313). Lake Success, 1949, p. 29. Mimeo.

of reading and writing. Thus the cumulative influence of education among the younger age-groups and the changing age structure of the population may to some extent be isolated for further study.

DIFFERENTIAL RATES OF ILLITERACY

Besides tracing the progress of literacy in the total population, it will be instructive to compare the differential rates of illiteracy between males and females or urban and rural populations, or by ethnic and language groups, religions, and types of economic activity. Unfortunately, with the exception of the sex difference, such data are available for a few countries only.

MEASUREMENT OF PROGRESS

Several alternative methods present themselves for the measurement of progress in a given country. The most obvious one is to count the number of literate persons from one census to the next and to note the increase in their number. Such a measure has the advantage of simplicity and tangibility, and is particularly susceptible of being used in an inspirational manner, especially in countries where the number of literates is relatively small and increasing rather rapidly. Note the following examples:

Egypt. Increase in number of literate persons (able to read and write), 5 years old and over, 1907-37:

| No. of literates | 1907 | 1917 | 1927 | 1937 |
|---------------------------------|------|-----------------|-------|-------|
| (thousands) Increase since pre- | 609 | 863 | 1 671 | 2 570 |
| vious census (thousands) | • | ² 54 | 808 | 899 |

Portugal. Increase in number of literate persons (able to read), 7 years old and over, 1900-40:

| No. of literates | 1900 | 1911 | 1920 | 1930 | 1940 |
|---------------------------------|-------|-------|-------|-------|-------|
| (thousands) Increase since pre- | 1 156 | 1 476 | 1 743 | 2 193 | 3 110 |
| vious census (thousands) | • | 320 | 267 | 450 | 917 |

MEASURING PROGRESS OF LITERACY

Finland. Increase in number of literate persons (able to read and write), 15 years old and over, 1900-30:

| | 1900 | 1910 | 1920 | 1930 |
|------------------------------|------|-------|-------|-------|
| No. of literates (thousands) | 688 | 1 o36 | 1 438 | 1 998 |
| Increase since previous | | - | | |
| census (thousands) | • | 348 | 402 | 560 |

In these three countries the number of literate persons increased considerably during each intercensal period. Was there satisfactory progress, then, in each case? Let us look at the other side of the picture, noting the changes in the number of illiterate persons.

Egypt. Increase or decrease in the number of illiterate persons (unable to read and write), 5 years old and over, 1907-37:

| No. of illiterates (thousands) | 8 804 | 9 951 | 1927 10 454 | 1937 II 242 |
|--|-------|---------|----------------|----------------|
| Increase or decrease since previous cen- sus (thousands) | • | + 1 147 | + 503 | + 788 |

Portugal. Increase or decrease in number of illiterate persons (unable to read), 7 years old and over, 1911-40:

| | 1900 | 1911 | 1920 | 1930 | 1940 |
|--------------------|-------|--------------|-------|-------|-------|
| No. of illiterates | | | | | |
| (thousands) | 3 384 | 3 489 | 3 416 | 3 549 | 3 228 |
| Increase or de- | | | | | |
| crease since | | | | | |
| previous cen- | | | | | |
| sus (thou- | | | | | |
| sands) | | + 105 | 73 | + 133 | - 321 |

Finland. Increase or decrease in number of illiterate persons (unable to read and write), 15 years old and over, 1900-30:

| | 1900 | 1910 | 1920 | 1930 |
|---------------------------|-------|-------|-------|-------|
| No. of illiterates (thou- | | | | |
| sands) | 1 o87 | 838 | 619 | 377 |
| Increase or decrease | | | | |
| since previous census | | | | |
| (thousands) | • | - 249 | - 219 | - 242 |

The fact is that, owing to the growth of the total population in each country, an increase in the number of literate persons from one census to the next may or may not be accompanied by a corresponding decrease in the number of illiterate persons. Sometimes, indeed, as in the case of Egypt between the census years 1907 and

1917, the number of illiterates may actually increase several times more than the increase in the number of literates.

To measure progress of literacy by the decrease in number of illiterates would have the same disadvantage, but in the opposite direction. For a steady decrease in the number of illiterates may be accompanied by a varying increase in the number of literates, depending on the growth of the total population.

Graph I (see end of book) shows the increase or decrease in number of literates and illiterates in Egypt, Portugal and Finland during their respective periods of time. It will be seen that, while the number of literates steadily increased in each country, the number of illiterates in Egypt also steadily increased; in Portugal it remained more or less constant; but in Finland it showed steady decrease.

In order to take into consideration the changing size of the total population, it would seem preferable to measure progress either by the increase in the percentage of literacy or by the decrease in the percentage of illiteracy. For technical reasons which will be explained later, let us take the reduction in percentage of illiteracy as a measure of progress. Consider again the examples of the same three countries.

Egypt. Changes in number and percentage of illiterates, 5 years old and over, 1907-37:

| , , , , , | 1907 | 1917 | 1927 | 1937 |
|--------------------------------|-------|-------|--------|--------|
| No. of illiterates (thousands) | 8 804 | 9 951 | 10 454 | 11 242 |
| Percentage of illiterates | 93.5 | 92.0 | 86.2 | 81.4 |
| Decrease in percentage of | | | | - |
| illiteracy since previous | | | | |
| census | • | 1.5 | 5.8 | 4.8 |

Portugal. Changes in number and percentage of illiterates, 7 years old and over, 1900-40:

| | - | | | | |
|--------------------------------|--------------|---------------|-------|-------|-------|
| | 1900 | 1911 | 1920 | 1930 | 1940 |
| No. of illiterates (thousands) | 3 384 | 3 4 89 | 3 416 | 3 549 | 3 228 |
| Percentage of illiterates | $74 \cdot 5$ | 70.3 | 66.2 | 8.16 | 50.9 |
| Decrease in percentage of | | | | | |
| illiteracy since previous | | | | | |
| census | | 4.2 | 4. I | 4.4 | 10.0 |

Finland. Changes in number and percentage of illiterates, 15 years old and over, 1900-30:

| No. of illiterates (thousands) | 1900 1 087 | 1910 838 | 1920 619 | 1930 |
|--------------------------------------|---------------|--------------|-------------|------|
| , | • | 030 | 019 | 377 |
| Percentage of illiterates | 61.2 | $44 \cdot 7$ | 30.1 | 15.9 |
| Decrease in percentage of illiteracy | | | | |
| since previous census | • | 16.5 | 14.6 | 14.2 |

This measure is obviously more appropriate, since it is based not only on the changing number of literate or illiterate persons, but also on the changing size of the total population. Even where the number of illiterates was increasing, as in the case of Egypt, or where the number of illiterates remained almost constant, as in Portugal, the reduction in percentage of illiteracy shows that real progress was being made in those countries as well as in Finland, where the number of illiterates was rapidly decreasing.

Another question now arises: Granted that varying amounts of progress were made in each of these countries during the given periods, what was the rate of progress in each case? For instance, in Portugal there was a reduction of 4.2 per cent in illiteracy between 1900 and 1911, of 4.1 per cent between 1911 and 1920, and of 4.4 per cent between 1920 and 1930. Was the rate of progress increasing, decreasing, or remaining constant during those periods?

Note that the reduction of 4.2 per cent was made on the initial amount of 74.5 per cent illiteracy. Hence the relative rate of progress¹ in this case was 5.6 per cent. The relative rates of progress for the next two periods were 5.8 per cent and 6.6 per cent respectively. Thus it may be claimed that Portugal was making relatively faster progress in each successive period between 1900 and 1930. Of course, it is obvious that the rate of progress between 1930 and 1940 was still more accelerated.

Similarly, for Egypt the relative rates of progress were 1.6, 5.6, and 6.3 per cent respectively for the periods between 1907 and 1937, showing a steady acceleration in the rate of progress during the period of 30 years.

Suppose we wish to compare the relative rates of progress between Egypt, 1907-37, and Portugal, 1900-40. Since the lengths of the periods to be considered are not the same for both countries, it is necessary to introduce another measure, the average decennial rate of progress.² As shown in Table 5, the average

$$\frac{P_3}{P_1} \Rightarrow (r - r)^t$$

or $\log P_1 - \log P_1 = t \log (1 - r)$

where $P_1 = initial percentage of illiteracy$

P_s = final percentage of illiteracy

t = time period in decades

r = average decennial rate of progress.

In all the tables in the following chapters, the average decennial rate of progress is expressed as a percentage rate (i.e, $r \times 100$) and generally rounded to the nearest full percentage unit.

¹ Relative rate of progr ss = Reduction in percentage of illiteracy × 100.

Average decennial rate of progress == relative rate of progress averaged geometrically for a uniform time period of 10 years. The formula used is:

decennial rate of progress for Egypt, 1907-37, was about five per cent, and for Portugal, 1900-40, it was about nine per cent.

A possible objection might be raised against the use of the measures just described. It can be shown that a relative rate of progress based on the reduction in percentage of illiteracy accentuates the rate of progress where the initial percentage of illiteracy is low. On the other hand, a relative rate of progress based on the increase in percentage of literacy would have the opposite effect, that is, it would accentuate the rate of progress in those cases where the initial level of literacy is low. The answer to this objection is found in the fact that, in either case, we are dealing with percentages, which can only range from o to 100. Both theoretically and practically, it is not possible to maintain indefinitely any relative rate of progress based on increase in percentage of literacy, for eventually the maximum limit of 100 per cent would be reached where no further progress is possible. the other hand, any given rate of progress based on the reduction in percentage of illiteracy can be maintained indefinitely, for the limit of zero per cent is approached but never actually reached. This agrees with the practical situation in regard to illiteracy, where there will always be an irreducible minimum percentage of illiterates in any given country or population group. Therefore, we have chosen to measure progress of literacy in terms of reduction in percentage of illiteracy.

Graph II (see end of book) shows the reduction in percentage of illiteracy in Egypt, Portugal and Finland. The percentages are plotted on a logarithmic scale, so that the slope of each line indicates the relative rate of progress. Where two lines are nearly parallel, as between Egypt, 1917-27, and Portugal, 1900-20, their relative rates of progress were about the same.

COMPARISON BETWEEN COUNTRIES

Applying the foregoing method to the three countries used as examples, let us now compare the rates of progress in the reduction of illiteracy in each of these countries.

Table 5 shows the various elements of measurement as applied to Egypt, Portugal and Finland in order to assess the amount and rate of progress in each country during the specified periods of time. It is seen at once that the criterion of literacy is not the same for each country; thus a direct comparison between them of the number and percentage of literates and illiterates is not valid. Nor is it valid to compare directly the increase or decrease

in the number of literates and illiterates, since the age levels of the population considered for literacy are not the same and the size of the total population is different in each country.

Element 8, percentage of illiteracy, takes into account the variations due to size of total population, but is still not comparable between countries because of the difference in criterion of literacy (element 1), in age level considered (element 2), and in the length of the time period covered (elements 3 and 4).

Element g is more comparable, but does not take into account the difference in the initial level of literacy shown by element 8 (a), nor the difference in the time period covered.

Finally, element 10 provides a suitable measure for comparison because, allowing for all the variations in the other elements, it refers to the rate of progress within each country, related to the initial level of literacy in each case, and reduced to a common time period. Thus we see that Finland, during its period of years, showed relatively more rapid progress, on the average, than either of the other two countries during their respective periods of time.

TABLE 5. Elements of measurement applied to assess the progress of literacy in Egypt, Mexico and Portugal since about 1900

| Element of measurement | Egypt | Portugal | Finland |
|--|-----------------------|---------------------|-----------------------|
| 1. Criterion of literacy | Can read and write | Can read | Can read and write |
| 2. Age level of population | 5 years and over | 7 years and over | 15 years and over |
| 3. Time period covered | 1907-37 | 1900-40 | 1900-30 |
| 4. Length of period | 30 years | 40 years | 30 years |
| 5. Total population (thousands) at specified age | | | |
| (a) beginning of period | 9 414 | 4 540 | 1 776 |
| (b) end of period | 13 812 | 6 338 | 2 375 |
| 6. No. of literates (thousands) | | | |
| (a) beginning of period | 609 | 1 156 | 688 |
| (b) end of period | 2 570 | 3 110 | 1 998 |
| 7. No. of illiterates (thousands) | | | |
| (a) beginning of period | 8 804 | 3 384 | 1 08 7 |
| (b) end of period | 11 242 | 3 228 | 377 |

| Element of measurement | Egypt | Portugal | Finland |
|---|--------------|--------------|--------------|
| 8. Percentage of illiteracy (a) beginning of period (b) end of period | 93·5 81.4 | 74·5 50·9 | 61.2 15.9 |
| Reduction in percen- tage of illiteracy during period | 12.1 | 23.6 | 45.3 |
| 10. Average decennial rate of progress | 5% | 9% | 36% |

FACTORS RELATED TO PROGRESS OF LITERACY

The limitations of the present study have precluded consideration of other factors related to the progress of literacy in different countries. For example, the introduction and enforcement of compulsory education laws, the provision and extension of opportunities for free public instruction, the special literacy campaigns conducted in many countries, are essential factors in the reduction of illiteracy, but are beyond the scope of this study. Data on school attendance are not available in sufficient amount to be used for a collateral study. For those countries which present census data on the educational level of the population, either in place of or in addition to literacy data, it would certainly be profitable to analyse such data if and when they become more generally available on a comparable basis. For the present, however, this study will be confined to data on literacy and illiteracy available from census publications of the given countries. Those data will be analysed, for 26 countries, in the following chapter, with the countries presented in alphabetical order.

CHAPTER I I

PROGRESS IN VARIOUS COUNTRIES

ARGENTINA: 1895-1947

ILLITERACY IN THE TOTAL POPULATION

The census of 1895 found 1,766,184 persons 6 years old and over who were not able to read and write. This was 54.4 per cent of the total population at that age level. Similarly, the results of the 1914 census gave 2,386,012 illiterates 7 years old and over, being 37.9 per cent of the total population at that age level. At the census of 1947, the tabulation of literacy data was limited to the population 14 years old and over. The results from the last census, together with comparative data from the two earlier censuses, are shown in Table 6.

TABLE 6. Number and percentage of illiterates in the population of Argentina, 14 years old and over: 1895-1947

| | Pop | ulation 14 years old and over | |
|----------------|-------------------------|---|------------------------|
| Census year | Total no. of persons | Persons not able to read and write | Per cent illiterate |
| 1895 | 2 451 761 | ı 305 738 | 53.3 |
| 1914 | 5 026 914 | 1 765 900 | 35.1 |
| 1947 | 11 318 896 | 1 541 678 | 13.6 |

The amount of illiteracy is thus shown to have been reduced by almost 40 per cent between 1895 and 1947. In relation to the initial percentage of illiteracy in 1895, the average rate of progress has been about 23 per cent per decade. ¹

¹ For discussion on the method of computing an average decennial rate of progress, see page 29.

ILLITERACY BY SEX AND AGE

Literacy data by sex and age are not available for the earlier census years. The 1947 census shows illiteracy to be three per cent higher among the female than among the male population 14 years old and over. In the age group 14-29, however, there is no difference between the two sexes. The female illiteracy rate is higher by 3.4 per cent in the age group 30-49, and 9.6 per cent in the age group 50 and over.

TABLE 7. Percentage of illiteracy in the population of Argentina, 14 years old and over, by sex and age: 1947

| | Percentage of illiteracy | | |
|-------------------|--------------------------|------|-------------|
| Age | Both sexe | Male | Female |
| 14 years and over | 13.6 | 12.1 | 15.2 |
| 14-29 | 8.3 | 8.3 | 15.2 8.3 |
| 30-49 | 12.4 | 10.8 | 14.2 |
| 50 and over | 25.1 | 20.6 | 30.2 |
| unknown | 64.7 | 57.4 | 69.9 |

ILLITERACY BY NATIONALITY

The only data available on illiteracy by nationality are from the 1914 census and refer to the population 7 years old and over. At that census, the illiteracy rate for all foreigners was 34.9 per cent, compared with 39.6 per cent for Argentinians. Among the larger groups in the foreign population, nationals of the Ottoman Empire had the highest rate of illiteracy (70.8 per cent), while the British had the lowest (7.9 per cent). No conclusions, however, should be drawn from these figures on the level of literacy in the home countries of these immigrants.

TABLE 8. Percentage of illiteracy in the population of Argentina, 7 years old and over, by nationality and sex: 1914

| | Popula | tion 7 years | old and over | |
|--------------------|----------------------|---------------|----------------|--------|
| Nationality | | Perc | entage of illi | teracy |
| | Total No. of persons | Both sexes | Male | Female |
| All nationalities | 6 301 961 | 37.9 | 34.8 | 41.5 |
| Argentinian | 4 004 313 | 39.6 | 38.9 | 40.2 |
| All foreign groups | 2 297 648 | $34 \cdot 9$ | 29.3 | 44.4 |

| | Population 7 years old and over | | | | |
|------------------|---------------------------------|----------------------------|--------|------|--|
| Nationality | Total No. | Percentage of illiteracy | | | |
| radollality | of persons | of persons Both sexes Male | Female | | |
| Italian | 914 789 | 38.1 | 32.7 | 47.6 | |
| Spanish | 804 861 | 30.2 | 21.3 | 44.7 | |
| Russian | 89 060 | 40.4 | 32.4 | 51.8 | |
| Uruguayan | 83 435 | 23.6 | 24.3 | 22.8 | |
| French | 78 644 | 16.1 | 13.9 | 18.9 | |
| Ottoman | 62 181 | 70.8 | 68.5 | 81.0 | |
| Austro-Hungarian | 37 2 65 | 30.4 | 25.2 | 40.3 | |
| British | 26 980 | 7.9 | 7.4 | 9.2 | |
| German | 26 406 | 8.9 | 6.1 | 14.1 | |
| Swiss | 14 104 | 10.3 | 7.5 | 14.9 | |
| Other | 159 923 | 50.3 | 46.9 | 56.5 | |

ILLITERACY AMONG SCHOOL-AGE CHILDREN

Additional data are available from the 1914 census concerning illiteracy among the school-age population, that is, children 6-13 years old. At that census, there were enumerated 1,485,785 children of school age, of whom 695,283, or 46.8 per cent, were returned as able to read and write; 69,821, or 4.7 per cent, as able to read only; and 720,681, or 48.5 per cent, as able neither to read nor to write. The adding together of the last two groups gives 53.2 per cent illiteracy among the school-age population at that census.

In this connexion it may be noted that the proportion of schoolage children found to be attending school at the time of the census in 1895 was only 31.1 per cent. This percentage had increased to 48.0 at the 1914 census, and at the educational census of 1943 was found to be 75.3. The great increase in the school attendance of school-age children is bound to result in the substantial progress of literacy in the general population when these children pass beyond the school-going ages.

BELGIUM: 1900-30

ILLITERACY IN THE TOTAL POPULATION

In the total population of Belgium of 7 years old and over, there were 1,123,594, or 20.0 per cent illiterates at the beginning of the

century. By 1930, the number of illiterates had been reduced to 402,155 and the percentage of illiteracy to 5.6, which is nearly 15 per cent less than in 1900. This represents an average decennial rate of progress of 35 per cent. The number and percentage of illiterates in the population 7 years old and over, at each of the census years 1900-30, are given in Table 9.

TABLE 9. Number and percentage of illiterates in the population of Belgium, 7 years old and over: 1900-30

| Population 7 years old and over | | |
|---------------------------------|---|--|
| Total No. of persons | Persons not able to read and write | Per cent illiterate |
| 1 5 627 202 | I 123 594 | 20.0 |
| 6 361 979 | 878 936 | 13.8 |
| 6 645 855 | 553 071 | 8.3 |
| 7 150 494 | 402 155 | 5.6 |
| | Total No. of persons 1 5 627 202 6 361 979 6 645 855 | Total No. of persons not able to read and write 1 5 627 202 |

Considering the total population of 15 years old and over, the percentage of illiteracy was reduced from 19.6 in 1900 to 5.9 in 1930, showing a relative rate of progress of 33 per cent per decade. Table 10 gives the number and percentage of illiterates in the population of 15 years old and over, for each of the census years 1900-30.

TABLE 10. Number and percentage of illiterates in the population of Belgium, 15 years old and over: 1900-30

| Census year | Population 15 years old and over | | |
|---------------------------|----------------------------------|--|------------------------|
| | Total No. of persons | Persons not able to read and write | Per cent illiterate |
| 1900 | ¹ 4 571 042 | 894 723 | 19.6 |
| 1910 | 5 156 755 | 693 067 | 13.4 |
| 1920 | 5 549 737 | 435 318 | 7.8 |
| 1930 | 6 232 821 | 369 404 | 5.9 |
| ¹ Excluding pe | rsons of literacy unspecified. | | |

The percentage of illiteracy among the female population is slightly higher than among the male. Since the percentage difference between the sexes was larger in 1900 than in 1930, the relative rate of progress over the whole period shows up slightly better for the female population, as is shown in Table 11.

TABLE 11. Reduction of illiteracy in the population of Belgium, 7 years old and over and 15 years old and over, by sex: 1900-30

| Age and | Per | centage o | of illitera | Reduction | Average decennial | |
|-----------------------|-------|-----------|---------------|-----------|--------------------------|------------------|
| sex | 1900 | 1910 | 1920 | 1930 | of illiteracy 1900-30 | rate of progress |
| 7 years old and over | | | | | | % |
| Both sexes | 20.0 | 13.8 | 8.3 | 5.6 | 14.4 | 35 |
| Male | 18. I | 12.6 | 7.6 | 5.2 | 12.9 | 34 |
| Female | 21.8 | 15.0 | 9.0 | 6.o | 15.8 | 35 |
| 15 years old and over | | • | • | | Ŭ | • |
| Both sexes | 19.6 | 13.4 | 7.8 | 5.9 | 13.7 | 33 |
| Male | 17.1 | 11.7 | 6.7 | 5.5 | 11.6 | 31 |
| Female | 22.0 | 15.1 | 8.9° | 6.4 | 15.6 | 34 |

ILLITERACY BY SIZE OF LOCALITY

Figures on literacy were reported separately for communes of 5,000 or more inhabitants and of less than 5,000 inhabitants. On this basis, it is interesting to observe that, during the period 1900-30, not only was there less illiteracy in the smaller localities, but the relative rate of progress also was more for these smaller localities than for the larger ones. The percentages of illiteracy in these two classes of communes, and their relative rates of progress during the period under consideration, are shown in Table 12.

TABLE 12. Reduction of illiteracy in the population of Belgium, 15 years old and over, by size of locality and by sex: 1900-30

| Size of | Pe | ercentage o | f illiteracy | Reduction of | Average decennial | |
|---------------------|------|-------------|------------------|--------------|-----------------------|------------------|
| locality and sex | 1900 | 1910 | 1920 | 1930 | illiteracy 1900-30 | rate of progress |
| Communes with | | | | | | |
| 5,000 or more | | | | | | |
| inhabitants | | | | | | |
| Both sexes | 20.5 | 14.3 | 8.8 | 6.5 | 14.0 | 32 |
| Male | 17.9 | 12.4 | 7.4 | 5.8 | 12.1 | 31 |
| Female | 22.8 | 16.1 | 10.1 | 7.0 | 15.8 | 33 |
| Communes with | | | | | • | |
| less than 5,000 | | | | | | |
| inhabitants | | | | | | |
| Both sexes | 18.6 | 12.2 | 6.4 | 5.1 | 13.5 | 35 |
| Male | 16.2 | 10.8 | $5.\overline{8}$ | 4.8 | 11.4 | 33 |
| Female | 21.0 | 13.7 | 7.0 | 5.3 | 15.7 | 37 |

The 1930 census report gives more detailed figures on literacy by the following sizes of communes: under 2,000 inhabitants; 2,000—under 5,000; 5,000—under 20,000; 20,000—under 50,000; 50,000—under 100,000; 100,000 inhabitants and over. It appears from Table 13 that the highest percentage of illiteracy was reported for communes with 5,000—under 20,000 inhabitants, and the lowest percentages of illiteracy obtained in both the smallest and the largest class of communes.

Table 13. Percentage of illiteracy in the population of Belgium, 15 years old and over, by size of locality and by sex: 1930

| | Percentage of illiteracy | | | | |
|-------------------------|--------------------------|------|------------|--|--|
| Size of locality | Both sexes | Male | Female | | |
| All classes | 5.9 | 5.5 | 6.4 | | |
| Under 2,000 inhabitants | 4.0 | 3.9 | | | |
| 2,000 to under 5,000 | 6 . o | 5.8 | 4·3 6.3 | | |
| 5,000 to under 20,000 | 7.3 | 6.8 | 7.Š | | |
| 20,000 to under 50,000 | 6.7 | 6.1 | 7.3 | | |
| 50,000 to under 100,000 | 5.4 | 4.2 | 6.4 | | |
| 100,000 and over | 4.9 | 4. I | 5.5 | | |

4LLITERACY IN DIFFERENT AGE GROUPS

Without regard to size of locality, the percentage of illiteracy has been consistently lowest among persons 15-20 years old, both male and female. The school-age population of 7-14 years old started with a relatively higher rate of illiteracy at the earlier censuses, but, with remarkably rapid progress (at the rate of about 45 per cent per decade), was, in 1930, next to the lowest group in percentage of illiteracy. Even the adult and old-age groups, however, have shown consistent progress in the reduction of illiteracy over the entire period.

TABLE 14. Reduction of illiteracy in the population of Belgium, 7 years old and over, by sex and broad age groups: 1900-30

| Sex and | | Percentage | Reduction of | Average decennial | | |
|------------------|------|------------|--------------|----------------------|-----------------------|------------------|
| age group | 1900 | 1910 | 1920 | 1930 | illiteracy 1900-30 | rate of progress |
| Male: | | | | | | % |
| 7 years and over | 18.I | 12.6 | 7.6 | 5.2 | 12.9 | <i>34</i> |
| 7-14 | 22.5 | 16.3 | 12.0 | 3.7 | 18.8 | 45 |
| 15-20 | 10.3 | 6.7 | 3.9 | I .4. | 8.9 | 49 |

| Sex and | Percentage of illiteracy | | | | Reduction of | Average decennial | |
|------------------|--------------------------|------|------|------|-----------------------|----------------------|--|
| age group | 1900 | 1910 | 1920 | 1930 | illiteracy 1900-30 | rate of progress | |
| 21-59 | 14.9 | 9.8 | 5.6 | 4.6 | 10.3 | 32 | |
| 60 and over | 37.5 | 28.9 | 16.9 | 13.3 | 24.2 | 29 | |
| Female: | | | | | | | |
| 7 years and over | 21.8 | 15.0 | 9.0 | 6.0 | 15.8 | 35 | |
| 7-14 | 20.8 | 14.5 | 9.5 | 3.4 | 17.4 | 45 | |
| 15-20 | 8.6 | 5.2 | 2.7 | 0.9 | 7.7 | 53 | |
| 21-59 | 19.3 | 12.2 | 6.8 | 4.5 | 14.8 | 38 | |
| 60 and over | 49.7 | 39.6 | 25.7 | 18.7 | 31.0 | 28 | |

ILLITERACY AMONG SELECTED COHORTS

The census reports of 1900-20 gave detailed tabulations on literacy by year of birth, which enable the percentages of illiteracy for selected cohorts to be calculated. Table 15 shows the progress of literacy among four selected cohorts. The relative rate of

TABLE 15. Reduction of illiteracy in the population of Belgium by specified cohorts: 1900-20

| Cohort | ort Percentage of illiter | | iteracy | Reduction of illiteracy | | Decennial rate of progress | |
|---|---------------------------|------------|---------|-------------------------|------------|-------------------------------|----------|
| | 1900 | 1910 | 1920 | 1900-10 | 1910-20 | 1900-10 | 1910-20 |
| I. Persons born 1856-65: | | | | | | % | % |
| Im. Male | 14.8 | 13.5 | | 1.3 | | 9 | |
| If. Female | 20.0 | 18.8 | • | 1.2 | • | $\check{6}$ | • |
| II. Persons born 1866-75: IIm. Male | 11.4 | 9.7 | 7.6 | 1.7 | 2.1 | 15 | 22 |
| IIf. Female | 13.4 | 11.9 | 9.9 | 1.5 | 2.0 | II | 17 |
| III. Persons born 1876-85: IIIm. Male IIIf. Female | 10.2 9.0 | 7·4 7.8 | | 2.8 1.2 | 2.0 1.5 | 27 13 | 27 19 |
| IV. Persons born 1886-95: | | | | | J | ŭ | J |
| IVm. Male | • | 6.5 | 3.9 | • | 2.6 | | 40 |
| IVf. Female | • | 5.5 | 4.2 | • | 1.3 | • | 24 |

progress was greatest among cohort IV, i.e., persons who were 15-24 years old in 1910; it was progressively lower among each older group of persons and was lowest among cohort I, the group aged 35-44 in 1900. Within each cohort, the male persons showed relatively more progress than the female.

CONSISTENCY AND RELIABILITY OF DATA

The definition of literacy used in the census of Belgium has been, throughout the period under consideration, ability both to read and to write. The instructions to enumerators clearly stated that those who could read only, or even those who could write only, were to be entered as illiterate. Furthermore, persons were not to be considered literate, whose knowledge of reading was limited to the spelling of words, or whose knowledge of writing consisted only of the ability to reproduce a signature or a few words copied mechanically.

As for blind persons who could write and who could also, by the sense of touch, understand the idea expressed by words reproduced by typographical characters specially prepared for their use, such persons were to be considered as able both to read and to write.

The territory of Belgium at the 1930 census included the areas of Eupen-Malmedy, ceded by Germany in 1920. The amount of illiteracy in 1920 in the population of these areas, all ages included, was 12.4 per cent (male, 13.1 per cent; female, 11.6 per cent). These percentages were somewhat lower than corresponding percentages in the population of the rest of Belgium (total, 16.9; male, 16.5; female, 17.2). However, the total population of Eupen-Malmedy in 1920 was only 60,213, being less than one per cent of the total population of Belgium; the inclusion of this population in the census of 1930 could not have affected the validity of comparisons between the 1920 and 1930 censuses so far as percentages of illiteracy are concerned.

BRAZIL: 1900-40

ILLITERACY IN THE TOTAL POPULATION

At the census of 1940, there were more than 13 million persons in Brazil, 15 years old and over, who were counted as illiterate, that

is, not able to read and write. This was more than twice the number of illiterates, at the same age level, reported in 1900, even though the percentage of illiteracy had been reduced from 65.3 in 1900 to 56.1 in 1940.

TABLE 16. Number and percentage of illiterates in the population of Brazil, 15 years old and over: 1900-40

| Popu | llation 15 years old and over | |
|----------------------------|---|--|
| Total No. of persons | Persons not able to read and write | Per cent illiterate |
| 9 752 111 | 6 371 660 | 65.3 |
| 17 557 282 | 11 401 715 | 64.9 |
| 1 23 649 371 | 13 269 381 | 56.1 |
| | Total No. of persons 9 752 111 17 557 282 | No. of not able to read and write 9 752 111 6 371 660 17 557 282 11 401 715 |

Published figures on illiteracy from the 1900 census are not distributed by sex, but the available data for 1920 and 1940 show a substantially larger amount of illiteracy among the female than among the male population. Progress in the reduction of illiteracy between 1920 and 1940 was, however, as rapid among the female population as among the male. For the population 15 years old and over, the reduction of illiteracy by sex is as given in Table 17.

TABLE 17. Reduction of illiteracy in the population of Brazil, 15 years old and over, by sex: 1920-40

| Sex - | Percentage | of illiteracy | Reduction of | Average decennial |
|------------|------------|---------------|-------------------------|----------------------|
| | 1920 | 1940 | illiteracy 1920-1940 | rate of progress |
| | | | | % |
| Both sexes | 64.9 | 56.1 | 8.8 | 7 |
| Male | 57.1 | 49.7 | 7.4 | 7 |
| Female | 72.8 | 62.4 | 10.4 | 7 |

ILLITERACY BY NATIONALITY OR COLOUR

The 1920 report showed illiteracy to be 66.7 per cent among the native Brazilian population of 15 years old and over, as compared with 46.0 per cent among the foreign population.

In 1940, the population was reported on literacy not by nationality but by colour, classified as white, black, brown and yellow. The percentage of illiteracy was lowest in the yellow group (34.4), followed by the white group (47.3), then the brown group (70.8), and finally the black group, which had the highest percentage (79.1). It must be noted, however, that the yellow group constituted less than 1 per cent of the total population of Brazil in 1940.

Table 18. Percentage of illiteracy in the population of Brazil at specified age levels by nationality and sex (1920); and by colour and sex (1940)

| Census year | Nationality | Per | Percentage of illiteracy | | | |
|---------------------------|-------------------------|------|--------------------------|--------|--|--|
| and age level | or Both colour sexes | | Male | Female | | |
| 1920: 15 years and over | Brazilian | 66.7 | 59.5 | 73.7 | | |
| | Foreign 1 | 46.0 | 35.9 | 60.8 | | |
| | White | 47.3 | 42.1 | 52.6 | | |
| 1940: 10 years and over 2 | Black | 79.1 | 75. I | 83.o | | |
| · · | Brown ⁸ | 70.8 | 66.3 | 75.2 | | |
| | \mathbf{Y} ellow | 34.4 | 26.0 | 44.4 | | |

¹ Including nationality unknown.

ILLITERACY IN DIFFERENT AGE-GROUPS

It is a disturbing fact that the amount of illiteracy among the children of school age in Brazil (7-14 years) is higher than in the post-school-age population (15 years and over); though the relative rate of progress in the reduction of illiteracy among the children

TABLE 19. Reduction of illiteracy among children of school age (7-14 years) in Brazil: 1920-40

| Sex | Percentage | of illiteracy | Reduction of | Average decennial |
|------------|--------------|---------------|-------------------------|----------------------|
| | 1920 | 1940 | illiteracy 1920-1940 | rate of progress |
| | | | | % |
| Both sexes | 80.3 | 67.5 | 12.8 | 8 |
| Male | 79. <u>8</u> | 67.9 | 11.9 | 8 |
| Female | 80.7 | 67.0 | 13.7 | 9 |

² Including population of literacy unstated.

³ Including colour not stated.

of school age is somewhat better than among the post-school-age population, as is seen by comparing Table 19 with Table 17.

It is noteworthy that, in each of the chief population groups by colour, the lowest percentage of illiteracy is found among males 30-39 years of age and among females 10-19 years of age. The only exception is in the case of the small yellow population group, where the lowest percentage among males is found in the 20-29 age group. It will also be observed that the percentage of illiteracy in the 10-19 age group is about the same between the two sexes (except among the yellow group).

Table 20 gives the percentages of illiteracy in 1940 for the total population of Brazil and for each of the colour groups, 10 years old and over, by specified age groups and by sex.

TABLE 20. Percentage of illiteracy in the population of Brazil, 10 years old and over, by sex, age, and colour: 1940

| Sex and | | Pero | entage of illi | teracy | |
|---|--------------|-------|----------------|---------|--------|
| age group | Total | White | Black | Brown 1 | Yellow |
| Male: | | | | | |
| 10 years and over 2 | 51.5 | 42.I | 75.I | 66.3 | 26.0 |
| 10-19 | 57.3 | 48.o | 78 .7 | 72.2 | 24.0 |
| 20-29 | 48.2 | 38.8 | 71.5 | 62.3 | 19.6 |
| 30-39 | 45.8 | 36.4 | 70.7 | 60.7 | 23.1 |
| 40-49 | 49.0 | 39.4 | 73.6 | 63.5 | 31.0 |
| 50-59 | 50.7 | 41.4 | 76.o | 64.8 | 38.7 |
| 60 and over | 56. 7 | 46.6 | 83.5 | 70.9 | 55.2 |
| unknown | 38.2 | 35.6 | 62.0 | 57.8 | 36.2 |
| Female: | | | | | |
| 10 years and over 2 | 61.7 | 52.6 | 83.0 | 75.2 | 44.4 |
| 10-19 | 57.4 | 48.5 | 78.o | 71.5 | 28.5 |
| 20-29 | 5 8.7 | 49-3 | 80.7 | 72.5 | 41.2 |
| 30-39 | 63.0 | 53.6 | 85.1 | 76.9 | 55.6 |
| 40-49 | 68.o | 59.0 | 88.5 | 80.9 | 59.3 |
| 50-59 | 69.7 | 61.3 | 89.8 | 82.3 | 65.9 |
| 60 and over | 74.0 | 65.0 | 93.7 | 86.8 | 76.7 |
| unknown | 50.2 | 46.1 | 76.8 | 67.6 | 30.6 |
| ¹ Including colour not state ² Including persons of litera | | d. | - | - | - |

LLITERACY AND SCHOOL ATTENDANCE

Besides the question on ability to read and write, the Brazilian census of 1940 also asked whether the person enumerated was

attending school. The data thus obtained on school attendance may be examined with the data on literacy, and thus shed further light on each of these educational characteristics of the population.

The percentage of illiterates among the population 5-29 years of age, classified by school attendance, is given in Table 21, where it is seen that, in every age group among the children and youth of each sex, the proportion of illiterates attending school was very small indeed compared with the proportion of those who were neither literate nor attending school.

TABLE 21. Percentage of illiteracy in the population of Brazil, 5-29 years old, by school attendance: 1940

| Sex and | Percentage | Percentage of illiteracy in population 5-29 years old | | | | | |
|------------|---------------|---|-------------------------|--|--|--|--|
| age group | Total | Attending school | Not attending school | | | | |
| Male: | | | | | | | |
| 5-9 | 86.5 | 7.1 | 79.5 | | | | |
| 10-14 | 60.7 | 5.0 | 55.8 | | | | |
| 15-19 | 53.8 | 0.9 | 52.9 | | | | |
| 20-24 | 49.3 | 0.3 | 48.9 | | | | |
| 25-29 | 47.5 | 0.1 | 47.4 | | | | |
| Female: | | | | | | | |
| 5-9 | 85.9 | 6.6 | 79.3 | | | | |
| 10-14 | 59.7 | 4.2 | 55.6 | | | | |
| 15-19 | 55.5 | 0.7 | 54.8 | | | | |
| 20-24 | 5 7- 9 | 0.2 | 57.8 | | | | |
| 25-29 | 60.1 | 0.1 | 60.0 | | | | |

CONSISTENCY AND RELIABILITY OF DATA

The census data on literacy in 1940 were obtained from a single question in the schedule on ability to read and write: 'Question 21: Can you read and write? Answer "yes" if the person enumerated can read and write and "no" if illiterate.'

It seems that the census results for 1900 and 1920 were obtained in a similar manner, judging by the tabulations given. However, the 1900 results were given only for two age groups: under 15, and 15 years and over. The data for 1920 were tabulated for the age groups: under 7, 7-14, 15 and over. The data by age from the 1940 census are sufficiently detailed to be combined in different groups for comparative purposes.

The data for 1900 used in this study were taken from a retros-

pective table published in 1925. In this table figures for the Federal District from a census in 1906 had been substituted for those from the 1900 census, as the results of the 1900 census had not been officially accepted.

BULGARIA: 1900-34

ILLITERACY IN THE TOTAL POPULATION

The number of illiterate persons in Bulgaria, 10 years old and over, was a little under one and a half million in 1934, the latest year for which census data on literacy are available. This represents 31.4 per cent illiteracy among the total population at that age level.

The percentage of illiteracy had been 70.4 in 1900; thus there was a reduction of 39 per cent in 34 years. In relative terms, this means an average rate of progress of 21 per cent per decade.

TABLE 22. Number and percentage of illiterates in the population of Bulgaria, 10 years old and over: 1900-34

| | Population 10 years old and over | | | | | | |
|----------------|----------------------------------|-----------------------|------------------------|--|--|--|--|
| Census year | Total No. of persons | No. of illiterates | Per cent illiterate | | | | |
| 1900 | 2 707 108 | 1 906 874 | 70.4 | | | | |
| 1905 | 2 917 439 | 1 910 371 | 65.5 | | | | |
| 1910 | 1 3 118 131 | 1 803 283 | 57.8 | | | | |
| 1920 | 1 3 726 522 | 1 738 743 | 46.7 | | | | |
| 1926 | ¹ 4 128 757 | 1 637 292 | 39.7 | | | | |
| 1934 | 1 4 642 141 | 1 457 365 | 31.4 | | | | |

¹ Excluding persons of literacy unspecified, numbering 17,120 in 1910; 5,961 in 1920; 31 in 1926; 1,553 in 1934.

Considering only the population 15 years old and over, the percentage of illiteracy is between three and four per cent higher, being 73.6 in 1900 and 35.1 in 1934. The relative rate of progress in this case is approximately 20 per cent per decade.

TABLE 23. Number and percentage of illiterates in the population of Bulgaria, 15 years old and over: 1900-34

| Census | Pop | oulation 15 years old and ov | er |
|--------|-------------------------------------|------------------------------|------------------------|
| year | Total No. of persons | No. of illiterates | Per cent illiterate |
| 1900 | 2 239 458 | 1 648 881 | 73.6 |
| 1905 | 2 446 704 | 1 678 161 | 68.6 |
| 1910 | ¹ 2 598 658 | 1 616 825 | 62.2 |
| 1920 | 1 3 085 961 | 1 550 726 | 50.3 |
| 1926 | ¹ 3 564 256 | 1 528 069 | 42.9 |
| 1934 | ¹ 3 9 ¹ 7 444 | 1 377 246 | 35.1 |

Excluding persons of literacy unspecified, numbering 14,642 in 1910; 4,905 in 1920; 30 in 1926; 1,553 in 1934.

ILLITERACY AMONG THE MALE AND FEMALE POPULATIONS

Illiteracy among the female population has been consistently higher than among the male. Whereas the percentage of illiteracy among the male population 10 years old and over decreased from 54.6 in 1900 to 19.5 in 1934, it was reduced among the female population from 87.0 in 1900 to 43.3 in 1934. However, in relative terms, the average rate of progress during this period was higher for the male population, being 26 per cent per decade compared with a rate of 19 per cent per decade for the female.

Considering the population 15 years old and over, the percen-

TABLE 24. Reduction of illiteracy in the population of Bulgaria 10 years old and over, and 15 years old and over, by sex: 1900-34

| | Percentage of illiteracy | | | | | | | |
|---|--------------------------|-----------|--------|---------------|-----------|--------|--|--|
| Census | 10 | years and | over | 15 | years and | over | | |
| year | Both sexes | Male | Female | Both sexes | Male | Female | | |
| 1900 | 70.4 | 54.6 | 87.0 | 73.6 | 58.o | 90.0 | | |
| 1905 | 65.5 | 48.8 | 83.o | 68.6 | 51.6 | 86.5 | | |
| 1910 | 57.8 | 40.8 | 75.6 | 62.2 | 44.0 | 81.1 | | |
| 1920 | 46.7 | 31.8 | 61.3 | 50.3 | 33.4 | 66.6 | | |
| 1926 | 39.7 | 25.3 | 53.9 | 42.9 | 26.8 | 58.6 | | |
| 1934 Reduction of | 31.4 | 19.5 | 43.3 | 35.1 | 21.2 | 49.0 | | |
| illiteracy 1900-34 Average decennial | 39.0 | 35.1 | 43.7 | 38.5 | 36.8 | 41.0 | | |
| rate of progress | 21% | 26% | 19% | 20% | 26% | 16% | | |

tage of illiteracy among the male population decreased from 58.0 in 1900 to 21.2 in 1934, showing a relative rate of progress of 26 per cent per decade. For the female population, the corresponding percentages were 90.0 in 1900 and 49.0 in 1934, showing a relative rate of progress, in this case, of only 16 per cent per decade.

Table 24 shows the reduction of illiteracy, by sex, for the population 10 years old and over and 15 years old and over, and the average decennial rates of progress, during the period 1900-34.

ILLITERACY IN DIFFERENT AGE GROUPS

Table 25 shows the percentage of illiteracy by different age groups and by sex, at each of the census years from 1900 to 1934. It may be seen that the percentage of illiteracy has been lowest for the 10-14 age group throughout this period, with each older group generally registering a higher percentage of illiteracy.

The difference between the two sexes tends to be more and more

TABLE 25. Reduction of illiteracy in the population of Bulgaria, 10 years old and over, by sex and age groups: 1900-34

| Sex and | | | Percentage | of illiteracy | , | |
|------------------------|--------------|--------------|--------------|---------------|--------------|-------|
| age group | 1900 | 1905 | 1910 | 1920 | 1926 | 1934 |
| Male | | | | | | |
| 10 years and over 1 | 54.6 | 48.8 | 40.8 | 31.8 | 25.3 | 19.5 |
| 10-14 | 38.2 | $34 \cdot 3$ | 24.6 | 24.5 | 16.1 | 10.4 |
| 15-19 | 39.4 | 36.4 | 27.9 | 23.7 | 18.8 | 12.8 |
| 20-24 | 39.0 | 31.5 | 27.2 | 17.7 | 16.9 | 13.5 |
| 25-34 | 45.7 | 38.3 | 29.8 | 20.7 | 16.4 | 15.2 |
| 35-44 | 61.4 | 50.6 | 41.I | 27.4 | 20.6 | 16.0 |
| 45-54 | $73 \cdot 9$ | 65.9 | $57 \cdot 3$ | 40.3 | 31.0 | 21.2 |
| 55-64 | 82.1 | 78.6 | 73.6 | 58. ı | 46. ı | 36.5 |
| 65 and over | 89.1, | 87.3 | 84.7 | 78. ı | $72 \cdot 4$ | 59 -9 |
| Female | | | | | | |
| 10 years and over 1 | 87.0 | 83.o | 75.6 | 61.3 | $53 \cdot 9$ | 43.3 |
| 10-14 | 72.8 | 64.9 | 47.7 | $34 \cdot 5$ | 22.8 | 3.11 |
| 15-19 | 77.9 | 71.8 | 61.3 | $37 \cdot 9$ | 31.2 | 16. |
| 20-24 | 83.9 | 77.1 | 70.1 | 45.0 | 36. г | 25.0 |
| 25-34 | 88.9 | 85.2 | 78.8 | 8.16 | 47.9 | 34 . |
| 35-44 | 94.1 | 91.2 | 87.0 | 7 6.5 | 67.9 | 52.0 |
| 45-54 | 97.1 | 95.8 | 93.4 | 86.3 | 82.1 | 71.5 |
| 55-64 | 98.5 | 98.1 | 97.0 | 93.2 | 90.2 | 84. |
| 65 and over | 99.3 | 99.0 | 98.4 | 96.7 | 95.9 | 93 · |
| Including age unknown. | | | | | | |

marked for each older age group. For example, in 1934, the illiteracy percentage among the 10-14 age group was only 1.4 per cent higher for females than for males; but among persons 65 years old and over, the difference was 33.2 per cent.

ILLITERACY BY SELECTED COHORTS

When the age data are examined from the point of view of the progress made by cohorts, i.e., persons born during the same period of time, it will be seen from Table 26 that progress was registered by each of the specified cohorts (more for the male than for the female) in each of the given decennial periods. The highest rates of progress were achieved by the youngest cohorts, i.e. cohort III, who were 15-24 years old in 1900, and cohort IV, who were in that age-group in 1910.

TABLE 26. Reduction of illiteracy in the population of Bulgaria among specified cohorts: 1900-20

| | Cohort | Percentage of illiteracy | | | Reduction of illiteracy | | Decennial rate of progress | |
|------|---|--------------------------|------|------|-------------------------|---------|----------------------------|------------|
| | | 1900 | 1910 | 1920 | 1900-10 | 1910-20 | 1900-10 | 1910-20 |
| ī. | Persons born 1856-65 | | | | | | % | % |
| | Im. Male | 61.4 | 57.3 | • | 4.I | | 7 | |
| II. | If. Female Persons born 1866-75 | 94.1 | 93.4 | • | ō.7 | • | I | • |
| | IIm. Male | 45.7 | 41.1 | 40.3 | 4.6 | 0.8 | 10 | 2 |
| III. | IIf. Female Persons born | 88.9 | 87.0 | 86.3 | i.9 | 0.7 | 2 | 1 |
| | 1876-85 IIIm. Male | 39.2 | 29.8 | 27.4 | 9.4 | 2.4 | 24 | 8 |
| IV. | IIIf. Female Persons born 1886-95 | 80.3 | 78.8 | 76.5 | 1.5 | 2.3 | 2 | 3 |
| | IVm. Male | | 27.6 | 20.7 | • | 6.9 | • | 25 |
| | IVf. Female | • | 65.4 | 61.8 | | 3.6 | • | $\ddot{6}$ |

ILLITERACY IN URBAN AND RURAL AREAS

The population of Bulgaria, during the period under consideration, was about 20 per cent urban and 80 per cent rural. In

the urban population of 10 years old and over the percentage of illiteracy was reduced from 46.6 in 1900 to 18.8 in 1934. In rural areas, the reduction was from 76.8 per cent in 1900 to 35.2 per cent in 1934. The relative rate of progress for urban areas was slightly more than for rural areas during the same period.

TABLE 27. Reduction of illiteracy in the population of Bulgaria, 10 years old and over, by urban and rural areas and by sex: 1900-34

| Area and sex | | Average decennial | | | | | |
|--------------|--------------|----------------------|------|-------|------|------|---------------------|
| | 1900 | 1905 | 1910 | 1920 | 1926 | 1934 | rate of progress |
| Urban | | | | | | | % |
| Both sexes | 46.6 | 41.5 | 35.5 | 28. I | 23.8 | 18.8 | 23 |
| Male | 32.4 | 28.3 | 23.8 | 18.7 | 14.4 | 11.3 | 27 |
| Female | 62.2 | 56.o | 48.2 | 38. ı | 33.6 | 26.5 | 22 |
| Rural | | - | - | - | | | |
| Both sexes | 76.8 | 71.9 | 63.7 | 51.7 | 44.1 | 35.2 | 21 |
| Male | 60.7 | 54.4 | 45.4 | 35.5 | 28.5 | 21.9 | 26 |
| Female | $93 \cdot 5$ | 90.0 | 82.6 | 67.3 | 59.5 | 48.3 | 18 |

ILLITERACY BY LINGUISTIC GROUPS

At the census of 1934, the population was classified by language spoken into eight groups, giving the following proportions of the population of 10 years old and over: Bulgarian, 87.5%; other Slavonic, 0.3%; Turkish, Tartar and Romany, 10.7%; Greek, 0.2%; Rumanian, 0.2%; Jewish, 0.5%; Armenian, 0.4%; other non-Slavonic, 0.1%.

Among these groups, the highest percentage of illiteracy reported at each census shown in Table 28 was for the group speaking Turkish, Tartar and Romany, followed next in order by the Rumanian, Greek, Bulgarian and Armenian groups. The Jewish, other Slavonic and other non-Slavonic groups, together making up about one per cent of the total population, had the lowest percentages of illiteracy. Between the two largest linguistic groups—the Bulgarian, and the Turkish, Tartar and Romany—the rate of progress over the period from 1910 to 1934 was obviously much higher among the Bulgarian-speaking group.

TABLE 28. Reduction of illiteracy in the population of Bulgaria, 10 years old and over, by language spoken and by sex: 1910-34

| Language | Perce | ntage of illit | Reduction | Average decennia | |
|-----------------------|-------------|----------------|--------------|--------------------------|------------------|
| spoken and sex | 1910 | 1926 | 193 | of illiteracy 1910-34 | rate of progress |
| All groups | | | | | % |
| Both sexes | 57.8 | 39.7 | 31.4 | 26.4 | 22 |
| Male | 40.8 | 25.3 | 19.5 | 21.3 | 26 |
| Female | 75.6 | 53.9 | 43.3 | 32.3 | 21 |
| Bulgarian | , 0 | 00 0 | 13 5 | 5 5 | |
| Both sexes | 52.0 | 33.2 | 25.3 | 26.7 | 26 |
| Male | 32.4 | 17.8 | 12.5 | 19.9 | 33 |
| Female | 72.4 | 48.4 | 38.0 | 34.4 | 24 |
| Other Slavonic | ,4 | 77 | 3-1- | 34.4 | -4 |
| Both sexes | 33.4 | 7.1 | 6.2 | 27.2 | 50 |
| Male | 29.5 | 5.9 | 5.2 | 24.3 | 51 |
| Female | 38.7 | 10.7 | 8.1 | 30.6 | 48 |
| Turkish, Tartar | 30.7 | 10.7 | ٠.٠ | 30.0 | 40 |
| and Romany | | | | | |
| Both sexes | 92.5 | 85.4 | 81.7 | 10.8 | - |
| Male | 88.7 | 78.0 | 75.0 | 13.7 | 5 |
| Female | 96.6 | 92.9 | 88.7 | 7.9 | 7 |
| Greek | 30.0 | 9-19 | 00.7 | 7.9 | 3 |
| Both sexes | 57.8 | 42.4 | 51.6 | 6.2 | _ |
| Male | 42.9 | 32.4 | 42.1 | 0.8 | 5 1 |
| Female | 72.9 | 51.2 | 60.2 | 12.7 | 8 |
| Rumanian | 72.9 | 31.4 | 00.2 | 12./ | U |
| Both sexes | 76.o | 62.2 | 72.1 | 9.0 | 2 |
| Male | 59·3 | 38.0 | 58.2 | 3.9 | 1 |
| Female | 92.9 | 84.9 | 85.2 | | |
| Jewish | 92.9 | 04.9 | 05.2 | 7.7 | 4 |
| Both sexes | 26.8 | 17.2 | 18.0 | 8.8 | |
| Male | 9.7 | 6.5 | 7.8 | 1.9 | 15 |
| Female | 9·7 43·5 | 27.1 | 27.4 | 1.9 16.1 | .8 |
| Armenian | 43.3 | 4/.1 | 27.4 | 10.1 | 10 |
| Both sexes | 30.8 | 28.8 | 23.8 | # 0 | |
| Male | 21.6 | 19.2 | 16.3 | 7.0 | 10 |
| Female | 42.8 | 38.7 | 31.0 | 5·3 11.8 | 11 |
| Other non- | 42.0 | 30.7 | 31.0 | 11.0 | 13 |
| Slavonic ¹ | | | | | |
| Both sexes | 22.5 | 14.0 | 77 4 | | 0.5 |
| Male | 27.3 | 14.2 15.1 | 11.4 13.8 | 11.1 | 25 |
| | 4/.3 | 13.1 | 13.0 | 13.5 | 25 |

BURMA: 1901-31

ILLITERACY IN THE TOTAL POPULATION

Considering only persons 10 years old and over, the percentage of illiteracy in Burma has decreased from 71.6 in 1901 to 59.8 in 1931. However, owing to the increase in the total population, the number of illiterate persons has actually increased by almost one million between 1901 and 1931, as is shown in Table 29.

TABLE 29. Number and percentage of illiterates in the population of Burma 10 years old and over: 1901-31

| Census year | Po | pulation 10 years old and over | • |
|----------------|-------------------------|---------------------------------------|--------------------------|
| | Total No. of persons | Persons not able to read and write | Percentage illiterate |
| 1901 | 7 613 489 | 5 450 768 | 71.6 |
| 1911 | 8 869 556 | 6 260 438 | 70.6 |
| 1921 | 9 899 712 | 6 362 799 | 64.3 |
| 1931 | 10 828 282 | 6 480 378 | 59.8 |

Considering only the population 15 years old and over, the percentage of illiteracy has decreased from 70.1 in 1901 to 57.6 in 1931; the number of illiterates has nevertheless increased from about four and a half million in 1901 to about five and a quarter million in 1931.

TABLE 30. Number and percentage of illiterates in the population of Burma, 15 years old and over: 1901-31

| Census year | Population 15 years old and over | | | | | | | |
|----------------|----------------------------------|---------------------------------------|--------------------------|--|--|--|--|--|
| | Total No. of persons | Persons not able to read and write | Percentage illiterate | | | | | |
| 1901 | 6 508 976 | 4 559 956 | 70.1 | | | | | |
| 1911 | 7 492 047 | 5 136 062 | 68.6 | | | | | |
| 1921 | 8 395 414 | 5 232 009 | 62.3 | | | | | |
| 1931 | 9 167 275 | 5 276 193 | 57.6 | | | | | |

The relative rate of progress thus registered by Burma in the reduction of illiteracy during this period of 30 years averaged about six per cent per decade. This rate of progress, as was seen, was not enough to stop the number of illiterates from increasing.

To attain this minimum objective, it would have been necessary to show an average decennial rate of progress of about 11 per cent. In other words, the percentage of illiteracy in 1931 should have been reduced to 50.3 for the population 10 years old and over, or to 49.7 for the population 15 years old and over.

ILLITERACY AMONG THE MALE AND FEMALE POPULATION

The percentage of illiteracy has been much higher among the female population than among the male. Furthermore, the relative rate of progress over the 30-year period has been twice as high among the male than among the female population. Table 31 shows that, for the population 10 years old and over, the percentage of illiteracy among the male population was reduced from 50.2 in 1901 to 38.6 in 1931, representing an average decennial rate of progress of eight per cent. During the same period, the percentage of illiteracy among the female population decreased from 94.3 to 82.5, representing an average rate of progress of only four per cent per decade.

TABLE 31. Reduction of illiteracy in the population of Burma, 10 years old and over, and 15 years old and over, by sex: 1901-31

| Age level and sex | | Percentage | Reduction of | Average decennial | | |
|----------------------|--------|------------|-----------------------|----------------------|-----------------------|------------------|
| | 1901 | 1911 | 1921 | 1931 | illiteracy 1901-31 | rate of progress |
| 10 years and over | | | | | | % |
| Both sexes | 71.6 | 70.6 | 64.3 | 59.8 | 8.11 | % 6 |
| Male | 50.2 | 50.4 | 42.4 | 38.6 | 11.6 | 8 |
| Female | 94 · 3 | 92.1 | $\bar{8}_{7}.\bar{7}$ | 82.5 | 11.8 | 4 |
| 15 years and over | ••• | • | | - | | - |
| Both sexes | 70.1 | 68.6 | 62.3 | 57.6 | 12.5 | 6 |
| Male | 47.0 | 46.6 | 38.8 | 34.5 | 12.5 | 10 |
| Female | 94 · 4 | 92.0 | 87.5 | 82.2 | 12.2 | 5 |

ILLITERACY IN DIFFERENT AGE GROUPS

The census reports tabulated separately the age groups 10-14, 15-19, 20 and over. It appears, from Table 32, that the percentage of illiteracy has been highest among children 10-14 years old, both male and female, and that their relative rate of progress over

the three decades has been lowest. Relatively more progress has been made among male adults 15 years old and over.

Table 32. Reduction of illiteracy in the population of Burma, 10 years old and over, by sex and age groups: 1901-31

| Sex and | I | Percentage | Reduction of | Average decennial | | |
|-------------------|--------------|------------|-----------------|----------------------|-----------------------|------------------|
| age group | 1901 | 1911 | 1921 | 1931 | illiteracy 1901-31 | rate of progress |
| Male | | | | | | % |
| 10 years and over | 50.2 | 50.4 | 42.4 | 38.6 | 11.6 | 8 |
| 10-14 | 68.5 | 71.4 | 62.7 | 61.5 | 7.0 | 4 |
| 15-19 | 51.5 | 52.1 | 43. I | 38.2 | 13.3 | 9 |
| 20 and over | 46.3 | 45.6 | 38.o | 33.8 | 12.5 | 10 |
| Female | | | | | | |
| 10 years and over | $94 \cdot 3$ | 92.1 | 87.7 | 82.5 | 11.8 | 4 |
| 10-14 | $93 \cdot 9$ | 92.6 | 88.5 | 83.9 | 10.0 | 4 |
| 15~19 | 92.3 | 89.1 | 84.4 | 79.0 | 13.3 | 5 |
| 20 and over | $94 \cdot 7$ | 92.5 | 88.2 | 82.9 | 8.11 | 4 |

In addition to the age groups shown in Table 32, the census report of 1921 made a separate tabulation for the age group 20-29. These persons, being born between 1892 and 1901, were 10-19 years old in 1911. Progress of literacy in this cohort, between the census years 1911 and 1921, was at the rate of 38 per cent for males and only six per cent for females, as follows:

| Cohort | Percentage of | of illiteracy | Reduction of | Decennial rate of |
|------------------------|---------------|---------------|-----------------------|----------------------|
| | 1911 | 1921 | illiteracy 1911-21 | progress |
| Persons born 1892-1901 | | | | % |
| Male Female | 63.0 91.0 | 39.2 85.3 | 23.8 5·7 | 38 6 |

ILLITERACY AMONG PRINCIPAL ETHNIC GROUPS

About two-thirds of the population of Burma may be classified into three principal ethnic groups: Burmese, Shan, and Karen. In these groups, the percentage of illiteracy has been lowest for the Burmese, and the rate of progress relatively highest. However,

the Karen group, though more illiterate than the Burmese, have shown almost as much progress between 1901 and 1931. The group with the highest percentage of illiteracy and the lowest rate of progress have been the Shan. Owing to considerable variation in the classification of the other (minor) racial groups, it is not possible to compare either the extent of illiteracy or the relative rates of progress for such groups.

TABLE 33. Reduction of illiteracy among persons of all ages in the three principal ethnic groups of Burma: 1901-31

| Ethnic group | P | ercentage | of illiterac | у | Reduction of | Average decennia |
|--------------|------|-----------|--------------|------|-----------------------|---------------------|
| and sex | 1901 | 1911 | 1921 | 1931 | illiteracy 1901-31 | rate of progress |
| All groups | | | | | | % |
| Both sexes | 78.5 | 77.8 | 72.3 | 68.3 | 10.2 | |
| Male | 62.2 | 62.4 | .5.5 · I | 51.4 | 10.8 | $\frac{5}{6}$ |
| Female | 95.5 | 93.9 | 90.3 | 85.9 | , 9.6 | 3 |
| Burmese | 00 0 | 00 0 | 0 0 | | ū | • |
| Both sexes | 73.2 | | 65.1 | 60.5 | 12.7 | 6 |
| Male | 51.0 | | 41.3 | 38.1 | 12.9 | 9 |
| Female | 94.5 | | 87.8 | 81.9 | 12.6 | 5 |
| Shan | 0.0 | | • | Ü | | |
| Both sexes | 92.1 | 89.9 | 87.8 | 88.5 | 3.6 | I |
| Male | 84.8 | 81.9 | 77.4 | 78.5 | 6.3 | 3 |
| Female | 99.1 | 97.8 | 98.2 | 98.6 | 0.5 | ŏ |
| Karen | 00 | • | V | Č | • | |
| Both sexes | 90.9 | 87.4 | 84.9 | 75.8 | 15.1 | 6 |
| Male | 85.7 | 80.9 | 77.8 | 65.9 | 19.8 | 8 |
| Female | 96.3 | 93.Š | 92.2 | 85.6 | 10.7 | 4 |

CONSISTENCY AND RELIABILITY OF DATA

The definition of literacy used in 1901 was ability to read and write in any language. In 1911 and later censuses, the enumerators were instructed not to enter a person as literate 'unless he was able to write a letter to a friend and read his answer to it'. In view of the more definite and stringent criterion of literacy introduced after 1901, it is likely that the percentage of illiteracy reported for 1901 was too low, hence the rate of progress in the reduction of illiteracy since 1901 may be somewhat higher than is indicated in the above analysis.

The census report for 1921 contains a statement listing some of

the considerations which show the need for caution in any comparison of statistics of literacy at different times and places. These considerations are generally applicable to all analyses of literacy data from census enumerations:

- 1. The effects of differences in age distribution of the population at different times or in different places or among different classes.
- 2. Changes in the criterion of literacy used in different censuses.
- 3. Possible variations in the application of any criterion at different places, among different classes or at different times, and the probability that it is applied more stringently where and when literacy is higher.

Nevertheless, as to the accuracy of the statistics obtained from the census enumeration in Burma, the same report concludes: 'it is safe to say that there will have been no deliberate misrepresentation, and that generally the enumeration record represented the honest opinion of the head of each household whether each member should be considered literate or not.'

CANADA: 1901-1941 (including Newfoundland: 1901-45)

ILLITERACY IN THE TOTAL POPULATION

It is not possible here to treat in detail the progress of literacy in the various provinces of Canada. However, Newfoundland,

TABLE 34. Number and percentage of illiterates in the population of Canada, 5 years old and over, 1901-31; and 10 years old and over, 1921-31

| Census year | Total No. of persons 1 | Persons not able to read and write | Percentage illiterate |
|---------------------------------------|------------------------|---|--------------------------|
| Population 5 years old and over | | | |
| 1901 | 4 728 631 | 809 716 | 17.1 |
| 1911 | 6 319 160 | 696 316 | 0.11 |
| 1921 | 7 730 833 | 773 421 | 10.0 |
| 1931 Population 10 years old and over | 9 302 371 | 712 441 | 7.7 |
| 1921 | 6 682 072 | 383 368 | 5.7 |
| 1931 | 8 169 622 | 347 803 | 4.3 |

¹ Including Yukon and Northwest Territories, and including the Indian population.

which became a province of Canada only in 1949, will be treated separately at the end of this section after the data from the Canadian censuses during the period 1901-41 have been examined.

At the census of 1901, there were 809,716 persons in Canada returned as not able to read and to write. This was 17.1 per cent of the total population of 5 years old and over. By 1931, the number of illiterates had fallen to 712,441 (in spite of the considerable increase in the total population), and the percentage of illiteracy had been reduced to 7.7. The reduction in percentage of illiteracy came to 9.4 per cent in 30 years, and the relative rate of progress for that period averaged 23 per cent per decade.

In the population 10 years old and over, the percentage of illiteracy was reduced from 5.7 in 1921 to 4.3 in 1931, showing a relative rate of progress of almost 25 per cent in a decade.

REDUCTION OF ILLITERACY, BY SEX

Throughout this period, the female population led the male in having both a lower rate of illiteracy and a higher relative rate of progress. Between 1911 and 1931, the percentage of illiteracy among male persons 5 years old and over was reduced from 11.6 to 8.1, showing an average decennial rate of progress of 16 per cent. The comparable rate of progress among female persons was 17 per cent, the percentage of illiteracy being reduced from 10.4 in 1911 to 7.2 in 1931.

In the population 10 years old and over, the rate of progress between 1921 and 1931 was 25 per cent among male persons and 28 per cent among female persons.

TABLE 35. Reduction of illiteracy in the population of Canada, by sex, 5 years old and over, 1911-31; 10 years old and over, 1921-31

| Age level and sex | Percei | ntage of illi | teracy | Reduction in percentage of | Average decennial |
|----------------------|--------|---------------|--------|-------------------------------|----------------------|
| | 1911 | 1921 | 1931 | illiteracy during period | rate of progress |
| 5 years and over | | | | | % |
| Both sexes | 0.11 | 10.0 | 7.7 | 3.3 | ίĞ |
| Male | 11.6 | 10.6 | 8.1 | 3.5 | 16 |
| Female | 10.4 | 9.4 | 7.2 | 3.2 | 17 |
| 10 years and over | - | | • | Ů | • |
| Both sexes | | 5.7 | 4.3 | 1.4 | 25 |
| Male | | 6.4 | 4.8 | ı.Ĝ | 25 |
| Female | • • • | 5.0 | 3.6 | 1.4 | 28 |

ILLITERACY BY NATIVITY AND ORIGIN

During the period 1911-21, the total population of Canada was about 78 per cent Canadian-born, 12 per cent British-born, and 10 per cent foreign-born. Illiteracy was lowest among the British-born, and highest among the foreign-born. The advantage of the female population over the male seemed to hold only among the Canadian-born. In terms of relative rates of progress, the British-born, starting with a low initial percentage of illiteracy, far outpaced the other two population groups.

TABLE 36. Reduction of illiteracy in the population of Canada, 5 years old and over, by nativity and sex: 1911-21

| Nativity and sex | Percentage | of illiteracy | Reduction in | Decennial rate of |
|------------------|------------|---------------|-----------------------------|----------------------|
| | 1911 | 1921 | percentage of illiteracy | progress |
| Canadian | | | | % |
| Both sexes | 11.2 | 11.0 | 0.2 | 2 |
| Male | 12.0 | 8.11 | 0.2 | 2 |
| Female | 10.4 | 10.1 | 0.3 | 3 |
| British | | | - | |
| Both sexes | 4.2 | 1.5 | 2.7 | 64 |
| Male | 4.0 | 1.5 | 2.5 | $6\tilde{3}$ |
| Female | 4.5 | 1.5 | 3.0 | $6\overline{7}$ |
| Foreign | | _ | • | - |
| Both sexes | 17.5 | 13.9 | 3.6 | 21 |
| Male | 17.5 | 13.1 | 4.4 | 25 |
| Female | 17.5 | 15.0 | 2.5 | 14 |

Among the principal ethnic groups, the lowest illiteracy (defined here as inability to read) was found among persons of British origin,

TABLE 37. Reduction of illiteracy in the population of Canada, 10 years old and over, by ethnic origin and sex: 1921-31

| Ethnic origin and sex | Percentage | of illiteracy 1 | Reduction in percentage of | Decennial rate of progress |
|--------------------------|-------------|-----------------|----------------------------|----------------------------------|
| | 1921 | 1931 | illiteracy | |
| All groups 2 | | | | % |
| Both sexes | $4 \cdot 5$ | 3.4 | I . I | 24 |
| Male | 5.2 | $3 \cdot 9$ | 1.3 | 25 |
| Female | 3.8 | 2.8 | 1.0 | 26 |

¹ Including only persons who could neither read nor write.

² Excluding Yukon and Northwest Territories, and aborigines (Eskimo and Indian).

PROGRESS OF LITERACY

| Ethnic origin | Percentage | of illiteracy 1 | Reduction in | Decennial rate of | |
|---------------|-------------------|-----------------|-----------------------------|----------------------|--|
| and sex | 1921 | 1931 | percentage of illiteracy | progress | |
| British | | | | % | |
| Both sexes | 1.1 | 0.9 | 0.2 | 81 | |
| Male | 1.3 | I.I | 0.2 | 15 | |
| Female | 0.9 | 0.7 | 0.2 | 22 | |
| European | | | | | |
| Both sexes | 8.9 | 6.2 | 2.7 | 30 | |
| Male | 9.9 | 7.0 | 2.9 | 29 | |
| Female | 7.8 | $5 \cdot 3$ | 2.5 | 32 | |
| Asian | | • - | | | |
| Both sexes | 26.6 | 15.3 | 11.3 | 42 | |
| Male | 26.4 | 15.3 | 11.1 | 42 | |
| Female | 27.9 | 15.3 | 12.6 | 45 | |
| Negro | , , | 0 0 | | | |
| Both sexes | 8.4 | 8. r | 0.3 | 4 | |
| Male | 9.0 | 9.0 | _ | | |
| Female | 7.8 | 7.1 | 0.7 | 9 | |
| Various | | • | · | | |
| Both sexes | 18.8 | 8.3 | • | | |
| Male | 23.2 | 8.9 | • | | |
| Female | 8.2 | 7.6 | • | | |
| Unspecified | | · | | | |
| Both sexes | 5.1 | 5.0 | • | | |
| Male | 4.6 | 5.3 | • | | |
| Female | $\hat{5} \cdot 5$ | $4 \cdot 7$ | • | • | |

and the highest among those of Asian origin. Between 1921 and 1931, all these groups showed some reduction of illiteracy except the Negro males. The relative rate of progress was highest among the Asian group, both male and female, except for the male persons in the miscellaneous group 'various'.

In 1921, the Indian population of Canada numbered 110,814 persons of all ages and was about 1.26 per cent of the total population. Illiteracy among the Indian population 10 years old and over was 52.1 per cent (male, 49.2; female, 55.1), higher than any of the other ethnic groups identified in the census reports.

In 1931, there were 87,298 Indians 10 years old and over, of whom 39.3 per cent were illiterate (male, 36.8; female, 42.0). This represents a relative rate of progress of 25 per cent during the decade, a rate equivalent to that for the total population of Canada during that period.

REDUCTION OF ILLITERACY IN URBAN AND RURAL AREAS

In 1931 about 55 per cent of the population 10 years old and over lived in urban areas, defined as 'incorporated cities, towns and villages of all sizes'. The percentage of illiteracy (i.e., persons unable to read) among the urban male population had been reduced from 3.6 to 2.7 and among the female from 2.7 to 2.0 between 1921-31. The rural population, both male and female, had a higher percentage of illiteracy than the urban. The rate of progress among the rural population, though somewhat less than that of the urban population, was quite considerable.

TABLE 38. Reduction of illiteracy in the population of Canada, 10 years old and over, by urban and rural areas and by sex: 1921-31

| Area and sex | Percentage | of illiteracy 1 | Reduction in | Decennial |
|--------------|------------|-----------------|-----------------------------|------------------|
| | 1921 | 1931 | percentage of illiteracy | rate of progress |
| Urban | | | | % |
| Male | 3.6 | 2.7 | 0.9 | |
| Female | 2.7 | 2.0 | 0.7 | 25 26 |
| Rural | • | | • | |
| Male | 7.7 | 6. г | ı.6 | 21 |
| Female | 6.5 | 4.9 | r.6 | 25 |

REDUCTION OF ILLITERACY IN DIFFERENT AGE GROUPS

The age groups 10-14 and 15-19 have the lowest illiteracy percentage and the highest rates of progress between 1921 and 1931. In

TABLE 39. Reduction of illiteracy in the population of Canada 10 years old and over, by sex and age groups: 1921-31

| Sex and | Percentage | of illiteracy | Reduction in | Decennial | |
|---------------------|------------------|---------------|-----------------------------|------------------|--|
| age groups | 1921 1931 | | percentage of illiteracy | rate of progress | |
| Male | | | | % | |
| 10 years and over | 6.4 | 4.8 | 1.6 | 25 | |
| 10-14 | 2.3 | 1.3 | 1.0 | 43 | |
| 15-19 | ¹ 3.6 | 2.1 | 1.5 | 42 | |
| 20-34 | ² 5.0 | 3.6 | 1.4 | 28 | |
| 35-64 | 8.1 | 6.1 | 2.0 | 25 | |
| 65 years and over 3 | 16.6 | 13.8 | 2.8 | 17 | |

| Sex and | Percentage | of illiteracy | Reduction in | Decennial |
|---------------------------|------------------|---------------|-----------------------------|------------------|
| age groups | 1921 | 1931 | percentage of illiteracy | rate of progress |
| Female | | | | % 28 |
| 10 years and over | 5.0 | 3.6 | 1.4 | 28 |
| 10-14 | 1.9 | 1.1 | o.8 | 42 |
| 15-19 | 12.6 | 1.4 | 1.2 | 46 |
| 20-34 | ² 3·9 | 2.6 | 1.3 | 33 |
| 35-64 | 6.4 | 4.7 | 1.7 | 27 |
| 65 years and over 3 | 14.9 | 11.3 | 3.6 | 24 |
| 1 15-20 years. | | | | |
| ² 21-34 years. | | | | |

³ Including age unknown.

general, the female population leads the male both in having a lower illiteracy rate and a higher rate of progress for each of the age groups shown in Table 39. The only apparent exception is in the age group 10-14, where the sexes are becoming more equal, with the male rate of progress slightly exceeding the female rate.

ILLITERACY IN CANADA, 1941

At the census of 1941, the question on literacy was discontinued and replaced by a question on the total number of years of schooling received by the person enumerated. The returns were tabulated separately for the population 5-24 years of age attending school, the population 10 years old and over not attending school, and the gainfully occupied population, 14 years old and over.

The relationship between illiteracy and number of years of schooling has not been directly ascertained for the population of Canada. Somewhat comparable data, however, are available from a sample survey, conducted in the United States in 1947, of illiteracy in the civilian non-institutional population 14 years old and over, by years of school completed. See the section on the United States.

The United States data refer to persons 15 years old and over. Hence it will be necessary to assume that persons 10-14 years old with no schooling were all illiterate, and that those in this age group with one to four years schooling had the same percentage of illiteracy as persons 15 years old and over.

Table 40 shows the method of computing the estimated number of illiterates in each sex and age group, by urban and rural residence and by years of schooling. The result gives a total estimated number of illiterates 10 years old and over as about 377,000. The results of the United States survey, adapted for application to the data from the 1941 census of Canada, are as follows:

| | Percentage of illiteracy among persons | | | |
|--------------|--|-----------------------------------|--|--|
| Area and sex | Completing no years of school | Completing 1-4 years of school | | |
| Urban: Male | 73.5 | 15.6 | | |
| Female | 77.5 | 15.6 | | |
| Rural: Male | 85.1 | 29.0 | | |
| Female | $8_{5}.6$ | 17.7 | | |

TABLE 40. Estimated number of illiterates in the population of Canada, 10 years old and over, based on number of years of schooling and assumed percentage of illiteracy, by urban and rural residence, sex and age groups: 1941

| | | Persons with no schooling | | | Persons with 1-4 years schooling | | |
|----------------------------|-------------------|-------------------------------|-------------------------------|-------------------|-------------------------------------|-------------------------------|--|
| Area, sex and age group | No. of Persons | Assumed % of illiteracy | Est. No. of illiterates | No. of persons | Assumed % of illiteracy | Est. No. of illiterates | |
| Urban: male | | | | | | | |
| 10-14 years | 1 123 | 100 | 1 123 | 60 726 | 16 | 9 716 | |
| 15-19 years | 901 | 73 | 658 | 5 805 | 16 | 929 | |
| 20 years and over | 41 521 | 73 | 30 310 | 147 008 | 16 | 23 521 | |
| Total (10 years and | over) | | 32 091 | | | 34 166 | |
| Urban: female | | | | | | | |
| 10-14 years | 996 | 100 | 996 | 57 785 | 16 | 9 246 | |
| 15-19 years | 986 | 77 | 759 | 6 634 | 16 | 1 061 | |
| 20 years and over | 36 718 | 77 | 28 273 | 121 569 | 16 | 19 451 | |
| Total (10 years and or | ver) | | 30 028 | | | 29 758 | |
| Rural: male | | | | | | | |
| 10-14 years | 4 203 | 100 | 4 203 | 88 047 | 29 | 25 534 | |
| 15-19 years | 3 767 | 85 | 3 202 | 16 436 | 29 | 4 766 | |
| 20 years and over | 70 082 | 85 | 59 57° | 215 506 | 29 | 62 497 | |
| Total (10 years and ov | zer) | | 66 975 | | | 92 797 | |
| Rural: female | | | | | | | |
| 10-14 years | 3 506 | 100 | 3 506 | 79 738 | 18 | 14 353 | |
| 15-19 years | 3 201 | 86 | 2 753 | 11 225 | 18 | 2 021 | |
| 20 years and over | 54 494 | 86 | 46 865 | 122 350 | 18 | 22 023 | |
| Total (10 years and o | ver) | | 53 124 | | | 38 397 | |

Relating these estimated numbers to the enumerated population 10 years old and over at the 1941 census, we obtain:

| Sex | Enumerated population 10 years old and over | Estimated No. of illiterates | Estimated percentage of illiteracy |
|------------|--|---------------------------------|------------------------------------|
| Both sexes | 9 408 981 | 377 336 | 4.0 |
| Male | 4 837 541 | 226 029 | 4.7 |
| Female | 4 571 440 | 151 307 | $3 \cdot 3$ |

These estimated percentages are probably too high when compared with the results of the 1921 and 1931 censuses. If the decennial rates of progress found between 1921 and 1931 were applied to the period between 1931 and 1941, the following estimates would have been obtained:

| | Population 10 years old and over | | | | | |
|------------|-------------------------------------|----------------------------------|---|---|--|--|
| Sex | Percentage of illiteracy 1931 | Decennial rate of progress | Reduction in percentage of illiteracy | Estimated percentage of illiteracy 1941 | | |
| | | % | | | | |
| Both sexes | 4.3 | 25 | Ι.Ι | 3.2 | | |
| Male | 4.8 | 25 | 1.2 | 3.6 | | |
| Female | $\tilde{3}.6$ | 28 | 1.0 | 2.6 | | |

From the above analysis, it can be stated that the percentage of illiteracy remaining in Canada in 1941 was probably between three and four per cent among the population 10 years old and over, with the male percentage nearer four and the female percentage nearer three.

PROGRESS OF LITERACY IN NEWFOUNDLAND

The only data available on literacy in Newfoundland from the censuses of 1901 and 1911 are as follows:

| | | Population of all ages | |
|---------------------|-------------------------|-------------------------|--------------------------|
| Census year and sex | Total No. of persons | Persons able to read | Persons able to write |
| 1901: Male | 112 697 | 57 079 | 49 260 |
| Female | 106 910 | 58 851 | 48 823 |
| 1911: Both sexes | 242 619 | • • • | 134 672 |

If the last column is taken to include persons able both to read and to write, then the illiteracy rate in the total population of all ages would be about 55.3 per cent in 1901 and 44.5 per cent in 1911.

Between 1921 and 1945 the percentage of illiteracy in the population 10 years old and over was reduced from 24.1 to 13.2, showing an average rate of progress of about 22 per cent. This is a little less than the rate of progress in the rest of Canada between 1921 and 1931.

TABLE 41. Number and percentage of illiterates in the population of Newfoundland, 10 years old and over: 1921-45

| 0 | P | opulation 10 years old and ove | r |
|----------------|----------------------|------------------------------------|--------------------------|
| Census year | Total No. of persons | Persons not able to read and write | Percentage illiterate |
| 1921 1 | 190 714 | 45 922 | 24.1 |
| 1935 | 221 384 | 47 047 | 21.3 |
| 1945 | 242 025 | 31 961 | 13.2 |

¹ Persons 11 years old and over.

Between 1935 and 1945, the rate of progress was considerably higher, being about 38 per cent for both sexes, 36 per cent for the male population and 40 per cent for the female.

TABLE 42. Reduction of illiteracy in the population of Newfoundland, 10 years old and over, by sex: 1935-45

| Sex | Percentage of illiteracy | | Reduction in percentage | Decennial rate of |
|------------|--------------------------|------|-------------------------|----------------------|
| | 1935 | 1945 | of illiteracy | progress |
| D 1 | | | | % |
| Both sexes | 21.3 | 13.2 | 8.1 | 38 |
| Male | 24.2 | 15.4 | 8.8 | 36 |
| Female | 18.1 | 10.9 | 7.2 | 40 |

The population of Newfoundland in 1935 and 1945 was over 98 per cent native, with most of the remainder born in Canada, the United Kingdom or the United States. However, the isolated living conditions of this population are shown by the fact that only about one-third of the people in 1945 lived within settlements of 1,000 or more inhabitants. Actually there were only seven settlements exceeding 2,500 inhabitants, besides the city of

St. John's. This factor must obviously be taken into account in considering the progress of literacy in Newfoundland.

CONSISTENCY AND RELIABILITY OF DATA

The instructions to Canadian census enumerators in 1911 and 1921 relating to the question on literacy were as follows:

'If the person can read in any language the question will be answered in the proper column by writing "yes", and "no" if unable to read.'

'If the person can write in any language the question will be answered in the proper column by "yes", and "no" if unable to write.'

In the 1931 census, however, the two questions 'can read' and 'can write' were combined in one, 'can read and write', with the following instructions given to the enumerators:

'If the person can read and write in any language the question will be answered by writing "W", but if the person is able to read only in any language write "R". For a person who cannot read nor write enter "No". For a blind person write "Yes" if the person could read and write in any language before becoming blind or if, being born blind, he or she has been taught to read and write.'

'Do not return any person as able to read and write simply because he can write his own name. For persons under 5 years of age leave the column blank.'

The report of the Newfoundland census of 1945 contains the following explanation:

'Every person enumerated was asked if he could read and write, not only his own name, but whether he had a knowledge of reading and writing. For persons who could read and write, the entry was "RW"; for those who could read only, the entry was "R"; and for persons who could neither read nor write, the entry was "No".'

CEYLON: 1901-46

CRITERION OF LITERACY

The report of the census of Ceylon, 1946, contains the following statement, which is understood to apply to previous censuses

also: 'For census purposes, a "literate" person is one who can both read and write a language, and the instructions to enumerators required that persons who had learnt to read and not write a language, and persons who had learnt to sign or write their names but not to read other script, should be excluded from the category of "literates".'

In the census reports during the period under consideration, literacy data have been tabulated for the population 5 years old and over, thus excluding those who are 'regarded as being too young for instruction'.

REDUCTION OF ILLITERACY IN THE TOTAL POPULATION

Using the above definition, and considering only the population 5 years old and over, the number and percentage of illiterates in Ceylon at each census year from 1901 to 1946 are given in Table 43.

TABLE 43. Number and percentage of illiterates in the population of Ceylon, 5 years old and over: 1901-40

| O | 1 | Population 5 years old and over | |
|----------------|-------------------------|---------------------------------------|--------------------------|
| Census year | Total No. of persons | Persons not able to read and write | Percentage illiterate |
| 1901 | 2 927 178 | 2 153 982 | 73.6 |
| 1911 | 3 498 375 | 2 415 547 | 69.0 |
| 1921 | 3 854 394 | 2 317 446 | 6о. г |
| 1946 | 5 795 900 | 2 443 111 | 42.2 |

The reduction in the percentage of illiteracy during each period between censuses, expressed in absolute and relative terms, is

TABLE 44. Reduction of illiteracy in the population of Ceylon, 5 years old and over, by decennial periods: 1901-40

| | Percentage of | f illiteracy | Reduction in | Average decennial rate of progress |
|---------|------------------------|---------------------|---|------------------------------------|
| Period | At beginning of period | At end of period | percentage of illiteracy | |
| | | | | % |
| 1901-11 | 73.6 | 69.o | 4.6 | 6 |
| 1911-21 | 69.0 | 60.1 | $\substack{\textbf{4.6}\\\textbf{8.9}}$ | 13 |
| 1921-46 | 60. г | 42.2 | 17.9 | 13 |
| 1901-46 | 73.6 | 42.2 | 31.4 | 12 |

shown in Table 44. In 45 years between 1901 and 1946, more than two-fifths of the illiteracy existing in 1901 had been eliminated, at an average decennial rate of progress of 12 per cent.

REDUCTION OF ILLITERACY, BY SEX

Illiteracy among the female population has been much higher than among the male in all the successive censuses, and the rate of progress in literacy among the female population has also lagged behind that of the male. As may be seen from Table 45, even though the percentage of illiteracy decreased more among the female population than among the male during the whole period of 45 years between 1901 and 1946, the average decennial rate of progress for the female population was only 10 per cent compared with 14 per cent for the male population.

Table 45. Reduction of illiteracy in the population of Ceylon, 5 years old and over, by sex: 1901-46

| | | Percentage | of illiterac | у | Reduction in | Average decennial |
|------------|------|------------|--------------|---------------------------------------|-------------------------|----------------------|
| Sex | 1901 | 1911 | 1921 | 1946 | illiteracy 1901-1946 | rate of progress |
| | | | | · · · · · · · · · · · · · · · · · · · | | % |
| Both sexes | 73.6 | 69.0 | 60. r | 42.2 | 31.4 | 12 |
| Male | 58.o | 52.8 | 43.7 | 29.9 | 28.1 | 14 |
| Female | 91.5 | 87.5 | 78.8 | 56.2 | 35.3 | 10 |

ILLITERACY AMONG ETHNIC GROUPS

The census report for 1921 shows the relative proportions of the principal ethnic groups in the population as follows: Low-country Sinhalese, 42.8%; Kandyan Sinhalese, 24.2%; Ceylon Tamils, 11.5%; Indian Tamils, 13.4%; Ceylon Moors, 5.6%; Indian Moors, 0.7%; Europeans, 0.2%; Burghers and Eurasians, 0.7%; Malays, 0.3%; Veddas, 0.1%; others, 0.5%.

According to the same report, the percentage of illiteracy among these ethnic groups for the census years 1901, 1911, and 1921, among the male and female population 5 years old and over, were as given in Table 46. It is evident that there is great variation in the amount of illiteracy among these ethnic groups, ranging from the Europeans with one to three per cent illiteracy in

1921, to the Veddas with 90 to 98 per cent illiteracy at the same census.

TABLE 46. Percentage of illiteracy in the population of Ceylon, 5 years old and over, by sex and ethnic groups: 1901-21

| . | | P | ercentage o | f illiteracy | | |
|-----------------------|------|--------|-------------|--------------|--------------|--------|
| Ethnic | 1901 | | 19 | II | 1921 | |
| group | Male | Female | Male | Female | Male | Female |
| All groups | 58.0 | 91.5 | 52.8 | 87.5 | 43.7 | 78.8 |
| Low-country Sinhalese | 49.5 | 86.2 | 43.I | 79 - 3 | $34 \cdot 7$ | 67.8 |
| Kandyan Sinhalese | 61.8 | 98.0 | 56.7 | 96.7 | 46.3 | 91.3 |
| Ceylon Tamils | | • | (46.3 | 87.2 | 37.7 | 76.3 |
| | 67.7 | 95.2 | } | - | | |
| Indian Tamils | | | 77.7 | 98.3 | 69.4 | 93.5 |
| Ceylon Moors | | | 62.4 | 96.9 | 52.8 | 93.9 |
| | 59.7 | 96.8 | } | | | |
| Indian Moors | | | 46.4 | 97.8 | 35.8 | 94.5 |
| Europeans | 1.0 | 1.4 | 1.3 | 4.0 | 1.2 | 2.7 |
| Burghers and Eura- | | | | | | |
| sians | 15.3 | 21.3 | 18.9 | 22.3 | 13.8 | 15.3 |
| Malays | 35.3 | 79.6 | 37.5 | 82.9 | 28.8 | 65.8 |
| Veddas | 95.6 | 99.8 | 90.5 | 99.1 | 89.5 | 98.3 |
| Others | 52.1 | 80.0 | 56.0 | 85.8 | 39.9 | 72.2 |

Considering only the six largest groups, which together constituted over 98 per cent of the total population in 1921, it may be seen from Table 46 that relatively more progress was made during the decade 1911-21 among the male population of the two Sinhalese groups, the Ceylon Tamils and the Indian Moors. Except among the Low-country Sinhalese and the Ceylon Tamils, the female population lagged far behind the male in each group.

TABLE 47. Reduction of illiteracy among the six principal ethnic groups of the population of Ceylon, 5 years old and over: 1911-21

| Ethnic group | Percentage | of illiteracy | Reduction in percentage | Decennial rate of | |
|-----------------------|------------|---------------|-------------------------|----------------------|--|
| and sex | 1911 1921 | | of illiteracy | progress | |
| Low-country Sinhalese | | | | % | |
| Male | 43.1 | 34.7 | 8.4 | 19 | |
| Female | 79.3 | 67.8 | 11.5 | 15 | |
| Kandyan Sinhalese | | | | | |
| Male | 56.7 | 46.3 | 10.4 | 18 | |
| Female | 96.7 | 91.3 | $5\cdot\overline{4}$ | 6 | |

| Ethnic group | Percentage | of illiteracy | Reduction in | Decennial |
|---------------|------------|---------------|-----------------------------|------------------|
| and sex | 1911 | 1921 | percentage of illiteracy | rate of progress |
| Ceylon Tamils | | | | % |
| Male | 46.3 | $37 \cdot 7$ | 8.6 | 19 |
| Female | 87.2 | 76.3 | 10.9 | 13 |
| Indian Tamils | • | , , | J | J |
| Male | 77 - 7 | 69.4 | 8.3 | 11 |
| Female | 98.3 | 93.5 | 4.8 | 5 |
| Ceylon Moors | 5 0 | 33 3 | 1 | 3 |
| Male | 62.4 | 52.8 | 9.6 | 15 |
| Female | 96.9 | 93.9 | 3.0 | 3 |
| Indian Moors | 3 3 | 33 3 | 3 | 3 |
| Male | 46.4 | 35.8 | 10.6 | 23 |
| Female | 97.8 | 94.5 | 3.3 | 3 |
| | | | | |

LITERACY IN THE ENGLISH LANGUAGE

The census reports give separate tabulations of the population regarding literacy in the English language. In the total population 5 years old and over, the percentage of persons able to read and write English increased from 2.6 in 1901 to 6.3 in 1946, with the male population surpassing the female by more than 2 to 1 at every census during this period.

TABLE 48. Literacy in English among the population of Ceylon 5 years old and over: 1901-46

| Census | Percenta | ge of persons literate in | English |
|--------|------------|---------------------------|---------|
| year | Both sexes | Male | Female |
| 1901 | 2.6 | 3.7 | I.4 |
| 1911 | 2.7 | 3.8 | 1.5 |
| 1921 | 3.7 | 5.2 | 2.1 |
| 1946 | 6.3 | 8.4 | 4.0 |

LITERACY AMONG THE URBAN POPULATION

The 1946 census report, for the first time, made separate mention of the extent of literacy among the urban population, which constituted about 15 per cent of the total population.

'Literacy in towns was, of course, decidedly better, and a percentage of 73 of the urban population, 5 years of age and over, was returned in 1946 as being able both to read and write.

'The highest percentage of literates was found within the Wattegama (85.2) and the Jaffna (82.2) urban council areas.... The majority of both males and females in the Island's urban population was found to be literate.' (Census of Ceylon, 1946, Vol. I, Part. I, pp. 189, 190.)

CONSISTENCY AND RELIABILITY OF DATA

In the census reports during this period, the population tabulated for literacy always excluded the military and shipping population, and in the census of 1901, also excluded about 5,000 prisoners of war. In general, the percentage of illiteracy has been computed on the population 5 years old and over.

The census report for 1921 contains the following statement on the margin of error which is of course inherent in all census statistics on illiteracy.

'A common example of literacy given to the enumerators was that of ability to read and write a short letter, but it is doubtful to what extent the enumerators adhered to some such standard, or used it to test claims to literacy on the part of the persons enumerated... It is probable that untested statements were often accepted, and it is clear that the definition of literacy might tend to vary with the mentality of the enumerator. The possibility of this variation must, therefore, be borne in mind when the figures of literacy are being utilized, but no estimate can be made of the amount of the error, though it may be presumed that the literacy figures would tend to be somewhat overstated.' (Census of Ceylon, 1921, Vol. I, Part II, p. 60.)

CHILE: 1907-40

CRITERION OF LITERACY

The question on literacy asked in the Chilean censuses during this period is simply whether the person is able to read. No reference is made, either in the census schedule or in the reports, to the person's ability to write. Nor is any criterion indicated as to what

constituted 'ability to read'. Hence there may be included among the literates thus defined many persons who would have been considered as illiterates under a more rigid criterion.

ILLITERACY IN THE TOTAL POPULATION

For the censuses of 1907 and 1920, the number of persons able to read and those not able to read were reported for the total population of all ages. In 1930, the question was limited to persons 8 years old and over; in 1940, to persons 7 years old and over. In order to bring the results of these four censuses into comparison, the following analysis will be based on the number and percentage of illiterates among the total population 10 years old and over.

The number of persons 10 years old and over not able to read was 1,202,150 in 1907, but had fallen to 971,449 in 1940, even though the total population had increased by about 50 per cent during that period. Thus the illiteracy rate was reduced from 49.9 to 26.4 per cent in a period of 33 years, which represents an average rate of progress of 18 per cent per decade.

TABLE 49. Number and percentage of illiterates in the population of Chile, 10 years old and over: 1907-40

| <u> </u> | Po | pulation 10 years old and ove | er |
|----------------|-----------------------------------|-------------------------------|---------------------------------------|
| Census year | Total No. of persons ¹ | Persons not able to read | Percentage illiterate ² |
| 1907 | 2 408 497 | 1 202 150 | 49.9 |
| 1920 | 2 773 110 | 1 023 996 | 36.9 |
| 1930 | 3 055 658 | 746 154 | 24.4 |
| 1940 | 3 675 119 | 971 449 | 26.4 |

¹ Excluding persons of literacy unspecified, numbering 106,503 in 1930 and 91,560 in 1940.

This average rate of progress over the period 1907-40 is less than that shown for either of the two earlier intercensal periods between 1907 and 1930 appearing in Table 50. This is due to an apparent setback between 1930 and 1940, which will be discussed below.

These percentages, referring to those who cannot read, are not directly comparable with percentages of illiteracy computed on a different criterion.

TABLE 50. Reduction of illiteracy in the population of Chile, 10 years old and over by decennial periods: 1907-40

| | Percentage of | illiteracy | Reduction | Decennial rate of progress |
|---------|------------------------|---------------------|-------------------------------|----------------------------------|
| Period | At beginning of period | At end of period | of illiteracy ¹ | |
| | | | | % |
| 1907-20 | 49.9 | 36.9 | 13.0 | 21 |
| 1920-30 | 36.9 | 24.4 | 12.5 | 34 |
| 1930-40 | 24.4 | 26.4 | + 2.0 | • |
| 1907-40 | 49.9 | 26.4 | 23.5 | 18 |

REDUCTION OF ILLITERACY BY SEX

The percentage of illiteracy has been higher among the female population than among the male during the entire period under consideration. Although the amount of illiteracy was reduced slightly more among the females yet, because of their higher initial illiteracy, their relative rate of progress is slightly less than that of the males.

TABLE 51. Reduction of illiteracy in the population of Chile, 10 years old and over, by sex: 1907-40

| Sex | Percentage of illiteracy | | | Reduction of illiteracy | Average decennial | |
|------------|--------------------------|------|------|-------------------------|----------------------|------------------|
| | 1907 | 1920 | 1930 | 1940 | 1907-40 | rate of progress |
| | | | | | | % |
| Both sexes | 49.9 | 36.9 | 24.4 | 26.4 | 23.5 | 18 |
| Male | 46.9 | 35.4 | 22.2 | 24.6 | 22.3 | 18 |
| Female | 52.9 | 38.4 | 26.6 | 28.2 | 24.7 | 17 |

ILLITERACY IN THE URBAN AND RURAL POPULATION

The only tabulation on literacy by urban and rural classification was given in the 1907 census report, relating to the population of all ages. This showed an illiteracy percentage of 45.7 for the urban population compared with 71.0 for the rural population. No such tabulations have been given in the later census reports.

ILLITERACY IN THE SCHOOL-AGE POPULATION

Effectiveness in enforcing the laws of compulsory education can be measured by an analysis of the amount of illiteracy in the schoolage population. The census reports for 1907 and 1920 gave a definition of school-age as from 6 to 14 years. The 1940 census report defined school-age as from 7 to 15 years. But comparative figures for 1930 are available only for the age-group 8-15, since the question on literacy in the census of 1930 was confined to persons 8 years old and over. Table 52 shows the percentage of illiterates in the school-age population thus defined, for each of the census years between 1907 and 1940.

TABLE 52. Percentage of illiteracy in the school-age population of Chile: 1907-40

| Census year | Age level | Total school | Percentage of illiteracy | | |
|----------------|--------------|-------------------|--------------------------|------|--------|
| | | age population | Both sexes | Male | Female |
| 1907 | 6-14 | 715 202 | 62.7 | 63.0 | 62.5 |
| 1920 | 6-14 | 863 777 | 50.3 | 52.1 | 50.8 |
| 1930 | 8-15 | ¹ 756 390 | 23.8 | 24.0 | 23.6 |
| 1940 | 7-15 | ¹ 1 095 057 | 34.4 | 34.9 | 33.8 |

¹ Including persons whose literacy status was unknown (54,575 in 1930; 43,125 in 1940). The percentages of illiteracy are computed on the basis of the total population, less persons of literacy unspecified.

ILLITERACY IN DIFFERENT AGE GROUPS

The females in the two youngest age groups are shown in Table 53 to have had lower illiteracy rates than the males at each of the censuses between 1920 and 1940. Every age group registered progress during this period, male persons showing a slightly more rapid rate of progress for age groups from 40 up. It seems from this analysis that male persons born before 1900 had better educational opportunities than female persons of the same age, but that among those born after 1900 the advantage was gradually shifting to the females.

TABLE 53. Reduction of illiteracy in the population of Chile, 10 years old and over, by sex and age groups: 1920-40

| Sex and | Percent | age of illi | teracy | Reduction of | Average decennial |
|-------------------|--------------|--------------|--------|-----------------------|----------------------|
| age group | 1920 | 1930 | 1940 | illiteracy 1920-40 | rate of progress |
| Male | | | | | % |
| 10 years and over | 35 · 4 | 22.2 | 24.6 | 10.8 | 17 |
| 10-14 | $39 \cdot 3$ | 19.7 | 23.4 | 15.9 | 23 |
| 15-19 | $33 \cdot 3$ | 18.1 | 23.0 | 10.3 | 17 |
| 20-24 | 28.8) | .0 - | 20.0 | 8.8 | 17 |
| 25-29 | 29.4 | 18.5 | 20.3 | 9.1 | 17 |
| 30-39 | 31.4 | 20.4 | 22.0 | $9 \cdot 4$ | 16 |
| 40-49 | 36.3 | 24.5 | 25.7 | 10.6 | 16 |
| 50-59 | 41.3 | 29.4 | 30.5 | 10.8 | 14 |
| 60 and over | $53 \cdot 3$ | 40.8 | 41.9 | 11.4 | II |
| Female | | | | | |
| 10 years and over | 38.4 | 26.6 | 28.2 | 10.2 | 14 |
| 10-14 | 37.7 | 19.2 | 22.5 | 15.2 | 22 |
| 15-19 | 30.5 | 16.6 | 20.9 | 9.6 | 17 |
| 20-24 | 30.6) | | 21.2 | 9.4 | 17 |
| 25-29 | 33.8 🕽 | 21.6 | 22.9 | 10.9 | 18 |
| 30-39 | 38.4 | 27.2 | 27.7 | 10.7 | 15 |
| 40-49 | 42.8 | $33 \cdot 7$ | 34.0 | 8.8 | II |
| 50-59 | 46.7 | 38.4 | 40.1 | 6.6 | 7 |
| 60 and over | 58. ı | 49.6 | 49.8 | 8.3 | 7 |

This conclusion is further borne out by comparing the illiteracy rates of selected cohorts at each of the censuses between 1920 and 1940, as shown in Table 54.

TABLE 54. Reduction of illiteracy in the population of Chile by selected cohorts: 1920-40

| | Cohort | Perce | ntage of illi | teracy | | uction of literacy 1 | Decennial rate of progress | | |
|---------|---|--------------|---------------|--------------------------|-----------------------------------|-------------------------|----------------------------|---------|--|
| Control | | 1920 | 1930 | 1940 | 1920- | 30 1930-40 | 1920-30 | 1930-40 | |
| Ī. | Persons born 1881-90 Im. Male If. Female | 31.4 38.4 | 24.5 33.7 | • | 6.9 4.7 | • | % 22 12 | • | |
| II. | Persons born 1891-1900 IIm. Male IIf. Female | 29.1 32.2 | 20.4 27.2 | ² 5·7 34.0 | 8. ₇ _{5.0} | + 5.3 + 6.8 | 30 15 | • | |

¹ A plus sign in this column indicates increase of illiteracy.

PROGRESS OF LITERACY

| Cohort | Percentage of illiteracy | | | | tion of eracy | Decennial rate of progress | | |
|------------------------------|--------------------------|-----------------|---------------------------------------|---------|------------------|----------------------------|--------|--|
| | 1920 | 1930 | 1940 | 1920-30 | 1930-40 | 1920-30 1 | 930-40 | |
| III. Persons born | | | · · · · · · · · · · · · · · · · · · · | | | % | | |
| IIIm. Male | 36.5 | 18.5 | 22.0 | 18.o | + 3.5 | 49 | | |
| IIIf. Female | 34.2 | 21.6 | 27.7 | 12.6 | +6.1 | 37 | | |
| IV. Persons born | | | | | | | | |
| IVm. Male | • | 18.9 | 20.2 | • | + 1.3 | • | | |
| IVf. female | • | 17.9 | 22.0 | • | + 4.1 | • | | |
| 1 A plus sign in this column | n indicates inc | rease of illite | eracy. | | | | | |

CONSISTENCY AND RELIABILITY OF DATA

Examination of the figures in Tables 53 and 54 shows that, without exception, each cohort seems to have increased in illiteracy between 1930 and 1940. This may be partly explained by an actual relapse into illiteracy by some of the older persons. But it is hardly believable that, while persons who were 10-19 years old in 1920 (cohort III) reduced their illiteracy rate almost by half during the next decade, the same group of persons showed more illiteracy 10 years later. Similarly, the 20-29 age group in 1920 (cohort II) became about one-third less illiterate 10 years later, but again the same group appeared as more illiterate at the 1940 census. This leads to a suspicion that there may have been serious errors in enumeration of literacy in the various censuses of this period, or possibly some radical change in criterion of literacy between the 1930 and 1940 censuses.

COLOMBIA: 1918-38

ILLITERACY IN THE TOTAL POPULATION

The census report of 1938 shows that 92.5 per cent of all children under 10 years of age were not able to read. If these children are excluded, the percentage of illiteracy, considering only the population 10 years old and over, was 44.2 in 1938, compared with 48.4 per cent in 1928. Assuming that 92.5 per cent of the children under 10 were also illiterate in 1918 and that all persons of unspecified literacy status in 1918 were 10 years old and over, then the comparable percentage of illiteracy in 1918 would be

57.6. This would mean an average rate of progress of about 12 per cent per decade during the period 1918-48.

TABLE 55. Number and percentage of illiterates in the population of Colombia, 10 years old and over: 1918-38

| | Population | 10 years old and over | |
|--------|-------------|--------------------------|------------|
| Census | Total No. | Persons not able to read | Percentage |
| year | of persons | | illiterate |
| 1918 | 1 3 846 283 | *2 215 654 | *57.6 |
| 1928 | 5 610 715 | 2 717 585 | 48.4 |
| 1938 | 2 6 112 712 | 2 2 699 374 | 44.2 |

¹ Excluding 158,428 indigenous and 313,179 other persons unspecified for literacy.

ILLITERACY BY SEX AND AGE

The percentage of illiteracy among the female population has been higher than among the male by about five per cent. The relative rate of progress, however, has been almost equal for both sexes, with a slight advantage for the male population.

TABLE 56. Reduction of illiteracy in the population of Colombia, 10 years old and over, by sex: 1918-38

| Sex | Percer | ntage of illite | racy | Reduction of illiteracy | Average decennial |
|------------|--------|-----------------|------|-------------------------|----------------------|
| | 1918 | 1928 | 1938 | 1918-38 | rate of progress |
| | | | | | % |
| Both sexes | *57.6 | 48.4 | 44.2 | 13.4 | 12 |
| Male | *54.5 | 46.2 | 41.7 | 12.8 | 13 |
| Female | *60.4 | 50.7 | 46.5 | 13.9 | 12 |

Data for the computation of percentages of illiteracy by certain age groups are available only for 1938. At that census the percentage of illiteracy among all children of school age (7-14 years old) was found to be 57.7, with the percentage for male children (58.3) a little higher than that for female children (57). In the adult age groups, however, the percentages of illiteracy in the female population were higher than those in the male population for both the age groups 15-29 years, and 30 years and over.

² Excluding 4,775 indigenous persons in Norte de Santander, reported as all illiterate.

TABLE 57. Percentage of illiteracy in the population of Colombia, 7 years old and over, by sex and broad age groups: 1938

| Age group | Percentage of illiteracy | | | | |
|------------------|--------------------------|--------------|--------|--|--|
| | Both sexes | Male | Female | | |
| 7 years and over | 47 · 7 | 45.7 | 49.7 | | |
| 7-14 | 57.7 | 58.3 | 57.0 | | |
| 15-29 | $37 \cdot 4$ | $35 \cdot 7$ | 38.9 | | |
| 30 and over | 50.2 | 45.6 | 54.7 | | |

ILLITERACY IN THE URBAN AND RURAL AREAS

Considering only the children of school age (7-14 years), the percentage of illiteracy for all urban areas was 37.2 (male, 37.8; female, 36.7); and for all rural areas was 66.1 (male 66.2; female 65.9). It is seen that the percentage of illiteracy in rural areas, among children of school age, was considerably higher than that in urban areas, thus reflecting the inequality of educational opportunities in the urban and rural areas of the country. Similar comparisons for the adult age groups are not possible, owing to lack of separate data for urban and rural areas.

ILLITERACY AND SEMI-LITERACY

The above analysis is based on the definition of illiteracy as inability to read, which is the only basis possible for comparisons of data from the different censuses of Colombia. In the 1918 census report, however, a separate classification was given of persons 'able to read only', who amounted to 2.0 per cent of the total population (1.7 per cent of the male population; 2.3 per cent of the female). Because of the absence of this classification in the 1938 census, it is not possible to assess the amount of semi-literacy in the population at that time. Since the criterion of literacy in most countries is 'ability both to read and write', it should be noted that the extent of illiteracy in Colombia, as given in the tables above, is understated by an unknown amount, perhaps about two per cent.

CUBA: 1899-1943

CUBA: 1899-1943

CRITERION OF LITERACY

Definitions of literacy and illiteracy are not available for the censuses prior to 1943. However, the literacy tabulations in the various census reports enable certain interpretations to be made of the criterion of literacy used in those censuses.

In the census report for 1899, the total population was classified as follows:

| Total population | | | | | | | | 1 572 797 |
|-----------------------------|---|--|--|--|---|---|---|-----------|
| Under 10 years of age: | | | | | | | | |
| Attended school | | | | | | | | 40 559 |
| Did not attend school | | | | | | | | 316 428 |
| 10 years of age and over: | | | | | | | | |
| Attended school | | | | | | ٠ | | 47 376 |
| Can neither read nor write. | | | | | | | | 690 565 |
| Can read, but cannot write. | | | | | • | | | 32 772 |
| Can read and write | ٠ | | | | | | | 443 670 |
| Not stated | | | | | | | • | 1 427 |

In connexion with the summary table on literacy, it was stated that all children attending school were assumed able to read and write, and that all those under 10 years of age and not attending school were assumed not able to read.

In the census of 1907, the population was classified by literacy as follows:

| Total population | 2 048 980 |
|---------------------------|-----------|
| Under 10 years of age: | |
| Attending school | 64 111 |
| Not attending school | 503 296 |
| 10 years of age and over: | |
| Attending school | 107 258 |
| Not attending school: | |
| Literate | 725 894 |
| Illiterate | 643 615 |
| Not stated | 4 806 |

Again it was stated that no serious error could be made by assuming that all children attending school were able to read and all under 10 years of age and not attending school were not able to read.

A similar assumption seems to have been made in the 1919 census. Information is not available as to the criterion of literacy used at the 1931 census. The 1943 census contained the

question, 'Can you read and write?', to be answered 'yes' for all persons 7 years old and over who could read and write in any language.

However, the results were tabulated to show only the number and percentage of persons able to read.

ILLITERACY IN THE TOTAL POPULATION

The available data on the number and percentage of illiterates in the population 10 years old and over, at each census between 1899 and 1943 are summarized in Table 58.

TABLE 48. Number and percentage of illiterates in the population of Cuba, 10 years old and over: 1899-43

| Census year | Po | pulation 10 years old and ov | er |
|----------------|-------------------------|--------------------------------|--------------------------|
| | Total No. of persons | Persons not able to read | Percentage illiterate |
| 1899 | 1 214 383 | ² 690 565 | 56.9 |
| 1907 | 1 476 767 | 2 643 615 | 43.6 |
| 1919 | 2 029 824 | ² 784 659 | 38.7 |
| 1931 | 2 920 392 | 824 556 | 28.2 |
| 1943 | 3 340 148 | 789 301 | 23.6 |

¹ Excluding persons unspecified for literacy, numbering 1,427 in 1899; 4,806 in 1907; 12,147 in 1919; 4,145 in 1931; 235,286 in 1943.

Thus, if the criterion of literacy is taken as ability to read, the progress of literacy between 1899 and 1943 may be shown by the reduction of the illiteracy rate from 56.9 to 23.6 per cent in 44 years at an average relative rate of progress of 18 per cent per decade.

REDUCTION OF ILLITERACY, BY SEX

The female population had a higher percentage of illiteracy than the male between 1899 and 1919, but in more recent years it seems to have outstripped the male population in literacy. The average decennial rate of progress among the female population for the entire period 1899-1943 was 21 per cent, compared with 17 per cent among the male.

Not attending school and not able to read.

TABLE 59. Reduction of illiteracy in the population of Cuba, 10 years old and over, by sex: 1899-1943

| Sex | | Percer | ntage of ill | iteracy | | Reduction of | Average decennial |
|-------------------|--------------|--------------|--------------|---------|------|-------------------------|----------------------|
| Sex | 1899 | 1907 | 1919 | 1931 | 1943 | illiteracy 1899-1943 | rate of progress |
| | | | | | | | % |
| Both sexes | 56.9 | 43.6 | 38.7 | 28.2 | 23.6 | 33.3 | 18 |
| Male ¹ | $55 \cdot 4$ | 41.7 | $37 \cdot 9$ | 29.9 | 24.9 | 30.5 | 17 |
| Female 1 | 58.3 | $45 \cdot 4$ | 39.0 | 26.1 | 22.2 | 36. г | 21 |

Percentage of illiteracy, 1899-1931, based on total population including persons of literacy unspecified.

In this connexion the census report of 1943 offers the following observations:

'It is observed that, both in 1931 and in 1943, the proportion of literates was higher among female persons in every province except Pinar del Rio. This is due essentially to the fact that boys start to work at younger ages and in larger numbers than girls, thus affecting their education. Girls, working at home and generally under more severe discipline from their parents, have more opportunity than boys to acquire the rudiments of knowledge. The exception of Pinar del Rio—and to a certain degree that of Havana, where the proportion of literate persons is about equal among males and females—could be due to the same reason, that is, the proportion of women who work is larger in these two provinces than in the others.' (Censo de 1943, p. 780.)

ILLITERACY AMONG DIFFERENT ETHNIC GROUPS

Still more marked are the differences in the extent of illiteracy among the various ethnic groups. The census reports give separate figures on literacy for the native white, foreign white and coloured groups. In 1899, these groups constituted 55 per cent, 11 per cent and 33 per cent respectively. The proportions at the 1943 census were: native white 71 per cent: foreign white 4 per cent; coloured 25 per cent. The respective rates of progress among these population groups are shown in Table 60.

The coloured group started in 1899 with a much higher illiteracy rate than the two white groups, but by 1943 the gap had been all but closed. However, the Cuban census report of 1943 observes that the apparent increase of literacy among the coloured population between 1931 and 1943 was due to a decrease in the number

TABLE 60. Reduction of illiteracy in the population of Cuba, 10 years old and over, by ethnic groups and by sex: 1899-1943

| Ethnic group and sex | F | ercentage o | of illiteracy | 1 | Reduction of illiteracy | Average decennial |
|----------------------------|--------------|-------------|---------------|------|-------------------------|----------------------|
| | 1899 | 1907 | 1919 | 1943 | 1899-1943 | rate of progress |
| Native white | | | | | | % |
| Both sexes | $53 \cdot 4$ | 41.4 | $37 \cdot 3$ | 22.4 | 31.0 | 18 |
| Male | 55.0 | 42.0 | 37.8 | 23.5 | 31.5 | 17 |
| Female | 51.8 | 40.8 | 36.9 | 21.1 | 30.7 | 20 |
| Foreign white | _ | - | | | | |
| Both sexes | 29.3 | 25.6 | 24.7 | 22.4 | 6.9 | 6 |
| Male | 25.4 | 22.3 | 22.7 | 20.4 | 5.0 | 5 |
| Female | 46.9 | 39.9 | 30.7 | 26.0 | 20.9 | 13 |
| Coloured | • | | • | | - | • |
| Both sexes | 72.0 | 55.0 | 46.9 | 27.4 | 44.6 | 20 |
| Male | 73.8 | 55.3 | 48. I | 30.0 | 43.8 | 19 |
| Female | 70.4 | 54.6 | 45.6 | 25.0 | 45.4 | 21 |

¹ For 1899-1919, based on total population including persons of literacy unspecified.

of illiterate persons among them as a consequence of the expulsion from Cuba of many Haitians and Jamaicans, among whom the proportion of illiterates was relatively higher.

Again according to the census report, the illiteracy rate among the foreign white population had been affected by a change in the nationality law, by which persons born in Cuba of foreign parents were classified as natives and not as foreigners in the 1943 census. Since the proportion of illiterates was relatively lower among such persons, this had the effect of decreasing the percentage of illiteracy among the native white group and increasing the percentage among the foreign white group.

ILLITERACY IN THE URBAN POPULATION

As is to be expected, the illiteracy rates among the population in the larger cities have been consistently lower than in the country as a whole. The census report for 1907 did not give separate literacy figures for cities other than Havana, which showed an illiteracy rate of 16.1 per cent among the population 10 years old and over. From the other census reports, it is possible to compare the illiteracy rates among the population in all cities of 25,000 or more inhabitants. The rate of progress in the five largest cities

has been in each case greater than the rate for the population of Cuba as a whole.

TABLE 61. Reduction of illiteracy in the population of Cuba, 10 years old and over, in cities of 25,000 or more inhabitants: 1899-1943

| O't | P | ercentage o | of illiteracy | , 1 | Reduction of | Average decennial |
|-----------------|--------------|-------------|---------------|------------------|-------------------------|----------------------|
| City | 1899 | 1919 | 1931 | 1943 | illiteracy 1899-1943 | rate of progress |
| | | | | | | % |
| Havana | 24.9 | 14.0 | $7 \cdot 4$ | 5.4 | 19.5 | 29 |
| Santiago | 30.5 | 13.5 | 8.7 | $7.\overline{5}$ | 23.0 | 27 |
| Cienfuegos | 30.2 | 14.7 | 8.01 | 7.8 | 22.4 | 26 |
| Camagüey | 26.2 | 15.7 | 9.6 | 8.0 | 18.2 | 24 |
| Matanzas | $33 \cdot 5$ | 8.81 | 11.3 | 8.8 | 24.7 | 26 |
| Guanabacoa | • | | | 8.8 | • | • |
| Guantánamo | | | 11.6 | 10.7 | • | |
| Santa Clara | | | 12.5 | 10.8 | | • |
| Cárdenas | • | 19.8 | 13.5 | 11.4 | • | |
| Sancti-Spiritus | | • | • | 11.7 | • | • |
| Pinar del Rio | | | • | 13.3 | • | • |
| Holguin | • | | • | 15.7 | • | |
| Manzanillo | • | | 15.4 | 17.3 | | |
| Marianao | • | 17.0 | 9.4 | 25.1 | • | • |

¹ For 1919-43, based on total population including persons of literacy unspecified.

If all the cities of 25,000 or more inhabitants are compared with the rest of the country, it is seen that the rate of progress registered by the cities is 22 per cent per decade, as compared with 14 per cent per decade for the rest of the country.

TABLE 62. Reduction of illiteracy in the population of Cuba, 10 years old and over, in cities of 25,000 or more inhabitants, and in the rest of the country: 1899-1943

| | No. of cities | Percentage | of literacy |
|-----------------|-------------------------------------|-----------------------------------|------------------------------|
| Census year | of 25,000 or more inhabitants | In cities of 25,000 or more | In rest of the country |
| 1899 | 5 | 26.8 | 66.7 |
| 1919 | 7 | 14.8 | 46.3 |
| 1931 | 10 | 8.9 | 35.6 |
| 1943 | 14 | 9.1 | 33.8 |
| Reduction in pe | ercentage of illiteracy: 1899-1943 | 17.7 | 32.9 |
| Average decenn | ial rate of progress | 22 % | 14 % |

ILLITERACY IN DIFFERENT AGE GROUPS

Data for comparison of illiteracy by detailed age groups are available only for the three earlier censuses. If, for the present purpose, 'able to read, or attending school' is taken as the criterion of literacy, then the data for 1899, 1907 and 1919 may be compared by sex and age groups as shown in Table 63.

Table 63. Reduction of illiteracy in the population of Cuba, 10 years old and over, by sex and age groups: 1899-1919

| Sex and | Percen | tage of illit | eracy 1 | Reduction of | Average decennia |
|--------------------|---------------|---------------|--------------|-------------------------|---------------------|
| age group | 1899 | 1907 | 1919 | illiteracy 1899-1919 | rate of progress |
| Male | | | | | .% |
| 10 years and over | 55 · 4 | 41.7 | $37 \cdot 9$ | 17.5 | 17 |
| 10-14 | 66.9 | 30.3 | 49.8 | 17.1 | 14 |
| 15-19 | 56.9 | 34.6 | 32.0 | 24.9 | 25 |
| 20-24 | 48.3 | 39.0 | 27.1 | 21.2 | 25 |
| 25-34 | 47.7 | 40.3 | 27.9 | 19.8 | 24 |
| 35-44 | 50.1 | 44.5 | 37.1 | 13.0 | 14 |
| 45-54 | 56.7 | 50.0 | $43 \cdot 3$ | 13.4 | 13 |
| 55-64 | 65.2 | 58.o | 50.9 | 14.3 | 12 |
| 65 and over | $72 \cdot 3$ | 69.0 | 62.0 | 10.3 | 7 |
| Female | | | | | |
| 10 years and over | 58.3 | 45 · 4 | 39.0 | 19.3 | 18 |
| 10-14 | 60.9 | 28.4 | 43.2 | 17.7 | 16 |
| 15-19 | 51.5 | 31.0 | 25.5 | 26.0 | 30 |
| 20-24 | 51.1 | 41.3 | 25.3 | 25.8 | 30 |
| 25-34 | 55.8 | 48.0 | 31.9 | 23.9 | 24 |
| 35 - 44 | 60.7 | 54.8 | 45.1 | 15.6 | 14 |
| 45-54 | 66.2 | 60.7 | 52.2 | 14.0 | 11 |
| 55-64 | 68.3 | 63.9 | 56.8 | 11.5 | 9 |
| 65 and over | 71.5 | 68.o | 63.6 | 7.9 | 6 |

¹ Based on total population including persons of literacy unspecified.

The female population in the two youngest age groups had lower illiteracy rates than the male, and registered a higher rate of progress during the two decades between the censuses of 1899 and 1919. In 1919, the females also surpassed the males in the 20-24 age group by showing a higher rate of progress. The effect of this is seen in the fact that in the next two censuses the illiteracy rate for the female population fell below that for the males (see Table 59 on page 79).

EGYPT: 1907-37

EGYPT: 1907-37

CRITERION OF LITERACY

The question on literacy in the censuses of Egypt is confined to persons 5 years old and over. As defined by the census department, illiterates are persons not able both to read and to write. The census schedule for 1917 contained two separate questions: 'Whether the enumerated person is able to read fluently a printed paper in some one language', and 'Whether the enumerated person is able to write by himself or from dictation a short letter in some one language.'

ILLITERACY IN THE TOTAL POPULATION

From available census reports we obtain the number and percentage of illiterates in the census years 1907, 1917, 1927 and 1937 as shown in Table 64.

TABLE 64. Number and percentage of illiterates in the population of Egypt, 5 years old and over and 10 years old and over: 1907-37

| Census years | Total No. of persons 1 | Persons not able to read and write | Per cent illiterate |
|-----------------|---------------------------|--|------------------------|
| Population 5 | years old and over | | |
| 1907 | 9 413 539 | 8 804 373 | 93.5 |
| 1917 | ² 10 814 061 | 9 950 855 | 92.0 |
| 1927 | ² 12 124 564 | 10 453 669 | 86.2 |
| 1937 | ² 13 812 228 | 11 241 732 | 81.4 |
| | o years old and over | | |
| 1907 | 7 848 024 | 7 277 303 | 92.7 |
| 1917 | 9 161 944 | 8 357 461 | 91.2 |
| 1927 | ³ 10 268 404 | 8 816 601 | 85.9 |
| 1937 | ⁸ 11 603 488 | 9 885 300 | 85.2 |

¹ Excluding the nomadic population, estimated at 40,000 in 1927 and 12,000 in 1937.

It is seen that although the percentage of illiteracy has steadily decreased during the three decades, the number of illiterates has been steadily increasing. Obviously the educational facilities

² Excluding persons unspecified for literacy, numbering 150,003 in 1917; 22,605 in 1927 892 in 1937.

s Excluding persons unspecified for literacy, 19,374 in 1927; 785 in 1937.

of the country have not been enough to meet the demands of a growing population.

Table 65 shows the reduction in percentage of illiteracy and the decennial rate of progress for each of the intercensal decades. The total reduction amounts to 7.5 per cent in 30 years. The average rate of progress is three per cent per decade.

TABLE 65. Reduction of illiteracy in the population of Egypt, 10 years old and over, by decennial periods: 1907-37

| | Percentage of | filliteracy | Reduction | Decennial |
|---------|------------------------|-------------|------------------|-----------|
| Period | At beginning of period | | rate of progress | |
| | | | | % |
| 1907-17 | 92.7 | 91.2 | 1.5 | 2 |
| 1917-27 | 91.2 | 85.9 | 5.3 | 6 |
| 1927-37 | 85.9 | 85.2 | 0.7 | ı |
| 1907-37 | 92.7 | 85.2 | 7.5 | 3 |

To prevent the number of illiterates from growing during this period would have taken an average rate of progress of about 12 per cent per decade. Only if the rate of progress had been more than that could the number of illiterate persons have been reduced.

REDUCTION OF ILLITERACY, BY SEX

Considering the progress of literacy separately for each sex, it is found that while the male illiteracy rate fell about 10 per cent, the female rate fell less than five per cent in the same period of time. The average rate of progress was four per cent per decade for the male population, and two per cent per decade for the female.

Table 66. Reduction of illiteracy in the population of Egypt, 10 years old and over, by sex: 1907-37

| Sex | P | ercentage o | of illiteracy | | Reduction | Average decennial rate of progress |
|------------|------|--------------|---------------|--------------|--------------------------|---|
| | 1907 | 1917 | 1927 | 1937 | of illiteracy 1907-37 | |
| | | | | | | % |
| Both sexes | 92.7 | 91.2 | 85.9 | 85.2 | 7.5 | 3 |
| Male | 87.o | 84.8 | 76. ı | 76.6 | 10.4 | 4 |
| Female | 98.6 | $97 \cdot 7$ | 95.6 | $93 \cdot 9$ | 4.7 | 2 |

ILLITERACY BY NATIONALITY

The foreign population, constituting less than two per cent of the total population of Egypt, has a much lower illiteracy rate than the Egyptians. Their rate of progress also has been correspondingly higher, as shown in Table 67.

TABLE 67. Reduction of illiteracy in the population of Egypt, 5 years old and over, by nationality and sex: 1917-37

| Nationality and sex | Perce | ntage of illi | Reduction of | Average decennial | |
|------------------------|--------------|---------------|-----------------|-----------------------|------------------|
| | 1917 | 1927 | 1937 | illiteracy 1917-37 | rate of progress |
| Total population | | | | | % |
| Both sexes | 92.0 | 86.2 | 81.4 | 10.6 | $_6^{\%}$ |
| Male | 86.5 | 77.1 | 72.8 | 13.7 | 8 |
| Female | $97 \cdot 9$ | $95 \cdot 3$ | 90.0 | 7.9 | 4 |
| Egyptian | | | - | | - |
| Both sexes | 93.0 | 87.4 | 82.2 | 10.8 | 6 |
| Male | 87.3 | 78.2 | 73.6 | 13.7 | 8 |
| Female | 98.8 | 96.5 | 90.9 | 7.9 | 4 |
| Foreign | | | | | • |
| Both sexes | 41.9 | 25.5 | 19.1 | 22.8 | 32 |
| Male | 34.7 | 19.3 | 12.8 | 21.9 | 39 |
| Female | 48.9 | 31.7 | 25.1 | 23.8 | 28 |

ILLITERACY IN DIFFERENT AGE GROUPS

In general, the illiteracy rate is highest in the oldest age group, and becomes lower with each younger age group, thus showing the effects of improved educational opportunities as each new generation passes through the school-going ages. The reduction of illiteracy within each age group over a period of years shows the extent to which an earlier, more illiterate generation, is being replaced by a newer, less illiterate group of persons. Table 68 shows that this improvement is more evident among the male population than among the female.

When each cohort, or group of persons born within a specified period of time, is followed through successive census years, then the reduction of illiteracy tends to show how each particular group of persons becomes more literate, either from the benefits of school education or from other means. Thus Table 69 shows that male persons who were 10-19 years old in 1917 (cohort III m.) had

TABLE 68. Reduction of illiteracy in the population of Egypt, 10 years old and over, by sex and age groups: 1917-37

ting of the compared to the transfer in the contract of the first of the contract of the contr

| Sex and | Percent | tage of illi | teracy | Reduction of | Average decennial | |
|------------------------|--------------|--------------|--------------|-----------------------|----------------------|--|
| age group | 1917 | 1927 | 1937 | illiteracy 1917-37 | rate of progress | |
| Male | | | | | % | |
| 10 years and over | 84.8 | 76. I | 76.6 | 8.2 | | |
| 10-19 | 84.2 | 75.7 | 74.2 | 10.0 | <i>5</i> 6 | |
| 20-29 | 82.6 | 73.6 | 75.7 | 6.9 | 4 | |
| 30-39 | 84.7 | 75.3 | 76. 8 | 7.9 | 5 | |
| 40-4 9 | 84. 1 | 76.3 | 77.3 | 6.8 | 4 | |
| 50-59 | 85.0 | 76.9 | 78.8 | 6.2 | 4 | |
| 60 and over 1 | 91.0 | 83.1 | 83.3 | 7.7 | 4 | |
| Female | | | | | | |
| 10 years and over | 97.7 | 95.6 | 93.9 | 3.8 | 2 | |
| 10-19 | 9 6.3 | 92.0 | 87.4 | 8.9 | 5 | |
| 20-29 | 97.5 | 95.2 | 94.2 | 3.3 | 2 | |
| 30-39 | 98.1 | 96.6 | 96.4 | 1.7 | I | |
| 40-4 9 | 98.5 | 97.1 | 97.0 | 1.5 | 1 | |
| 50-59 | 98.8 | 97.6 | 97.5 | 1.3 | I | |
| 60 and over 1 | 99.4 | 98.4 | 98.4 | 1.0 | I | |
| Including age unknown. | | | | | | |

improved in literacy by 13 per cent during the next decade, and male persons who were 20-29 years old in 1917 (cohort IIm.) had improved at the rate of nine per cent during the decade.

Table 69. Reduction of illiteracy in the population of Egypt among selected cohorts: 1917-37

| | Cohort | Percentage of illiteracy | | Reduction of illiteracy 1 | | Decennial rate of progress | | |
|-----|---------------------------------------|--------------------------|------|------------------------------|---------|----------------------------------|----|---------|
| | Comort | 1917 | 1927 | 1937 | 1917-27 | 1927-37 | | 1927-37 |
| ī. | Persons born 1878-87 | | | | | | % | % |
| | Im. Male | 84.7 | 76.3 | | 8.4 | | 10 | |
| II. | If. Female Persons born 1888-97 | 98.1 | 97.1 | • | 1.0 | • | | • |
| | IIm. Male | 82.6 | 75.3 | 77.3 | 7.3 | (+) 2.0 | 9 | |
| | IIf. Female | 97.5 | 96.6 | 97.0 | 0.9 | (+) 0.4 | 1 | • |

¹ A plus sign in this column indicates increase of illiteracy.

FINLAND: 1900-30

| | Cohort | Percentage of illiteracy | | | Reduction of illiteracy 1 | | Decennial rate of progress | |
|-------|---|--------------------------|------------|-------------|---------------------------|---------|----------------------------------|---------|
| | | 1917 | 1927 | 1937 | 1917-27 | 1927-37 | | 1927-47 |
| III. | Persons born | | | | | | % | % |
| | IIIm. Male | 84.2 | 73.6 | 76.8 | 10.6 | (+) 3.2 | 13 | • |
| IV. | IIIf. Female Persons born 1908-17 | 96.3 | 95.2 | 96.4 | I.I | (+) 1.2 | I | • |
| | IVm. Male | • | 75.7 | 75.7 | • | | • | О |
| | IVf. Female | | 92.0 | 94.2 | | (+) 2.2 | • | • |
| ¹ A p | lus sign in this colu | ımn indica | ates incre | ease of ill | literacy. | | | |

Even those who were already long past school age (cohort Im.) showed similar improvement. In the case of female persons, however, there was very little progress (one per cent) during the same period of time. Between 1927 and 1937 each cohort seems to have increased in illiteracy, with the possible exception of cohort IVm. whose illiteracy percentage remained unchanged.

CONSISTENCY AND RELIABILITY OF DATA

Some relapse into illiteracy owing to lack of practice may indeed have occurred among the older age groups, but it is astonishing to find such a condition among young persons, 10-19 years old for instance, who must be presumed to have acquired their knowledge of reading and writing only recently. One may be led to suppose that there had been either serious errors in the census results, or else a marked change in the application of a criterion of literacy as between the 1927 and 1937 censuses.

FINLAND: 1900-30

CRITERION OF LITERACY

Census reports from Finland give data on the literacy of persons under 15 years of age and those 15 years old and over, classified in the following groups: persons having received more than primary education; other persons able to read and write; persons able to read only; persons unable either to read or to write.

For the purpose of the present study, the first two groups will

be considered as literate persons, and the last two groups as illiterate. However, an exceptionally large proportion of the population has been reported as able to read only. Further reference will be made to this fact at the end of this section.

तर्व कर प्रतासकार कर है। वर वस्त्रकार पुरस्कान का कामुख्यकार कांग्रेस का सामानित मुख्यकार का अधिकार किस का का व

The question on literacy has not been asked in the censuses taken after 1930.

ILLITERACY IN THE TOTAL POPULATION

Referring to the population 15 years old and over, the extent of illiteracy, defined as inability both to read and to write, has decreased from 61.2 per cent in 1900, to 15.9 per cent in 1930. This represents an average rate of progress of about 36 per cent per decade in the reduction of illiteracy during this period of 30 years.

TABLE 70. Number and percentage of illiterates in the population of Finland, 15 years old and over: 1910-30

| | Population 15 years old and over | | | | | | |
|----------------|----------------------------------|--|------------------------|--|--|--|--|
| Census year | Total No. of persons | Persons not able to read and write | Per cent illiterate | | | | |
| | | | % | | | | |
| 1900 | 1 775 626 | 1 087 216 | 61.2 | | | | |
| 1910 | 1 874 036 | 837 777 | 44.7 | | | | |
| 1920 | 2 057 227 | 619 367 | 30.1 | | | | |
| 1930 | 2 375 102 | 377 o85 | 15.9 | | | | |

ILLITERACY AMONG THE MALE AND FEMALE POPULATION

Comparative figures for the male and female populations 15 years old and over for the census years between 1900 and 1930 show an

Table 71. Reduction of illiteracy in the population of Finland, 15 years old and over, by sex: 1900-30

| Period and sex | Percentage o | f illiteracy | Reduction | Decennial |
|-------------------|------------------------|---------------------|--------------------------------|------------------|
| | At beginning of period | At end of period | in percentage of illiteracy | rate of progress |
| 1900-10 | | | | % |
| Both sexes | 61.2 | 44.7 | 16.5 | 27 |
| Male | 58.4 | 42.5 | 15.9 | 27 |
| Female | 64 | 46.8 | 17.2 | 27 |

| D. J. J | Percentage o | f illiteracy | Reduction | Decennial |
|-------------------|------------------------|---------------------|--------------------------------|------------------|
| Period and sex | At beginning of period | At end of period | in percentage of illiteracy | rate of progress |
| 1910-20 | | | | % |
| Both sexes | 44.7 | 30.1 | 14.6 | 33 |
| Male | 42.5 | 28.9 | 13.6 | 32 |
| Female | 46.8 | 31.2 | 15.6 | 33 |
| 1920-30 | | | | |
| Both sexes | 30.1 | 15.9 | 14.2 | 47 |
| Male | 28.9 | 15.1 | 13.8 | 48 |
| Female | 31.2 | 16.6 | 14.6 | 47 |
| 1900-1930 | , | | | |
| Both sexes | 61.2 | 15.9 | 45.3 | 36 |
| Male | 58.4 | 15.1 | 43.3 | 36 |
| Female | 64.0 | 16.6 | 47.4 | 36 |

equal rate of progress in the reduction of illiteracy for both sexes. The illiteracy rate for the female population, however, remains slightly above that for the male.

ILLITERACY AMONG THE URBAN AND RURAL POPULATIONS

While the difference in illiteracy rates has not been great between the male and female population, considerable difference does exist between the urban and rural population. For persons 15 years old and over, the percentage of illiteracy among the urban and rural population for all the census years between 1900 and 1930 are shown in Table 72. It is noteworthy that illiteracy in

TABLE 72. Reduction of illiteracy in the urban and rural population of Finland, 15 years old and over, by sex: 1900-30

| Area and sex | Perc | entage o | of illiter: | асу | Reduction in percentage of illiteracy 1900-30 | Average decennial rate of progress |
|-----------------|------|----------|-------------|------|--|---|
| | 1900 | 1910 | 1920 | 1930 | | |
| Urban | | | | | | % |
| Both sexes | 24.0 | 15.1 | 9.4 | 4.3 | 19.7 | |
| Male | 21.1 | 13.7 | 7.7 | 3.3 | 17.8 | 44 46 |
| Female | 26.9 | 16.2 | 10.6 | 5.0 | 21.9 | 43 |
| Rural | _ | | | | | |
| Both sexes | 67.0 | 50.3 | 34.5 | 19.0 | 48.o | 34 |
| Male | 63.8 | 47.4 | 32.9 | 17.9 | 45.9 | 35 |
| Female | 70.3 | 53.1 | 36.1 | 20.0 | 50.3 | 34 |

rural areas has been greatly reduced during the period of 30 years, though the relative rate of progress was still higher for urban areas. The proportion of the population of Finland living in rural areas, however, has decreased from 87.5 per cent in 1900 to 81.6 per cent in 1930.

ILLITERACY AMONG LINGUISTIC GROUPS

The two chief linguistic groups—Finnish and Swedish—made up over 99.5 per cent of the population of Finland in 1930, with the Finnish group alone accounting for 89.4 per cent. The other linguistic groups, with their reported percentages of population in 1930, are: Russian (0.2), German (0.1), Lapp and other (0.1). The amount and rate of reduction of illiteracy among these linguistic groups, in the census years 1900-30, are given in Table 73.

TABLE 73. Reduction of illiteracy in the population of Finland, 15 years old and over, by linguistic groups: 1900-30

| Linguistic group | Pero | entage | of illiter | racy | Reduction in percentage | Average decennial rate of progress |
|---------------------|------|--------|------------|------|--------------------------|---|
| | 1900 | 1910 | 1920 | 1930 | of illiteracy 1900-30 | |
| | | | | | | % |
| All groups | 61.2 | 44.7 | 30.1 | 15.9 | <i>45</i> ⋅3 | 36 |
| Finnish | 63.9 | 46.9 | 31.9 | 16.8 | 47.1 | 36 |
| Swedish | 45.9 | 29.5 | 16.8 | 8.6 | 37.3 | 43 |
| Russian | 16.4 | 22.7 | 16.o | 6.1 | 10.3 | 28 |
| German | 0.9 | 0.9 | 0.3 | 0.2 | 0.7 | 39 |
| Lapp | 69.2 | 55.5 | 26.8 | 34.4 | 34.8 | 21 |
| Other | 27.6 | 20.2 | 22.I | 10.7 | 16.9 | 27 |

LITERACY, SEMI-LITERACY AND ILLITERACY

As stated at the beginning of this section, the census reports of Finland classify separately persons having received more than primary education, other persons able to read and write, persons able to read only, and persons unable either to read or to write, In all the foregoing analyses, the proportion of persons who cannot both read and write has been taken as indicating the extent of illiteracy in the various population groups.

Figures on the illiterate population of Finland have frequently been published, but they refer only to those persons unable to read, thus leaving out the group of semi-literates, i.e. those who can read but not write. In order to show the numerical importance of this group in the population of Finland, Table 74 gives the number and percentage of persons in each of the categories by level of education or literacy, for the census years 1910, 1920 and 1930.

TABLE 74. Population of Finland, 15 years old and over, by sex and level of education or literacy: 1910-30

| Sex and | | | <u>-</u> | ulat | ion 1 | | old and o | ver | | | |
|--|-------|------|-------------|------|-------|------|-------------|-----|-----|------------|-------------|
| level of education | | 1910 | | | | 1920 | | | | 1930 | |
| or literacy | Nur | nber | Per cent | | Nun | ber | Per cent | | Num | ber | Per cent |
| Both sexes | | | | | | | | | | | |
| Total population Persons having more than primary | ı 874 | 036 | 100.0 | 2 | 057 | 227 | 100.0 | 2 | 375 | 102 | 100.0 |
| education Other persons able | 93 | 885 | 5.0 | | 109 | 163 | 5.3 | | 156 | 878 | 6.6 |
| to read and write | 942 | 374 | 50.3 | I | 328 | 697 | 64.6 | 1 | 841 | 139 | 77.5 |
| Able to read only Not able to | | 217 | 43.6 | | 598 | | 29.1 | | - | 228 | 15.0 |
| read or write | 21 | 560 | Ι.Ι | | 20 | 546 | 1.0 | | 2 I | 857 | 0.9 |
| Male | | | | | | | | | | | |
| Total population Persons having more than primary | 904 | 388 | 100.0 | | 978 | 644 | 100.0 | I | 139 | <i>375</i> | 100.0 |
| education Other persons able | 46 | 551 | 5.1 | | 53 | 220 | 5.4 | | 73 | 258 | 6.4 |
| to read and write | 473 | 387 | 52.3 | | 642 | 226 | 65.6 | | 804 | 290 | 78.5 |
| Able to read only Not able to read | | 367 | 41.3 | | • | 274 | 27.8 | | | 147 | 14.1 |
| or write | 11 | 083 | 1.2 | | 11 | 024 | 1.1 | | ΙI | 68o | 1.0 |
| Female | | | | | | | | | | | |
| Total population Persons having more than primary | 969 | 648 | 100.0 | I | 078 | 583 | 100.0 | I | 235 | 727 | 100.0 |
| education Other persons able | 47 | 334 | 4.9 | | 55 | 943 | 5.2 | | 83 | 620 | 6.8 |
| to read and write | 468 | 987 | 48.4 | | 686 | 471 | 63.6 | | 946 | 849 | 76.6 |
| Able to read only Not able to | | 850 | 45.7 | | | 647 | 30.3 | | | 081 | 15.8 |
| read or write | 10 | 477 | 1.1 | | 9 | 522 | 0.9 | | 10 | 177 | 0.8 |

It will be seen that the sums of the figures in the last two categories of Table 74 correspond to the percentages of illiteracy as given in Table 70 and 71. On the other hand, the number and percentage of illiterates given in the publications of the International Statistical Institute and of the United Nations, relating to the censuses of 1920 and 1930, correspond only to those given in the last category of Table 74, and do not in fact represent the proportion of the population who were not fully literate as defined in this study.

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FRANCE: 1901-46

CRITERION OF LITERACY AND METHOD OF TABULATION

The census schedule for the 1901 census had one question on literacy: 'Can you read and write?' In the subsequent censuses from 1911 to 1936 the question was amended to: 'Can you both read and write?' For the 1946 census the literacy question was divided into two parts: 'Can you read? (Yes or no); Can you write? (Yes or no).'

The tables on literacy given in the various census reports show that all persons not able both to read and to write, including those who can read only, are considered as illiterate. Thus the definition of illiteracy is consistent throughout the various censuses during this period.

The returns for 1901 and 1911 were tabulated for each sex, both by year of birth and by age, in five year age groups. For the censuses of 1921-36, however, literacy data are only available for three broad age groups: less than 5, 5-9, 10 and over, the last group including those of unknown age. The only tabulation so far available for the 1946 census gives the data for the age groups 5-9, 10-13, 14-59, 60 and over, and age unknown.

In addition, separate figures were given for the French and foreign population in the censuses of 1901 and 1911. From 1921 to 1936, the French population was subdivided into native and naturalized persons. Literacy data by nationality are not yet available from the 1946 census.

ILLITERACY IN THE TOTAL POPULATION

Considering only the population 10 years old and over, there were 1,115,268 persons who could not both read and write, according

to the 1946 census. This represents 3.4 per cent of the total population at this age level, excluding 1,378,623 persons unspecified for literacy. The percentage of illiteracy in the population 10 years old and over has decreased from 16.5 in 1901 to 3.4 in 1946, a reduction of 13.1 per cent illiteracy in a period of 45 years. In relative terms, the rate of progress between 1901 and 1946 averaged about 30 per cent per decade. In other words, the extent of illiteracy was being reduced every 10 years by about 30 per cent of the amount remaining at the beginning of each decade.

TABLE 75. Number and percentage of illiterates in the population of France, 10 years old and over: 1901-46

| | Population 10 years old and over | | | | | | |
|----------------|----------------------------------|---|------------------------|--|--|--|--|
| Census year | Total No. of persons 1 | Persons not able to read and write | Per cent illiterate | | | | |
| 1901 | 31 082 932 | 5 128 299 | 16.5 | | | | |
| 1911 | 31 810 124 | 3 792 566 | 11.9 | | | | |
| 1921 | 32 437 082 | 2 657 271 | 8.2 | | | | |
| 1926 | 33 120 971 | 2 026 222 | 6. ı | | | | |
| 1931 | 32 919 488 | 1 730 809 | 5.3 | | | | |
| 1936 | 33 486 667 | 1 326 469 | 4.0 | | | | |
| 1946 | 32 853 800 | 1 115 268 | 3.3 | | | | |

Excluding persons unspecified for literacy, whose numbers range from 579,916 in 1901 to 1,378,623 in 1946.

In this connexion, it must be observed that an unusually large number of persons have been returned at each census as unspecified for literacy. This number was 579,916 in 1901 and increased with each successive census until, in 1946, it actually exceeded the number of persons returned as illiterates! What the true percentage of illiteracy would be if all such persons had been classified by literacy can only be guessed, but it is obviously a point for consideration in interpreting the percentage shown in Table 75.

REDUCTION OF ILLITERACY, BY SEX

When each sex is considered separately, it is seen that, although the female population had a larger percentage of illiteracy in 1901 than the male, they came to be almost equal in 1946. Thus the

relative rate of progress among the female population (31 per cent reduction per decade) is higher than the male rate of progress (27 per cent per decade).

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TABLE 76. Reduction of illiteracy in the population of France, 10 years old and over, by period and sex: 1901-46

| Period | Percentage o | f illiteracy | Reduction in | Average |
|------------|---------------------------|---------------------|-----------------------------|----------------------------------|
| and sex | At beginning of period | At end of period | percentage of illiteracy | decennial rate of progress |
| 1901-11 | | | | % |
| Both sexes | 16.5 | 11.9 | 4.6 | 28 |
| Male | 13.5 | 9.7 | 3.8 | 28 |
| Female | 19.4 | 14.1 | 5.3 | 27 |
| 1911-21 | | • | 0 0 | , |
| Both sexes | 11.9 | 8.2 | $3 \cdot 7$ | 31 |
| Male | $9\cdot7$ | 6.9 | 2.8 | 29 |
| Female | 14.1 | $9.\overline{3}$ | 4.8 | 34 |
| 1921-31 | • | 0 0 | • | 31 |
| Both sexes | 8.2 | 5.3 | 2.9 | 35 |
| Male | 6.9 | 4.8 | 2.1 | 30 |
| Female | $9\cdot 3$ | 5.7 | 3.6 | 39 |
| 1931-46 | 0 0 | 0, | 3 | 33 |
| Both sexes | $5 \cdot 3$ | 3.4 | 1.9 | 26 |
| Male | 4.8 | 3.2 | ı.Ğ | 24 |
| Female | 5·7 | 3.6 | 2.1 | 26 |
| 1901-46 | 0, | J | | |
| Both sexes | 16.5 | 3.4 | 13.1 | 30 |
| Male | 13.5 | 3.2 | 10.3 | 27 |
| Female | 19.4 | 3.6 | 15.8 | 31 |

REDUCTION OF ILLITERACY AMONG CHILDREN 5-9 YEARS OLD

Since detailed data on literacy by age are not available for any census after 1911, it is not possible to analyse the reduction of illi-

Table 77. Percentage of illiteracy among children in France, 5-9 years old, by sex: 1901-46

| Sex | | | Perce | ntage of ill | iteracy | | |
|------------|------|------|-------|--------------|---------|------|------|
| Sex | 1901 | 1911 | 1921 | 1926 | 1931 | 1936 | 1946 |
| Both sexes | 30.9 | 29.0 | 22.7 | 31.1 | 20.0 | 20.2 | 16.3 |
| Male | 31.5 | 29.4 | 23.4 | 31.7 | 20.6 | 20.5 | 17.4 |
| Female | 30.3 | 28.5 | 22.0 | 30.5 | 19.3 | 19.8 | 15.3 |

teracy among each separate age group, except the group of children 5-9 years old. Table 77 shows the amount and rate of progress in the reduction of illiteracy among this age group as a whole and for each sex.

It may be observed that among young children of this age, the percentage of illiteracy is merely a measure of the proportion not attending school. The census reports for 1901 and 1911 noted the fact that, up to the ages of 20 and 25 respectively in those years, the girls were less illiterate than the boys, indicating that boys were attending school less assiduously, either because they were more useful to their parents at home or for other reasons. Whatever the reason, this condition seems to have persisted to the present time.¹

REDUCTION OF ILLITERACY, BY NATIONALITY

Throughout the period under consideration, the percentage of illiteracy among the foreign population of France has been notably higher than among the French, whether native or naturalized. The proportion of the total population 10 years old and over by these national groups at each census between 1901 and 1936 is given in Table 78, and the respective percentages of illiteracy among these groups are shown in Table 79.

TABLE 78. Distribution of the population of France, 10 years old and over, enumerated for literacy, by nationality: 1901-36

| | Pero | Percentage of population 10 years old and over | | | | | |
|----------------|--------------|--|-------------|---|--|--|--|
| Census year | | French | | Б. | | | |
| year | Native | | Naturalized | Foreign | | | |
| 1901 | | 97.2 | | 2.8 | | | |
| 1911 | | 96.9 | | 3.1 | | | |
| 1921 | $95 \cdot 4$ | | 0.7 | 3.9 | | | |
| 1926 | $93 \cdot 5$ | | 0.7 | 5.8 | | | |
| 1931 | 92.5 | | I.O | $\begin{array}{c} 5.8 \\ 6.5 \end{array}$ | | | |
| 1936 | 93.1 | | I.4 | 5.5 | | | |

It is seen that between 1921 and 1936, native French persons showed a uniform rate of progress of 44 per cent per decade and, the comparable rates of progress for naturalized and foreign persons were 17 and 14 respectively.

The census of 1946 also shows, for the age group 10-13, excluding some 170,000 unspecified cases, the following number and percentage of illiterates of each sex: boys (10-13), 15,979 illiterates (1.4 per cent); girls (10-13), 11,895 (illiterates 1.1 per cent).

TABLE 79. Reduction of illiteracy in the population of France, 10 years old and over, by sex and by nationality: 1901-36

| Sex and | | | Percentage of illiteracy | | | | | | Average decennial |
|----------------|---|------------|--------------------------|------|-------------|------|------|---|----------------------|
| nationality | | 1901 | 1911 | 1921 | 1926 | 1931 | 1936 | 4.2 4.5 2.6 3.5 3.7 1.8 3.1 5.0 5.2 | rate of progress |
| Both sexes | | | | | | | | | |
| All classes | | 16.5 | 11.9 | 8.2 | 6. <i>I</i> | 5.3 | 4.0 | 4.2 | 38 |
| French: Native | ì | - C | | 7.8 | 5.5 | 4.4 | 3.3 | 4.5 | 44 |
| Naturalized | } | 16.3 | 11.7 | 10.7 | 10.0 | 8.9 | 8.1 | 2.6 | 17 |
| Foreign | | 22.9 | 19.5 | 17.8 | 15.7 | 16.2 | 14.3 | 3.5 | 14 |
| Male | | | , 55 | • | ٠, | | 1.5 | 3 3 | • |
| All classes | | 13.5 | 9.7 | 6.9 | 5.3 | 4.8 | 3.5 | 3.4 | 36 |
| French: Native | 1 | 0 0 | υ, | 6.4 | 4.4 | 3.7 | 2.7 | ~ - | 44 |
| Naturalized | } | 13.2 | 9.4 | 8.7 | 8.8 | 7.4 | 6.9 | | 14 |
| Foreign | , | 21.7 | 18.5 | 17.6 | 15.6 | 16.2 | 14.5 | | 12 |
| Female | | , | | -, | -3 | | 1.3 | J | |
| All classes | | 19.4 | <i>14.1</i> | 9.3 | 6.9 | 5.7 | 4.3 | 5.0 | 40 |
| French: Native | 1 | <i>J</i> 1 | • | 9.0 | 6.4 | 5.1 | 3.8 | | 44 |
| Naturalized | { | 19.3 | 13.9 | 11.9 | 10.7 | 10.0 | 9.0 | 2.9 | 17 |
| Foreign | , | 24.3 | 20.8 | 18.1 | 15.8 | 16.3 | 13.9 | 4.2 | 16 |

GREECE: 1907-46

CRITERION OF LITERACY AND AVAILABILITY OF DATA

The census question on literacy relates to a person's ability both to read and write. Data are available only from the census reports for 1907, 1920 and 1928. Results of the last two censuses, taken in 1940 and 1951, have not yet been tabulated. Some figures on illiteracy in 1946 are taken from a report based on a population sample survey conducted by the Second Allied Mission for the Observation of Greek Elections.¹

ILLITERACY IN THE TOTAL POPULATION

According to the 1907 census there were 1,219,730 persons 8 years old and over who were unable to read and write. This

¹ 'A Population Sample for Greece', by Jessen, Blythe, Kempthorne and Deming, in the *Journal of the American Statistical Association*, Washington, D.C., Vol. 42, 1947, pp. 357-84.

was 59.7 per cent of the total population at that age level. This percentage was reduced to 45.7 in 1920, referring to the population within the same boundaries as at the 1907 census.

With the addition of a large population as a result of territorial changes after the Balkan wars and the first world war, the number of illiterates almost doubled, and the illiteracy rate was increased to 51.6 per cent. This was again reduced to 40.9 per cent in 1928, the latest year for which census data on illiteracy are available.

TABLE 80. Number and percentage of illiterates in the population of Greece, 8 years old and over: 1907-28

| | Pop | Population 8 years old and over | | | | | | |
|-------------------|--------------------------------------|--|--------------------------|--|--|--|--|--|
| Census year | Total No. of persons ¹ | Persons not able to read and write | Percentage illiterate | | | | | |
| 1907 | 2 042 077 | 1 219 730 | 59.7 | | | | | |
| 1920 ² | 2 316 442 | 1 058 615 | 45.7 | | | | | |
| 1920 ³ | 4 007 005 | 2 066 666 | 51.6 | | | | | |
| 1928 | 4 908 181 | 2 009 709 | 40.9 | | | | | |

¹ Excluding persons of literacy unspecified.

REDUCTION OF ILLITERACY, BY SEX

Illiteracy has been more prevalent among the female than among the male population throughout the period under consideration.

TABLE 81. Reduction of illiteracy in the population of Greece, 8 years old and over, by sex: 1907-28

| Period and sex | Percentage o | f illiteracy | Reduction in | Average |
|-------------------------------|------------------------|---------------------|-----------------------------|----------------------------------|
| | At beginning of period | At end of period | percentage of illiteracy | decennial rate of progress |
| 190 7-2 0 ¹ | | | | % |
| Both sexes | 59.7 | 45.7 | 14.0 | 19 |
| Male | $39 \cdot 7$ | 26.3 | 13.4 | 27 |
| Female | $79 \cdot 7$ | 64.8 | 14.9 | 15 |

Old boundaries.

² Old boundaries, i.e. excluding territories added to Greece after the Balkan wars and the first world war.

³ New boundaries, i.e. according to the Treaty of Lausanne.

| 70 - nl - 1 | Percentage of | of illiteracy | Reduction in | Average decennial |
|------------------------------|---------------------------|---------------------|-----------------------------|----------------------|
| Period and sex | At beginning of period | At end of period | percentage of illiteracy | rate of progress |
| 1920-281 | | | | % |
| Both sexes | 51.6 | 40.9 | 10.7 | 25 |
| Male | 34.0 | 23.5 | 10.5 | 37 |
| Female | 68.8 | 58.o | 8.or | 19 |
| 1907-28 | | - | | |
| Both sexes | (Average o | f rates for abo | ove two periods) | 22 |
| Male | | | | 32 |
| Female | | | | 17 |
| ¹ New boundaries. | | | | |

Also, the relative rate of progress has been higher for the males, who showed an average rate of progress of 32 per cent per decade, as against 17 per cent per decade for the females.

ILLITERACY IN DIFFERENT AGE GROUPS

Table 82 shows the reduction of illiteracy by sex and age groups for the period 1907-28. The most rapid progress is shown by the age groups between 8 and 14, both male and female, which

TABLE 82. Reduction of illiteracy in the population of Greece, 8 years old and over, by sex and age groups: 1907-28

| Sex and | P | 'ercentage | of illitera | Reduction of illiteracy | Average decennial rate of | |
|------------------|------|------------|-------------|-------------------------|---------------------------------|---------------------|
| age group | 1907 | 19201 | 19203 | 1928 | 1920-28 | progress 1920-28 |
| Male | | | *** | | % | % |
| 8 years and over | 39.7 | 26.3 | 34.0 | 23.5 | 10.5 | <i>37</i> |
| 8-9 | 29.3 | 28.4 | 35.9 | 16.4 | 19.5 | 62 |
| 10-14 | 26.5 | 16.9 | 25.8 | 10.5 | 15.3 | 67 |
| 15-19 | 34.6 | 16.6 | 24.4 | 18.4 | 6.0 | 30 |
| 20-24 | 38.3 | 15.4 | 20.2 | 16.3 | $3 \cdot 9$ | 24 |
| 25-29 | 39.2 | 18.1 | 26.1 | 15.8 | 10.3 | 47 |
| 30-39 | 41.4 | 26.0 | 33.8 | 20.7 | 13.1 | 46 |
| 40-49 | 46.6 | 32.7 | 40.4 | 29.9 | 10.5 | 31 |
| 50-59 | 50.3 | 39.2 | 47.0 | 35.7 | 11.3 | 29 |
| 60 and over | 56.1 | 47.3 | 55.2 | 47.5 | $7 \cdot 7$ | 17 |

¹ Old boundaries.

New boundaries.

| Sex and | I | Percentage | ot Eliter | Reduction of illiteracy | Average decennial rate of | | |
|--|------|--------------|--------------|-------------------------|---------------------------------|---------------------|--|
| age group | 1907 | 19201 | 19202 | 1928 | 1920-28 | progress 1920-28 | |
| Female | | | | | % | % | |
| 8 years and over | 79.7 | 64.8 | 68.8 | 58.o | 10.8 | 19 | |
| 8-9 | 67.7 | 50.4 | 54.1 | 27.2 | 26.9 | 58 | |
| 10-14 | 68.3 | 46. ı | 50.2 | 28.3 | 21.9 | 51 | |
| 15-19 | 73.o | $49 \cdot 3$ | $54 \cdot 3$ | 42.2 | 12.1 | 27 | |
| 20-24 | 76.6 | 56. ı | 59.6 | 47.2 | 12.4 | 25 | |
| 25-29 | 80.8 | 63.0 | 67.3 | $54 \cdot 9$ | 12.4 | 22 | |
| 30-39 | 84.2 | 71.0 | 75.6 | 64.8 | 10.8 | 81 | |
| 40-49 | 87.8 | 78.3 | 81.6 | $74 \cdot 4$ | 7.2 | 11 | |
| 50 - 59 | 89.7 | 82.4 | 85.5 | 79.8 | 5 · 7 | 8 | |
| 60 and over | 92.6 | 86.2 | 89.3 | 86.3 | 3.0 | 4 | |
| Old boundaries. New boundaries. | | | | | | | |

reflects the increased educational opportunities for the children. Both in absolute reduction of the illiteracy rate and in their relative rate of progress, the male groups aged 30 and above did much better than female groups at the same age level. These persons passed their school-going ages near the beginning of the century; evidently the girls at that time did not take as much advantage of the greater opportunities for education as the boys.

ILLITERACY IN URBAN AND RURAL AREAS

If we consider as urban areas all the municipalities and communes of 10,000 or more inhabitants, the illiteracy rate for those areas is

Table 83. Reduction of illiteracy in the population of Greece, 8 years old and over, by urban and rural areas and by sex: 1920-28

| Area | Percentage | of illiteracy | Reduction in | Average decennial | |
|-----------------------------------|------------------|------------------|-----------------------------|----------------------|--|
| and sex | 1920 | 1928 | percentage of illiteracy | rate of progress | |
| Urban areas ¹ | - | | | % | |
| Both sexes | 35.1 | 29.0 | 6.1 | 21 | |
| \mathbf{Male} | 23.9 | 17.2 | 6.7 | 34 | |
| Female | 48.5 | 41.0 | 7.5 | 19 | |
| Rural areas ² | | _ | | | |
| Both sexes | 58.2 | 46.9 | 11.3 | 24 | |
| Male | 38.7 | 26.7 | 12.0 | 37 | |
| Female | 76.0 | 66.4 | 9.6 | 16 | |
| ¹ Municipalities and o | communes of 10,0 | ooo or more inha | bitants. | | |

² Rest of the country.

much lower than for the rest of the country. However, rather more progress is noted among the rural population than among the urban between 1920 and 1928, thus lessening the gap between these areas as far as literacy of the population is concerned.

 $x_1 \in \mathcal{A}$, $x_2 \in \mathcal{A}$, $x_3 \in \mathcal{A}$, which is a supposed of the state of t

ILLITERACY IN GREECE, 1946

Since census data on literacy are not available after 1928, it would be useful to examine some figures based on a sample population survey conducted in 1946 by the Second Allied Mission for the Observation of Greek Elections. One of the population characteristics included in the survey was the ability to read and write. The resulting figures, estimated for the total population, are given in Table 84. It must be remembered that they are subject to sampling errors, and provide only rough comparisons with the census data for earlier years.

TABLE 84. Estimated number and percentage of illiterates in the population of Greece, 8 years old and over, by sex and age groups: 19461

| Sex and age group | Total No. of persons | Persons not able to read and write | Percentage illiterate | |
|-------------------|----------------------|--|--------------------------|--|
| Male | | | | |
| 8 years and over | 3 042 000 | 472 000 | 15.5 | |
| 8-13 | 505 000 | 95 000 | 18.8 | |
| 14-19 | 479 000 | 47 000 | 9.8 | |
| 20-39 | 1 056 000 | 90 000 | 8.5 | |
| 40 and over | 1 002 000 | 240 000 | 24.0 | |
| Female | | - | _ | |
| 8 years and over | 3 177 000 | I 277 000 | 40.2 | |
| 8-13 | 479 000 | 115 000 | 24.0 | |
| 14-19 | 521 000 | 89 000 | 17.1 | |
| 20-39 | 1 149 000 | 358 000 | 31.2 | |
| 40 and over | 1 028 000 | 715 000 | 69.6 | |

Based on a sample population survey conducted by the Second Allied Mission for the Observation of Greek Elections.

In order to assess the progress of literacy in Greece between 1928 and 1946, let us assume that the relative rates of progress found for the period 1920-28 were continued till 1946. Then the percentage of illiteracy for male persons 8 years and over could be estimated at 10.2 in 1946, and for female persons at 39.5. This estimate of the female illiteracy in 1946 agrees fairly well with

the estimate based on the sample survey, but the male illiteracy estimated by this method is much lower than that based on the sample survey.

TABLE 85. Estimated percentage of illiteracy in the population of Greece, 8 years old and over, 1946, based on relative rate of progress, 1920-28, by sex and age groups

| | Average decennial | Percentage of illiteracy | | | | | | |
|-------------------|----------------------|--------------------------|-----------------------------|--------------------------|--|--|--|--|
| Sex and age group | rate of progress | At census of 1928 | Estimated reduction 1928-46 | Estimated for 1946 | | | | |
| | % | | | | | | | |
| Male | , - | | | | | | | |
| 8 years and over | 37 | 23.5 | 13.3 | 10.2 | | | | |
| 8-14 | 66 | 12.1 | 10.4 | 1.7 | | | | |
| 15-19 | 30 | 18.4 | 8.7 | 9.7 | | | | |
| 20-39 | 42 | 18.0 | 11.2 | 6.8 | | | | |
| 40 and over | 25 | 37.3 | 15.0 | 22.3 | | | | |
| Female | | | • | _ | | | | |
| 8 years and over | 19 | 58.o | 18.5 | 39.5 | | | | |
| 8-14 | 53 | 28.0 | 20.9 | 7.1 | | | | |
| 15-19 | 27 | 42.2 | 18.3 | 23.9 | | | | |
| 20-39 | 21 | 56.7 | 20.0 | 36.7 | | | | |
| 40 and over | 8 | 79.9 | 10.8 | 69.1 | | | | |

The greatest discrepancy between the estimates given in Table 85 and those in Table 84, is for the age groups 8-14 in Table 85 and 8-13 in Table 84. Even though the age groups are not identical, the difference between the two sets of estimated percentages for either sex is too great to be explained merely by sampling errors in the population survey. There was most likely a real setback in the progress of literacy on the part of the young children of school age, due to the effects of the recent war.

HONDURAS: 1926-45

ILLITERACY IN THE TOTAL POPULATION

The census of 1926 reported a total of 518,240 persons unable to read, this being 73.9 per cent of the total population of all ages. Beginning in 1930, the census tabulations permit the calculation

of percentages of illiteracy, defined as inability either to read or to write, for the population 7 years old and over, or 15 years old and over. Tables 86 and 87 give the number and percentage of illiterates at these age levels for each of the census years 1930, 1935, 1940 and 1945.

TABLE 86. Number and percentage of illiterates in the population of Honduras, 7 years old and over: 1930-45

| | Po | | |
|----------------|----------------------------|--|--------------------------|
| Census year | Total No. of persons | Persons not able to read and write | Percentage illiterate |
| 1930 | 1 668 649 | 467 005 | 69.8 |
| 1935 | 770 684 | ² 537 902 | 69.8 |
| 1940 | 860 409 | 58o 861 | 67.5 |
| 1945 | 937 748 | 622 049 | 66.3 |

¹ Excluding 849 persons of literacy unspecified.

TABLE 87. Number and percentage of illiterates in the population of Honduras, 15 years old and over: 1930-45

| | Pop | Population 15 years old and over | | | | | | | |
|----------------|----------------------------|--|--------------------------|--|--|--|--|--|--|
| Census year | Total No. of persons | Persons not able to read and write | Percentage illiterate | | | | | | |
| 1930 | 492 046 | 326 999 | 66.6 | | | | | | |
| 1935 | 585 419 | 1394 812 | 67.4 | | | | | | |
| 1940 | 636 143 | 415 309 | 65.3 | | | | | | |
| 1945 | 699 421 | 445 586 | 63.7 | | | | | | |

rersons not able to write.

Among the population 7 years old and over, the percentage of illiteracy decreased from 69.8 in 1930 to 66.3 in 1945, showing an average rate of progress of about three per cent in a decade. The same relative rate of progress is shown if only the population 15 years old and over is considered. On the other hand, it will be observed that the number of illiterate persons has been constantly increasing, which indicates that the opportunities of rudimentary education have not been enough to meet the demands of an increasing population.

² Persons not able to write.

REDUCTION OF ILLITERACY, BY SEX

The illiteracy rate for the female population is somewhat higher than for the male, but the female population had a slightly higher rate of progress during the period 1930-45, as shown in Table 88.

TABLE 88. Reduction of illiteracy in the population of Honduras, 7 years old and over, by sex: 1930-45

| Sex | 3 | Percentage | of illiteracy | Reduction of | Average decennial | |
|------------|------|------------|---------------|--------------|-----------------------|------------------|
| | 1930 | 1935 | 1940 | 1945 | illiteracy 1930-45 | rate of progress |
| | | | | | % | % |
| Both sexes | 69.8 | 69.8 | 67.5 | 66.3 | 3.5 | 3 . |
| Male | 66.7 | 67. 1 | 66.ı | 64.5 | 2.2 | 2 |
| Female | 72.9 | 72.5 | 69.0 | 68.2 | 4.7 | 4 |

ILLITERACY IN DIFFERENT AGE GROUPS

Tabulations on literacy in the census reports since 1930 give data on the following broad age groups: under 7, 7-14, 15-19, 20-24,

TABLE 89. Reduction of illiteracy in the population of Honduras, by sex and age groups: 1930-45

| Sex and | P | ercentage | Reduction of | Average decennial | | |
|-------------|-------|--------------|--------------|----------------------|------------------------------------|------------------|
| age group | 1930 | 19351 | 1940 | 1945 | illiteracy 1930-45 ² | rate of progress |
| Male | | | | | % | % |
| 7 and over | 66.7 | 67. I | 66. ı | 64.5 | 2.2 | 2 |
| 7-14 | 78.5 | 77.0 | $73 \cdot 7$ | $73 \cdot 4$ | 5.1 | 4 |
| 15-19 | 69. ı | 68.ı | 63.1 | 64.4 | 4.7 | 5 |
| 20-24 | 61.1 | 64.3 | 57.2 | 61.6 | + 0.5 | • |
| 25 and over | 6o. 1 | 62.2 | 64.7 | 60.2 | + o.1 | |
| Unknown | 87.5 | $75 \cdot 3$ | 95.1 | • | • | • |
| Female | | | | | | |
| 7 and over | 72.9 | 72.5 | 69.0 | 68.2 | 4.5 | 4 |
| 7-14 | 79.3 | $77 \cdot 5$ | 73.9 | 74.7 | 4.6 | 4 |
| 15-19 | 70.4 | 71.2 | 62.7 | 61.9 | 8.5 | 4 8 |
| 20-24 | 69.7 | 69.2 | 60.5 | 61.1 | 8.6 | 8 |
| 25 and over | 71.0 | 71.3 | 70.2 | 68.7 | 2.3 | 2 |
| Unknown | 88.2 | 73.1 | 96.2 | • | • | |
| | | | | | | |

¹ Referring to persons not able to write.

A plus sign in this column indicates increase of illiteracy.

25 and over, and age unknown. Percentages of illiteracy in these age groups, excluding the first, for each of the census years are shown in Table 89.

这一点,她就那么大笑的人,这点点点,只是她就看起我的人员就都是这个女人的人。一定这么是她只要的人

It may be observed that the lowest percentage of illiteracy is found among male persons 25 years old and over, and among female persons 20-24 years old. The percentage of illiteracy among children 7-14 years old has been consistently higher than for any of the older age groups. This seems to indicate a lack of adequate educational opportunities for this crucial age group, and this is borne out by the fact that the 1945 census report also shows that among children 7-15 years old, 74.4 per cent of the boys, and 76.2 per cent of the girls, were not attending school.

HUNGARY: 1900-41

HISTORICAL NOTE

Many changes have occurred in the territorial boundaries of Hungary since the beginning of the century. As far as the census statistics on literacy are concerned, it is possible to present two series of figures—one referring to the territory of the former Kingdom of Hungary at the 1900 and 1910 censuses, from which figures relating to the population of Croatia and Slavonia have been subtracted; the other referring to the territory of Hungary according to the Trianon Treaty, which approximates to the territorial extent of Hungary at the present time.

CRITERION OF LITERACY

The census reports during the whole period classify the population by literacy according to the following categories, with some variations from one census to another: persons having completed specified levels of schooling (variously given); other persons able to read and write; persons able to read only; persons unable to read or write; persons of literacy unspecified.

In the present analysis, all persons reported as unable either to read or write have been considered as illiterate, and the percentage of illiteracy has been computed, whenever possible, on the total population excluding persons of literacy unspecified.

All children under 6 years of age have been excluded, but per-

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sons of unknown age have been included, if their literacy status is given.

ILLITERACY IN THE TOTAL POPULATION

According to the above definitions, the number of illiterate persons 6 years old and over in the old territory of Hungary at the census of 1900 was about five and a half million, this being 38.6 per cent of the total population at that age level. At the census of 1910, the number of illiterates had been reduced to 4.8 million, and the illiteracy rate had gone down to 31.3 per cent. This was a reduction of almost one-fifth of the initial illiteracy rate in the course of a decade.

At the 1920 census, with the loss of large areas and more than half of the population, the illiteracy rate had been further reduced to 15.2 per cent among persons 6 years old and over. This is to be compared with an illiteracy rate of 19.7 per cent in 1910 referring to the same territory as the 1920 census. Thus the rate of progress in the second decennial period was about 23 per cent.

Further progress was reported at the 1930 and 1941 censuses, bringing the illiteracy rate down to 7.4 per cent in 1941. The average decennial rate of progress for the whole period 1900-41 is computed at 26 per cent, taking into consideration the changes in the size of the population involved in the changing of territorial boundaries.

TABLE 90. Number and percentage of illiterates in the population of Hungary, 6 years old and over: 1900-41

| | Popul | ation 6 years old and over | |
|-------------------|------------------------|--|--------------------------|
| Census year | • Total No. of persons | Persons not able to read and write | Percentage illiterate |
| 19001 | ²14 152 994 | 5 462 674 | 38.6 |
| 19101 | 15 461 648 | 4 840 228 | 31.3 |
| 19203 | 7 189 272 | 1 090 715 | 15.2 |
| 1930 ³ | 7 621 825 | 735 076 | 9.6 |
| 19418 | ⁴ 8 371 796 | 623 605 | 7.4 |

¹ Territory of former Kingdom of Hungary, less Croatia and Slavonia.

Excluding 2,839 persons of literacy unspecified.

³ Territory of Hungary by the Trianon Treaty. The percentage of illiteracy for the same territory in 1910 was 19.7, according to the Annuaire Statistique Hongrois, 1939.

⁴ Excluding 12,172 persons of literacy unspecified.

TABLE QI. Reduction of illiteracy in the population of Hungary, 6 years old and over, by decennial periods: 1900-41

· "我们是我们的我们,我们就没有看到了,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就没有 "我们是我们的人,我们就没有一个人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人

| | Percentage of | of illiteracy | Reduction in | Decennial rate of progress | |
|----------|---------------------------|---------------------|-----------------------------|----------------------------------|--|
| Period | At beginning of period | At end of period | percentage of illiteracy | | |
| | | | | % | |
| 1900-101 | 38.6 | 31.3 | $7 \cdot 3$ | 19 | |
| 1910-202 | 19.7 | 15.2 | $4\cdot 5$ | 23 | |
| 1920-302 | 15.2 | 9.6 | 5.6 | 37 | |
| 1930-412 | 9.6 | $7 \cdot 4$ | 2.2 | 3 ₂₃ | |
| 1900-41 | (average 'd | ecennial rate o | f progress) | 26 | |

¹ Territory of former Kingdom of Hungary, less Croatia and Slavonia.

REDUCTION OF ILLITERACY, BY SEX

The percentage of illiteracy has been consistently higher among the female population, but the gap between the two sexes has been diminishing. While in 1900, female illiteracy was 44.6 per cent compared with a male illiteracy rate of 32.5 per cent, the difference between the illiteracy percentages of the male and female populations in 1941 was only two per cent. During the period 1920-41, the relative rate of progress was about 30 per cent per decade for each sex.

TABLE 92. Reduction of illiteracy in the population of Hungary, 6 years old and over, by sex: 1900-41

| Sex | | ntage of | | ercentage o | of | Reduction in percentage of illiteracy | Average decennial rate of |
|------------------------------|----------------------|----------------------|----------------------|-------------|-------------------|---|---------------------------------|
| | 1900 | 1910 | 1920 | 1930 | 1941 | 1920-41 | progress |
| Both sexes Male Female | 38.6 32.5 44.6 | 31.3 26.6 35.9 | 15.2 13.1 17.1 | 9.6 7·9 | 7·4 6.4 8.4 | 7.8 6.7 8.7 | % 30 30 30 |

¹ For 1900 and 1910: territory of the former Kingdom of Hungary, less Croatia and Slo-

² Territory of Hungary by the Trianon Treaty.

³ The period between the two censuses, from 31 December 1930 to 31 January 1941, is treated as a decade for this computation.

For 1920-41: territory of Hungary by the Trianon Treaty.

ILLITERACY BY LINGUISTIC GROUPS

At the 1920 and 1930 censuses, the total population 6 years old and over was distributed by mother tongue in the following proportions:

| | | | | | | | 1920 | 1930 |
|----------|----|--|--|--|--|--|------|------|
| | | | | | | | % | % |
| Hungaria | n. | | | | | | 89.4 | 92.0 |
| German | | | | | | | 7.0 | 5.6 |
| Slovak | | | | | | | г.8 | 1.2 |
| Other | | | | | | | в. г | 1.2 |

The small differences in the proportional distribution of the population by these major linguistic groups do not invalidate a comparison of their illiteracy rates as given in Table 93. Table 93 shows the German-speaking group to have the lowest rate of illiteracy, followed by the Hungarian-speaking group, then the Slovak-speaking group, and lastly all other persons. Within each group the female illiteracy rate was higher than the male.

Relative to their respective literacy levels in 1920, the rate of progress in the reduction of illiteracy between 1920 and 1930 was nearly the same for the three major linguistic groups—about 40 per cent among males and about 33 per cent among females.

Table 93. Reduction of illiteracy in the population of Hungary, 6 years old and over, by mother tongue and sex: 1920-30

| Mother tongue and sex | Percentage | of illiteracy | Reduction in percentage of illiteracy | Decennial rate of progress |
|--------------------------|------------|---------------|---------------------------------------|----------------------------------|
| | 1920 | 1930 | | |
| All groups | | | | ~ % |
| Male | 13.1 | $7 \cdot 9$ | 5.2 | 40 |
| Female | 17.1 | 11.3 | 5.8 | 34 |
| Hungarian | • | | ~ | • |
| Male | 13.1 | 7.9 | 5.2 | 40 |
| Female | . 17.2 | 11.3 | 5.9 | . 34 |
| German | • | • | ~ ~ | - |
| Male | 8.6 | 5.2 | 3.4 | 40 |
| Female | 8.11 | 7.9 | 3.9 | 33 |
| Slovak | | | * - | - |
| Male | 14.4 | 8.0 | 6.4 | 44 |
| Female | 19.9 | 13.3 | $6.\overline{6}$ | 33 |
| Other ¹ | | | | |
| Male | 26.7 | 21.4 | $5 \cdot 3$ | 20 |
| Female | 34.5 | 27.3 | 7.2 | 21 |

¹ Including Rumanian, Ruthenian, Croatian, Serbian and language unspecified.

ILLITERACY IN DIFFERENT AGE GROUPS

Table 94 shows the reduction of illiteracy by sex and age groups between the census years 1920 and 1941. As is to be expected, the lowest percentages of illiteracy are found in the age groups between 12 and 29. The average decennial rate of progress has been remarkably high among the 12-14 age group (male, 53 per cent; female, 48 per cent), and the 15-19 age group (male, 48 per cent; female, 43 per cent).

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TABLE 94. Reduction of illiteracy in the population of Hungary, 6 years old and over, by sex and age groups: 1920-41

| Sex and | Percentage of illiteracy | | | Reduction in percentage | Average decennial |
|-------------------|--------------------------|-------------|------|--------------------------|----------------------|
| age group | 1920 | 1930 | 1941 | of illiteracy 1920-41 | rate of progress |
| Male | | | | | % |
| 6 years and over1 | 13.1 | 7.9 | 6.4 | 6.7 | 30 |
| 6-1 I | 27.3 | 9.1 | 18.2 | 9.1 | 18 |
| 12-14 | $8.\tilde{6}$ | 2.5 | 1.9 | 6.7 | 53 |
| 15-19 | 6.3 | $4 \cdot 3$ | 1.7 | 4.6 | 48 |
| 20-29 | 4.8 | 5.5 | 2.4 | 2.4 | 29 |
| 30-39 | 6.3 | 4.7 | 4.5 | 1.8 | 15 |
| 40-49 | 10.0 | 6.3 | 4. I | 5.9 | 36 |
| 50-59 | 17.0 | 10.2 | 5.9 | 11.1 | 41 |
| 60 and over | 26.2 | 20.8 | 13.3 | 12.9 | 29 |
| Unknown | $52 \cdot 7$ | 47.6 | 35.8 | • | • |
| Female | | | | | |
| 6 years and over1 | 17.1 | II.3 | 8.4 | 8.7 | .30 |
| 6-11 | 27·4 | 9.5 | 18.0 | 9.4 | 19 |
| 12-14 | 7.1 | 2.5 | 1.9 | 5.2 | 48 |
| 15-19 | 5.3 | 4.0 | 1.7 | 3.6 | 43 |
| 20-29 | 6.2 | 6.0 | 2.8 | $3 \cdot 4$ | 33 |
| 30-39 | 10.4 | 6.7 | 5.3 | 5.1 | 29 |
| 40-49 | 17.6 | 10.9 | 6.0 | 11.6 | 42 |
| 50-59 | 29.1 | 17.9 | 10.2 | 18.9 | 41 |
| 60 and over | 43.8 | 34.7 | 21.5 | 22.3 | 30 |
| Unknown | 39.6 | 49.7 | 45.9 | | |

The relatively high illiteracy rate among children 6-11 years old is mainly due to the large number of boys and girls 6-9 years old who have not begun their schooling, and who have not yet had therefore an opportunity to learn reading and writing.

This is borne out more clearly in Table 95, which gives, for 1941, the number of boys and girls by the highest grade of school completed and ability to read and write. It is thus seen that the percentage of illiteracy in the age group 10-11 was only 2.1 for either sex, but that most of the children reported unable to read and write were found to be 6-9 years old and not to have started to attend school.

TABLE 95. Number of boys and girls in Hungary, 6-11 years old, by highest level of education, and percentage of illiteracy: 1941

| | Ве | oys | Girls | | |
|-------------------------------|---------------------|-----------------------|---------------------|-----------------------|--|
| Level of education | 6-9 years old | 10-11 years old | 6-9 years old | 10-11 years old | |
| Total number 1 | 320 581 | 171 602 | 314 032 | 168 214 | |
| 1st year secondary | | 7 463 | | 7 458 | |
| 5th year elementary | | 27 748 | | 228 982 | |
| 4th year elementary | | 66 348 | | 66 305 | |
| 3rd year elementary | 38 218 | 45 891 | 39 048 | 44 698 | |
| 2nd year elementary | 72 255 | 15 504 | 72 439 | 13 292 | |
| 1st year elementary | 81 370 | 4 473 | 87 497 | 3 461 | |
| Others able to read and write | 3 42 74I | 620 | 340 600 | 501 | |
| Not able to read and write | 85 997 | 3 555 | 83 448 | 3 517 | |
| Percentage illiterate | 26 8 | 2 I | 26 6 | 2 I | |

¹ Excluding 75 boys and 67 girls whose level of education is unknown.

INDIA: 1901-41

ILLITERACY IN THE TOTAL POPULATION

In 1931, the latest year for which literacy figures are available for the whole of India, there were some 219 million persons 10 years old and over who could neither read nor write, being 90.9 per cent of the total population at that age level. These figures refer, of course, to pre-partition India, which includes present-day Pakistan, but does not include Burma.

Comparative figures on the illiterate population of India from the census reports of 1901-31 are given in Table 96, from which

² Including one girl who has completed the 6th year elementary.

³ Including children 6 and 7 years old attending 1st form of elementary school at time of census.

it can be seen that the percentage of illiteracy in the total population has steadily decreased from 93.8 in 1901 to 90.9 in 1931. This represents an average decennial rate of progress of about one per cent. Yet, owing to the increase in the total population, the actual number of illiterates has constantly been increasing and stood in 1931 at almost 25 million more than in 1901.

TABLE 96. Number and percentage of illiterates in the population of India, 10 years old and over: 1901-31

| Census | Pop | ulation 10 years old and over | |
|--------|--------------------------------------|---------------------------------------|--------------------------|
| year | Total No. of persons ¹ | Persons not able to read and write | Percentage illiterate |
| 1901 | 207 070 426 | 194 160 614 | 93.8 |
| 1911 | 218 189 879 | 202 885 717 | 93.0 |
| 1921 | 219 751 721 | 201 603 832 | 91.7 |
| 1931 | 240 716 606 | 218 754 042 | 90.9 |

¹ Excluding those not enumerated on literacy, who numbered approximately 800,000 in 1901; 1,700,000 in 1911; 2,800,000 in 1921; 3,000,000 in 1931.

ILLITERACY AMONG THE MALE AND FEMALE POPULATION

There is considerably more illiteracy among the female population. The rate of progress is also relatively lower for the female population, as shown in Table 97.

TABLE 97. Reduction of illiteracy in the population of India, 10 years old and over, by sex: 1901-31

| Percents | | Percentag | ge of illiteracy | | Reduction of | Average decennial |
|----------------|--------------------------|--------------|------------------|-----------------------|------------------|----------------------|
| Sex 1901 | 1911 | 1921 | 1931 | illiteracy 1901-31 | rate of progress | |
| Both sexes | 93.8 | 93.0 | 91.7 | 90.9 | % 2.9 | % 1.0 |
| Male Female | 88. ₅ 99.3 | 87.4 98.9 | 85.8 98.2 | $\frac{8}{97.6}$ | 3.8 1.7 | 1.4 0.6 |

ILLITERACY IN DIFFERENT AGE GROUPS

The census reports tabulated the population on literacy in five broad age groups: 0-9, 10-14, 15-19, 20 and over, and age unknown. Leaving out the population less than 10 years old, relatively more progress was made over the 30. year period in the 15-19 age group, particularly among the male population. This would seem to reflect the results of the extension of education among children during those decades. On the other hand, the reduction in illiteracy among the adult population 20 years old and over may be due entirely to the replacement of some of the older, more illiterate generation, by persons of the younger, less illiterate population.

TABLE 98. Reduction of illiteracy in the population of India, 10 years old and over, by sex and broad age groups: 1901-31

| Sex and age group | Perc | Percentage of illiteracy | | | Reduction in percentage of | Average decennial |
|-------------------|------|--------------------------|-------|-------|-------------------------------|----------------------|
| | 1901 | 1911 | 1921 | 1931 | illiteracy 1901-1931 | rate of progress |
| Male | | | | | | % |
| | | | | • | | |
| 10 years and over | 88.5 | 87.4 | 85.8 | 84.7 | 3.8 | $I \cdot 4$ |
| 10-14 | 92.3 | 91.3 | 90.0 | 90.2 | 2.1 | 0.8 |
| 15-19 | 88.ı | 87.0 | 84.6 | 82.4 | 5.7 | 2.2 |
| 20 and over | 87.6 | 86.6 | 84.9 | 83.7 | 3.9 | 1.5 |
| Unknown | 97.9 | 97.7 | 97.3 | 98.2 | • | |
| Female | J, J | <i>3, ,</i> | 37 0 | J | | |
| 10 years and over | 99.3 | 98.9 | 98.2 | 97.6 | 1.7 | 0.6 |
| 10-14 | 99.2 | 98.6 | 97.6 | 97.2 | 2.0 | 0.7 |
| . 15-19 | 98.9 | 98.3 | 97.1 | 96.4 | 2.5 | 0.9 |
| 20 and over | 99.4 | 99.1 | 98.4 | 97.9 | 1.5 | 0.5 |
| Unknown | 99.5 | 100.0 | 100.0 | 100.0 | • | • |

LITERACY IN ENGLISH

Separate tabulations are given in the census reports on persons able to read and to write in the English language. Among persons 10 years old and over, literacy in English increased from 0.5 per cent in 1901 to 1.4 per cent in 1931. Among male persons at this age level the percentage increased from 0.9 to 2.4 during this period; among female persons from 0.1 to 0.3 per cent. The percentage among the male population is considerably higher

than among the female for each of the age groups shown in Table 99.

FFETENSAM SPACES AND EFTER TENEDOME PROGRAMMENT OF THE PROGRAMMENT AND A TOTAL PROGRAMMENT OF A LANGUAGE PROGRAMMENT

TABLE 99. Literacy in the English language among the population of India 10 years old and over, by sex and broad age groups: 1901-31

| Sex and age group | Percentage of illiteracy in English | | | | | |
|--------------------------------|--|------|------|------|--|--|
| | 1901 | 1911 | 1921 | 1931 | | |
| Both sexes | | | | | | |
| 10 years and over1 | 0.5 | 0.7 | I.I | I.4 | | |
| 10-14 | 0.4 | 0.5 | 0.8 | o.8 | | |
| 15-19 | 0.7 | 1.0 | 1.7 | 1.9 | | |
| 20 and over ¹ | 0.5 | 0.7 | 1.0 | 1.4 | | |
| Male | | · | | | | |
| 10 years and over ¹ | o.g | 1.3 | I.9 | 2.4 | | |
| 10-14 | 0.6 | 0.8 | 1.2 | 1.3 | | |
| 15-19 | 1.3 | г.8 | 3.0 | 3.4 | | |
| 20 and over ¹ | 0.9 | 1.3 | 1.9 | 2.5 | | |
| Female | | | | _ | | |
| 10 years and over | O. I | O. I | 0.2 | 0.3 | | |
| 10-14 | 0.1 | O.I | 0.2 | 0.3 | | |
| 15-19 | 0.1 | 0.2 | 0.3 | 0.5 | | |
| 20 and over ¹ | О. І | 1.0 | 0.2 | 0.3 | | |

PROGRESS OF LITERACY IN CERTAIN STATES

Results of the 1941 census are not available for the whole of India. Partial results given for a number of States show a general reduction of illiteracy between 1931 and 1941, ranging from one per cent in some States to more than 12 per cent in others. It is not possible, however, to generalize for the whole country without more complete information.

Comparative figures on the progress of literacy from between 1901 and 1941 are available, in particular, for the States of Cochin, Jaipur, Rajputana and Ajmer-Merwara, as given in Table 100. These States together, however, only accounted for about 19 million people, or less than five per cent of the total population.

TABLE 100. Reduction of illiteracy in the States of Cochin, Jaipur, Rajputana and Ajmer-Merwara: 1901-41

| State, age level | Percentage of illiteracy | | | | | Reduction in illiteracy |
|-----------------------------|--------------------------|------|------|------|---------|----------------------------|
| and sex | 1901 | 1911 | 1921 | 1931 | 1941 | 1901-41 |
| Cochin (all ages) | | | | | | % |
| Both sexes | 86.7 | 84.9 | 81.5 | 71.8 | 64.7 | 22.0 |
| Male | 77.6 | 75.7 | 72.6 | 61.7 | ••• | • |
| Female | 95.5 | 93.9 | 90.1 | 81.5 | ••• | • |
| Jaipur (10 and over) | | | | | | |
| Male | 94.1 | 92.1 | 91.8 | 91.7 | 87.5 | 6.6 |
| Female | 99.9 | 99.7 | 99.5 | 99.4 | 98.9 | 1.0 |
| Rajputana (10 and over) | | | | | | |
| Male | 92.5 | 92.1 | 91.9 | 91.4 | $88{3}$ | 4.2 |
| Female | 99.8 | 99.7 | 99.5 | 99.4 | 98.7 | 1.1 |
| Ajmer-Merwara (10 and over) | | | | | | |
| Male | 85.8 | 83.7 | 79.0 | 77.7 | 74.9 | 10.9 |
| Female | 99.0 | 98.3 | 97.2 | 96.3 | 94.6 | 4.4 |

ILLITERACY IN URBAN AND RURAL AREAS

Separate tabulations on literacy in urban and rural areas are available for three States—Assam, Baroda and Mysore—from the census of 1941. Differences in percentage of illiteracy for urban and rural areas were in each instance greater among the male population than among the female.

TABLE 101. Percentage of illiteracy in urban and rural areas of Assam, Baroda and Mysore, by sex: 1941

| State, age level | Percentage of illiteracy | | | | |
|---------------------------|--------------------------|------|--------|--|--|
| and area | Both sexes | Male | Female | | |
| Assam¹ (all ages) | 88.4 | 81.5 | 96.0 | | |
| Towns | $64.\bar{3}$ | 54.4 | 78.3 | | |
| Villages | 89.5 | 82.8 | 96.7 | | |
| Baroda (5 years and over) | 73.3 | 62.0 | 85.5 | | |
| Towns | 60.9 | 47.3 | 76.3 | | |
| Rest of State | 77.6 | 67.2 | 88.6 | | |
| Mysore (all ages) | 87.0 | 79.6 | 94.7 | | |
| Urban | 68.o | 56.7 | 80.3 | | |
| Rural | 91.2 | 84.9 | 97.9 | | |

¹ Excluding population of tea plantations, railway areas, and floating population.

CONSISTENCY AND RELIABILITY OF DATA

The instruction to enumerators relating to literacy in the census of 1901 reads as follows: 'Enter against all persons, of whatever age, whether they can or cannot both read and write any language.' In 1911, the wording of the instruction was slightly altered: 'Enter against all persons who can both read and write any language the word "literate". Against persons who cannot read and write any language make a cross in this column.'

No specific instructions had been given to the enumerators in 1901 as to the degree of proficiency in reading and writing which should be held to qualify a person to be entered as literate. In 1911, however, a supplementary explanation was given that only those persons should be entered as literate who could write a letter to a friend and read his reply. Because of the application of this standard in the 1911 census, the report of the census commissioner mentioned the difficulty in comparing the results of that census with the preceding one.

The criterion adopted in the 1911 census appears to have been retained for the censuses of 1921 and 1931. The census report of 1921 contains the following statement regarding the general accuracy of the statistics on literacy:

'It is not easy to compute the degree of accuracy which the statistics represent. There are a considerable number of persons who can read but not write, chiefly Mohammedans who have learnt enough Arabic to be able to read the Koran. This class has some pretension to literacy. . . . It does not, however, qualify under the definition laid down. So far as the human equation is concerned, ambition on the part of the public to be recorded as literate was probably met by exclusiveness on the part of the educated enumerator, who had the last word in the matter. . . . On the whole there is a consensus of opinion that the simple criterion laid down was easily understood and sensibly interpreted.'

ITALY: 1901-31

CRITERION OF LITERACY AND METHOD OF TABULATION

The censuses of Italy during this period contained a question on whether the person enumerated could or could not read. There is no specification as to what he could read, nor any indication as to whether or not he could also write. Therefore, the figures on the number and percentage of illiterates in Italy may be understated to the extent that persons who can read but cannot write have not been included in the count.

The returns on literacy have not been uniformly tabulated for the different censuses. For the 1901 census, those who could read and those who could not read were tabulated by sex and by year of birth. Persons whose year of birth was unknown were included in the total.

In the report for the census of 1911, those who could read, those who could not read, and, in addition, those whose literacy was not stated, were tabulated by sex and age groups, including a group for unknown age.

For 1921, the census tabulation showed only the number of persons who could read, by sex and by age-groups, excluding those whose age was unknown. Since the extent of territory had changed between 1911 and 1921, a separate table was given of the data according to the old boundaries, in comparison with data from previous censuses in 1882, 1901 and 1911.

Finally, for 1931, the last census for which literacy data are available, the tabulation is given in a reduced number of age groups, but again including a group of unknown age. The census schedule for 1936 did not contain a question on literacy.

ILLITERACY IN THE TOTAL POPULATION

The number and percentage of persons who cannot read, according to the Italian censuses of 1901-31, among the total population 6 years old and over and 10 years old and over, are given in Table 102.

TABLE 102. Number and percentage of illiterates in the population of Italy, 6 and 10 years old and over: 1901-31

| Census year | Total No. of persons | Persons who cannot read | Percentage illiterate |
|---------------------------------|-------------------------|-------------------------|--------------------------|
| Population 6 years old and over | | | |
| 1901 | 27 536 713 | 13 351 821 | 48.5 |
| 1911 | 29 409 261 | 11 073 014 | 37.7 |
| 1921 ¹ | 32 812 896 | 9 262 046 | 28.2 |
| 19212 | 34 223 361 | 9 401 341 | 27.5 |
| 1931 | 35 709 101 | 7 458 912 | 20.9 |

¹ Old boundaries, i.e., excluding Venezia Tridentina and Venezia Giulia.

² New boundaries, i.e., including Venezia Tridentina and Venezia Giulia.

| Census year | Total No. of persons | Persons who cannot read | Percentage illiterate | |
|-------------------------|--|-------------------------|--------------------------|--|
| Population 10 years old | d and over | | | |
| 1901 | 24 705 851 | 11 910 468 | 48.2 | |
| 1911 | 26 456 390 | 9 842 872 | 37.2 | |
| 1921 1 | 29 478 154 | 8 111 594 | 27.5 | |
| 1921 2 | 30 758 420 | 8 228 264 | 26.8 | |
| 1931 | 32 120 508 | 6 948 351 | 21.6 | |
| | cluding Venezia Tridentina and C cluding Venezia Tridentina and | | | |

It must be observed that the data for 1931 are comparable only with the 1921 data for the new boundaries, whereas the data for the old boundaries in 1921 are to be compared with those from previous censuses.

REDUCTION OF ILLITERACY, BY SEX

Thus it is seen, from Table 103, that the percentage of illiteracy in the population of Italy 10 years old and over decreased from 48.2 in 1901 to 27.5 in 1921; and again from 26.8 in 1921 (for the new boundaries) to 21.6 in 1931. This represents an average decennial rate of progress of 24 per cent between 1901 and 1931; and of 19 per cent during the decade 1921-31.

TABLE 103. Reduction of illiteracy in the population of Italy, 10 years old and over, by sex: 1901-31

| Census | Perc | entage of illitera | су |
|-----------------------------|------------|--------------------|--------|
| year | Both sexes | Male | Female |
| 1901 | 48.2 | 41.7 | 54.6 |
| 1911 | 37.2 | 31.6 | 42.5 |
| 1921 (old boundaries) | 27.5 | 24.0 | 30.9 |
| Reduction in percentage of | | _ | |
| illiteracy: 1901-21 | 20.7 | 17.7 | 23.7 |
| Average decennial rate of | · | | - |
| progress: 1901-21 | 24.0 | 24.0 | 25.0 |
| 1921 (new boundaries) | 26.8 | 23.3 | 30.0 |
| 1931 | 21.6 | 17.8 | 25.2 |
| Reduction in percentage of | | • | _ |
| illiteracy: 1921-31 | 5.2 | 5.5 | 4.8 |
| Decennial rate of progress: | ŭ | 0 0 | - |
| 1921-31 | 19.0 | 24.0 | 16.0 |
| Average decennial rate of | Ŭ | • | |
| progress: 1901-31 | 22.0 | 24.0 | 21.0 |

The percentage of illiteracy has been always lower among the male population than among the female. The rate of progress among the male population has averaged 24 per cent per decade throughout the period under consideration. Among the female population the rate of progress was greater during the period 1901-21, but slowed down appreciably during the following decade, so that the rate of progress for the whole period averaged only 21.

REDUCTION OF ILLITERACY, BY AGE GROUPS

Table 104 shows the percentage of illiteracy among comparable age groups for each census between 1901 and 1931. It is clear that the greatest amount of progress has been registered among the younger age groups. So much so, that in the 1931 census the percentage of illiteracy for the 6-9 age group is for the first time lower than that for the population 10 years old and over. Hence the inclusion of this age group in the total population considered for literacy in 1931 brings the over-all percentage down from 17.8 to 17.4, whereas in previous years the effect was always in the opposite direction.

TABLE 104. Percentage of illiteracy in the population of Italy 6 years old and over, by sex and age groups: 1901-31

| Sex and | Percentage of illiteracy | | | | | |
|-------------------|--------------------------|--------------|-------|--------------|------|--|
| age group | 1901 | 1911 | 19211 | 19213 | 1931 | |
| Male | | | | | | |
| 6 years and over | 42.5 | 32.6 | 25. I | 24.4 | 17.4 | |
| 6-9 | $49 \cdot 3$ | 40.9 | 34.0 | $33 \cdot 3$ | 13.7 | |
| 10 years and over | 41.7 | 31.6 | 24.0 | 23.3 | 17.8 | |
| 10-14 | 36.4 | 23.0 | 19.0 | 18.4 | 8.3 | |
| 15-19 | 336. ī | 25.0 | 17.5 | 17.0 | 11.3 | |
| 20-29 | 434.8 | 24.3 | 16.2 | 15.7 | 11.7 | |
| 30-39 | 38.1 | 28.0 | 20.5 | 19.9 | 13.8 | |
| 40-49 | 42.4 | 34.0 | 26.1 | 25.4 | 18.7 | |
| 50-64 | 52.5 | 42.6 | 34.0 | 33.2 | 27.9 | |
| 65 and over | 59.8 | $53 \cdot 7$ | 45.2 | 44 · 4 | 41.1 | |
| Unknown | 43 · I | 56.5 | | | 41.0 | |

Old boundaries.

² New boundaries.

³ Age group 15-20.

⁴ Age group 21-29.

| Sex and | | Perce | entage of illite | racy | |
|-------------------|-------------------|-------|------------------|--------|------|
| age group | 1901 | 1911 | 1921 1 | 1921 2 | 1931 |
| Female | ***** | | | | |
| 6 years and over | 54.4 | 42.4 | 31.3 | 30.5 | 24.2 |
| 6-9 | 52.5 | 42.4 | 35.1 | 34.4 | 14.8 |
| 10 years and over | 54.6 | 42.5 | 30.9 | 30.0 | 25.2 |
| 10-14 | 38.9 | 24.8 | 19.6 | 19.0 | 9.2 |
| 15-19 | ³ 40.0 | 28.3 | 18.4 | 17.9 | 12.2 |
| 20-29 | 444.8 | 32.8 | 22.0 | 21.4 | 15.1 |
| 30-39 | 53.6 | 39.7 | 28.2 | 27.4 | 21.3 |
| 40-49 | 63. г | 49.5 | 35.0 | 43.0 | 29.4 |
| 50 - 64 | 72.4 | 61.7 | 46.o | 44.9 | 40.2 |
| 65 and over | 78.8 | 71.6 | 59 • 4 | 58.2 | 57.0 |
| Unknown | $59 \cdot 4$ | 67.8 | | | 53.0 |
| 1 Old boundaries. | | | | | |

² New boundaries.

Table 105. Reduction of illiteracy in the population of Italy, among selected cohorts: 1911-31

| | Cohort | Pe | ercentage | of illitera | су | | tion of acy 3 | dece | erage ennial |
|------|---------------------------|-------------|-----------|-------------|------|---------|---------------|------|-----------------|
| | | 1911 | 19211 | 19212 | 1931 | 1911-21 | 1921-31 | | e of gress |
| | | | | | | | | % | % |
| I. | Persons born 1872-81 | | | | | | | | |
| | Im. Male | 28.0 | 26.1 | • | • | 1.9 | | 7 | |
| | If. Female | 39.7 | 35.0 | • | | 4.7 | • | 12 | |
| II. | Persons born 1882-91 | | | | | | | | ٠ |
| | IIm. Male | 24.3 | 20.5 | 19.9 | 18.7 | 3.8 | 1.2 | 16 | 6 |
| | IIf. Female | 32.8 | 28.2 | 27.4 | 29.4 | 4.6 - | - 2.0 | 14 | |
| III. | Persons born 1892-1901 | Ŭ | | , . | 5 1 | • | | • | |
| | IIIm. Male | 23.9 | 16.2 | 15.7 | 13.8 | 7.7 | 1.9 | 32 | 12 |
| | IIIf. Female | 26.5 | 22.0 | 21.4 | 21.3 | 4.5 | 0.1 | 17 | О |
| IV. | Persons born 1902-11 | | | - | | | | • | |
| | IVm. Male | • | | 17.8 | 11.7 | • | 6.1 | • | 34 |
| | IVf. Female | | • | 18.5 | 15.1 | • | 3.4 | | 18 |

¹ Old boundaries.

³ Age group 15-20.

⁴ Age group 21-29.

² New boundaries.

^{*} A plus sign in this column indicates increase of illiteracy.

REDUCTION OF ILLITERACY, BY COHORTS

Table 105 shows the reduction of illiteracy among selected cohorts during successive census years between 1911 and 1931. With one exception, each cohort has shown progress in literacy between censuses. The exception concerns cohort II f., that is, female persons born between 1882 and 1891, who, being 40-49 years old in 1931, had a higher percentage of illiteracy than they had in 1921, when they were all 10 years younger. It is possible that, for lack of opportunity to read, a certain number of such persons may have lost the art of reading once acquired, and relapsed into illiteracy.

MEXICO: 1900-40

ILLITERACY IN THE TOTAL POPULATION

Considering only the population 10 years old and over, and counting as illiterates all persons who cannot both read and write, the percentage of illiteracy in Mexico has decreased from 77.7 in 1900 to 54 in 1940. This represents a relative rate of progress of nine per cent per decade during the period of 40 years.

TABLE 106. Number and percentage of illiterates in the population of Mexico, 10 years old and over: 1900-40

| Census | Population 10 years old and over | | | | | | |
|--------|----------------------------------|---------------------------------------|---------------------------|--|--|--|--|
| year | Total No. of persons | Persons not able to read and write | Pencenta ge illiterate | | | | |
| 1900 1 | 9 822 220 | 7 636 459 | 77.7 | | | | |
| 19101 | 10 809 090 | 7 817 064 | 72.3 | | | | |
| 19212 | 10 538 622 | 6 973 855 | 66.2 | | | | |
| 1930 | 11 748 936 | 7 223 901 | 61.5 | | | | |
| 1940 | 13 960 139 | 7 543 951 | 54.0 | | | | |

Data on literacy in the censuses of 1900 and 1910, originally tabulated for persons 12 years old and over, were adjusted by the Dirección General de Estadistica to a comparable basis and published, as given here, in the 1930 census report.

However, it may be seen from Table 106 that, in spite of the steady decrease in percentage of illiteracy during this period,

² The 1921 census data do not include the populations of certain 'municipios' in six states and the territory of Quintana Roo, who were not enumerated.

the number of illiterate persons still remains at 7.5 million in 1940, being almost as many as in 1900. This, of course, is due to the increase in total population during this period at such a rate that the progress in reduction of illiteracy has barely been enough to keep the number of illiterates from growing.

REDUCTION OF ILLITERACY, 1900-40

Table 107 shows that the relative rate of progress has been accelerating with each intercensal period, starting with seven per cent per decade during the first decennial period until it was 12 per cent per decade for the period 1930-40.

TABLE 107. Reduction of illiteracy in the population of Mexico, 10 years old and over by decennial periods: 1900-40

| Period | Percentage o | f illiteracy | Reduction | Decennial rate of progress | |
|---------|---------------------------|---------------------|--------------------------------|----------------------------------|--|
| | At beginning of period | At end of period | in percentage of illiteracy | | |
| | | | | % | |
| 1900-10 | 77.7 | 72.3 | 5.4 | 7 | |
| 1910-21 | 72.3 | 66.2 | 6.1 | 8 | |
| 1921-30 | 66.2 | 61.5 | 4.7 | 8 | |
| 1930-40 | 61.5 | 54.0 | 7.5 | 12 | |
| 1900-40 | 77.7 | 54.0 | 23.7 | 9 | |

REDUCTION OF ILLITERACY, BY SEX

The percentage of illiteracy among the female population has been consistently higher than among the male throughout this period. As may be seen from Table 108, approximately the same

TABLE 108. Reduction of illiteracy in the population of Mexico, 10 years old and over, by sex: 1900-40

| Sex | Percentage of illitercay | | | Reduction of | Average decennial | | |
|------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|---------------------|
| Dex | 1900 | 1910 | 1921 | 1930 | 1940 | illiteracy 1900-40 | rate of progress |
| Both sexes Male Female | 77.7 73.5 81.8 | 72.3 68.2 76.3 | 66.2 63.0 69.1 | 61.5 56.7 66.0 | 0 1 | 23.7 23.5 23.9 | % 9 9 8 |

amount of reduction has been shown for each sex, although, because of the initial difference in percentage of illiteracy between the two sexes, the average decennial rate of progress is slightly more in favour of the male population.

ILLITERACY IN DIFFERENT AGE-GROUPS

In the 1921 census report, a separate tabulation on literacy was given for the male population over 21 years old. Of a total 4,417,279 persons in this category 3,170,858 were reported unable to read and write. Hence the percentage of illiteracy among male persons over 21 years old in 1921 was 71.8 per cent, as compared with 63 per cent among all male persons 10 years old and over.

The 1930 report tabulated the literacy status of the population 10 years old and over in four age groups: 10-14, 15-29, 30 and over, and age unknown. In 1940, the age-groups used for tabulation on literacy were: 6-9, 10-14, 15-39, 40 and over, and age unknown. Percentages of illiteracy in the population 10 years old and over, by these age-groups, are given in Table 109.

TABLE 109. Percentage of illiteracy in the population of Mexico, 10 years old and over, by sex and age groups: 1930 and 1940

| Census year | Percer | | |
|---------------------|--------------|--------------|--------------|
| and age-groups | Both sexes | Male | Female |
| 1930: | | | |
| 10 years and over 1 | 61.5 | <i>56.7</i> | 66.0 |
| 10-14 | 48.7 | 47.9 | 49.6 |
| 15-29 | 60.7 | 57.3 | 63.8 |
| 30 and over | 66.2 | 59.2 | 72.8 |
| Unknown | 38.o | 37.8 | 75.0 |
| 1940: | | | |
| 10 years and over 1 | 54.0 | 50.0 | <i>57</i> ·9 |
| 10-14 | 54. 5 | 54. 6 | 54.4 |
| 15-39 | 50.9 | 46.7 | 54.8 |
| 40 and over | 60.3 | 53.8 | 66.3 |
| Unknown | 65.2 | 63.6 | 67.2 |

It is worth noting that the age-group 10-14 showed a higher percentage of illiteracy in 1940 than in 1930, for both the male and the female population. On the other hand, the percentage of

illiteracy in the 15-39 group in 1940 was considerably lower than that for the 15-29 group in 1930. If these figures are reliable, it would seem that the generation 10-14 years old in 1930, who were less illiterate than the other age-groups, helped to bring down the illiteracy percentage in 1940 among the next older age group, but that a new generation aged 10-14 in 1940 had grown up with less opportunity than the earlier one to acquire a knowledge of reading and writing.

PHILIPPINES: 1918-48

ILLITERACY IN THE TOTAL POPULATION

According to the census of 1948, there were 5,024,482 persons 10 years old and over who could neither read nor write in any language. This was 38.7 per cent of the total population at that age level, and compares with 50.8 per cent illiterates in the total native population of the Islands at the 1918 census, or rather with 51.2 per cent illiterates at the 1939 census.

TABLE 110. Number and percentage of illiterates in the population of the Philippines, 10 years old and over: 1918-48

| | Population 10 years old and over | | | | | |
|----------------|-----------------------------------|--|--------------------------|--|--|--|
| Census year | Total No. of persons ¹ | Persons not able to read and write | Percentage illiterate | | | |
| 19182 | 6 381 261 | ³ 3 242 627 | 50.8 | | | |
| 1939 | 10 890 400 | 5 574 254 | 51.2 | | | |
| 1948 | 12 984 532 | 5 024 482 | 38.7 | | | |

Excluding persons unspecified for literacy, numbering 13,479 in 1939 and 316,429 in 1948.

It should be noted that the criterion of literacy used in the 1918 census was simply ability to read, without reference to ability to write, whereas at the later censuses a person was only considered literate if he could both read and write. Hence the data from the 1918 census are not comparable with those from the following censuses. Between 1939 and 1948 there was a decrease of 12.5 per

Native population only.

³ Not able to read any local dialect.

cent in illiteracy, which represents a relative rate of progress of 24 per cent during that decade.

REDUCTION OF ILLITERACY, BY SEX AND AGE GROUPS

According to the 1918 census the percentage of illiteracy was 47 for male persons, and 54.6 for female persons, 10 years old and over. However, due to the difference in criteria of literacy between that census and the later ones, comparisons are possible only between the censuses of 1939 and 1948. Furthermore, classification by comparable age groups is available only for these two census years.

TABLE 111. Reduction of illiteracy in the population of the Philippines 10 years old and over, by sex and age-groups: 1939-481

| Sex and | Percentage | of illiteracy | Reduction | Decennia |
|-------------------|------------|---------------|--------------------------------|------------------|
| age group | 1939 | 1948 | in percentage of illiteracy | rate of progress |
| Male | | | | % |
| 10 years and over | 45.6 | 35.6 | 10.0 | 22 |
| 10-14 | 45.7 | 34.4 | 11.3 | 25 |
| 15-19 | 37.5 | 24.3 | 13.2 | 35 |
| 20-24 | 35.6 | 25.0 | 10.6 | 30 |
| 25-34 | 38.9 | 31.5 | 7.4 | 19 |
| 35-44 | 47.5 | 36.9 | 10.6 | 22 |
| 45-54 | 56.4 | 47.6 | 8.8 | 16 |
| 55-64 | 65.2 | 58.8 | 6.4 | 10 |
| 65 and over | 74.5 | 72.0 | 2.5 | 3 |
| Unknown | 42.3 | 9.5 | • | • |
| Female | | | | |
| 10 years and over | 56.8 | 41.7 | 15.I | 27 |
| 10-14 | 45.4 | 32.1 | 13.3 | 29 |
| 15-19 | 41.6 | 25.2 | 16.4 | 39 |
| 20-24 | 45.6 | 30.9 | 14.7 | 32 |
| 25-34 | 52.6 | 38.9 | 13.7 | 26 |
| 35-44 | 67.3 | 48.5 | 18.8 | 28 |
| 45 - 54 | 78.3 | 64.6 | 13.7 | 17 |
| 55-64 | 84.6 | 76.2 | 8.4 | 10 |
| 65 and over | 89.9 | 83.7 | 6.2 | 7. |
| Unknown | 65.8 | 12.4 | • | |

¹ The census dates were I January 1939 and I October 1948 respectively; thus the intercensal period was almost, though not exactly, a decade.

HIGHEST GRADE OF SCHOOL COMPLETED

The censuses in 1939 and again in 1948 also reported on the population 5 years old and over according to the highest grade of school completed. Table 112 gives, for male and female persons 10 years old and over, and for the different age-groups, the percentage of those who had completed no grade, of those who had completed the first grade, the second grade, the third grade and higher.

TABLE 112. Percentage of the population of the Philippines 10 years old and over, according to highest grade of school completed, by sex and age groups: 1939 and 1948

| | Percentage of persons having completed | | | | | | | | |
|--------------------------|--|------|------|-----------|------|-----------|------|-------------------------|--|
| Sex and age group | No grade 1 | | ıst | ıst grade | | 2nd grade | | 3rd grade and higher | |
| | 1939 | 1948 | 1939 | 1948 | 1939 | 1948 | 1939 | 1948 | |
| Male | | | | | | | | | |
| 10 years and over | 49.9 | 37.6 | 4.0 | 3.8 | 7.4 | 9.2 | 38.7 | 49.4 | |
| 10-14 | 34.3 | 21.3 | 8.11 | 11.4 | 15 | 21.1 | 38.9 | 46.2 | |
| 15-19 | 35.0 | 21.6 | 3.6 | 3.0 | 7.6 | 8.3 | 53.7 | 67.1 | |
| 20-24 | 37.3 | 26.7 | 2.3 | 1.8 | 6.8 | 5.9 | 53.6 | 65.6 | |
| 25-34 | 43.6 | 37.9 | 2.3 | 1.8 | 6.7 | 6.3 | 47.5 | 54.1 | |
| 35-44 | 57.7 | 45.0 | 2.4 | 8.1 | 6.6 | 6.3 | 33.4 | 46.9 | |
| 45-54 | 74.1 | 57.1 | 2.0 | 1.9 | 4.3 | 6.3 | 19.7 | 34.7 | |
| 55-64 | 87.4 | 73.1 | 1.5 | 1.5 | 2.3 | 4.2 | 8.7 | 21.1 | |
| 65 and over ² | 92.2 | 89.4 | 1.2 | 0.9 | 1.6 | 8.1 | 5.0 | 7.9 | |
| Female | | | | | | | | | |
| 10 years and over | <i>58.7</i> | 42.8 | 3.4 | 3.3 | 6.8 | 8.4 | 31.2 | 45.5 | |
| 10-14 | 36.1 | 19.9 | 9.7 | 9.5 | 13.5 | 19.1 | 40.6 | 51.5 | |
| 15-19 | 40.8 | 23.4 | 2.9 | 2.4 | 7.2 | 7.4 | 49.1 | 66.8 | |
| 20-24 | 47.1 | 32.4 | 2.4 | 8.1 | 6.8 | 6. ı | 43.8 | 59.7 | |
| 25-34 | 55.7 | 44.2 | 2.4 | 8.1 | 6.8 | 6.4 | 35.0 | 47.5 | |
| 35 - 44 | 73.5 | 54.8 | 2.4 | 2.0 | 5.7 | 6.6 | 18.4 | 36.6 | |
| 45-54 | 87.9 | 71.4 | 1.6 | 2.0 | 2.6 | 5.6 | 7.9 | 21.0 | |
| 55-64 | 94.6 | 85.7 | 1.0 | 1.3 | 1.2 | 2.8 | 3.1 | 10.1 | |
| 65 and over 2 | 96.8 | 94.2 | 0.7 | 0.8 | 0.7 | I.I | 1.7 | 3.9 | |

¹ Including persons not reporting grade completed, who represented, in 1939, less than one per cent of the total of 'Persons not completing any grade and persons not reporting grade completed'.

Table 113 shows a comparison of the 1948 census data on illiteracy and on the highest grade of school completed. It shows that, for

Including age unknown, numbering 1,274 males, 674 females in 1939, and 339 males, 163 females in 1948.

the population 10 years old and over, more persons were reported as having failed to complete even the first grade of school than were reported as unable to read and write. This discrepancy is due, on the one hand, to persons beyond school-going ages having learned to read and write without having completed a single grade in school and is counterbalanced, on the other hand, by a considerable proportion of the children and young persons of school-going age not mastering the art of reading and writing till they have completed at least the first two or three grades of school.

For example, among male persons 65 years old and over, about 18 per cent had apparently learned to read and write without having completed the first grade in school; this proportion is about 14 per cent among male persons 55-64 years old, 10 per cent

Table 113. Percentage of illiteracy in the population of the Philippines, 10 years old and over, compared with percentage of persons having completed less than 3 grades of school: 1948

| | Percentage of persons 10 years old and over | | | | | | |
|--------------------------|---|------------------------------------|--|-------------------------------------|--|--|--|
| Sex and age group | Not able to read and write | Completed no grade ¹ | Completed less than 2nd grade ¹ | Completed less than 3rd grade | | | |
| Male | | | | | | | |
| 10 years and over | 35.6 | 37.6 | 41.4 | 50.6 | | | |
| 10-14 | 34.4 | 21.3 | 32.7 | 53.8 | | | |
| 15-19 | 24.3 | 21.6 | 24.5 | 32.9 | | | |
| 20-24 | 25.0 | 26.7 | 28,5 | 34.4 | | | |
| 25-34 | 31.5 | 37.9 | 39.6 | 45.9 | | | |
| 35-44 | 36.9 | 45.0 | 46.7 | 53.1 | | | |
| 45-54 | 47.6 | 57.1 | 59.0 | 65.3 | | | |
| 55-64 | 58 .8 | 73.1 | 74.6 | 78. 9 | | | |
| 65 and over ² | 71.9 | 89.4 | 90.3 | 92.1 | | | |
| Female | | | | | | | |
| 10 years and over | 41.7 | 42.8 | 46. I | 54.5 | | | |
| 10-14 | 32.1 | 19.9 | 29.5 | 48.5 | | | |
| 15-19 | 25.2 | 23.4 | 25.8 | 33.2 | | | |
| 20-24 | 30.9 | 32.4 | 34.2 | 40.3 | | | |
| 25-34 | 38.9 | 44.2 | 46.0 | 52.5 | | | |
| 35-44 | 48.5 | 54.8 | 56.8 | 63.4 | | | |
| 45-54 | 64.6 | 71.4 | 73.4 | 79.0 | | | |
| 55-64 | 76.2 | 85.7 | 87.o | 89.9 | | | |
| 65 and over 2 | 83.7 | 94.2 | 94.9 | 96.1 | | | |

¹ Including grade not reported.

² Including age unknown.

among the 45-54 age group, eight per cent among the 35-44 age group, six per cent among the 25-34 age group, and less than two per cent among the 20-24 age group.

Among male persons 15-19 years old, the percentage of illiteracy is approximately the same as the percentage of persons who have completed at least the first grade. Finally, among boys 10-14 years old, apparently some of those who have completed the second grade of school are counted among the illiterates.

PERSONS READING NEWSPAPERS AND MAGAZINES REGULARLY

According to the 1939 census, the number of persons who reported reading regularly any daily, weekly, or monthly newspaper or magazine was 1,717,457, being 10.7 per cent of the total population, or 15.8 per cent of the population 10 years old and over, or 32.3 per cent of the literate population 10 years old and over. Only in the city of Manila and the province of Negros Occidental was more than half of the literate population 10 years old and over reported as reading newspapers and magazines regularly.

PORTUGAL: 1900-40

CRITERION OF LITERACY

The census schedule for 1940 contained only one question on literacy 'Can you read' to be answered, as the case might be, by Yes or No. Literacy data for all the censuses since 1900 have been given in two categories: 'Can read' and 'Illiterate' (or 'Cannot read'). No minimum age limit is stated, but a comparative table on literacy for 1911-40 was given in the 1940 census report, for the population 7 years old and over.

ILLITERACY IN THE TOTAL POPULATION

Table 114 gives the number and percentage of illiterates (i.e. persons who cannot read) among the population 7 years old and over, and 10 years old and over, at each census between 1900 and 1940. It is to be observed that the number of illiterates has

remained almost the same, even though the percentage of illiteracy has been steadily reduced.

TABLE 114. Number and percentage of illiterates in the population of Portugal, 7 and 10 years old and over: 1900-40

| Census year | Total No. of persons | Persons who cannot read | Percentage illiterate |
|-----------------------|------------------------------------|-------------------------|--------------------------|
| Population 7 years of | ld and over | | |
| 1900 | 4 539 918 | 3 383 917 | 74.5 |
| 1911 | 4 965 374 | 3 489 256 | 70.3 |
| 1920 | 5 158 452 | 3 415 546 | 66.2 |
| 1930 | 5 742 399 | 3 549 231 | 61.8 |
| 1940 | ¹ 6 338 335 | 3 227 929 | 50.9 |
| Population 10 years | old and over | | |
| 1900 | 4 175 972 | 3 065 764 | 73.4 |
| 1911 | 4 550 597 | 3 137 583 | 68.9 |
| 1920 | 4 747 658 | 3 095 442 | 65.2 |
| 1930 | 5 294 048 | 3 189 234 | 60.2 |
| 1940 | 1 ₅ 8 ₄₅ 609 | 2 948 157 | 50.4 |

Among the population 10 years old and over, the average decennial rate of progress for the period 1900-40 was nine per cent for both sexes, 10 per cent for males at this age level, and eight per cent for females. The rate of progress during the decade 1930-40 was higher than for any previous period.

TABLE 115. Reduction of illiteracy in the population of Portugal, 10 years old and over, by periods and by sex: 1900-40

| | Percentage o | f illiteracy | Reduction | Decennial |
|-------------------|------------------------|---------------------|--------------------------------|------------------|
| Period and sex | At beginning of period | At end of period | in percentage of illiteracy | rate of progress |
| 1900-1911 | | | | % 6 |
| Both sexes | 73.4 | 68.9 | 4.5 | 6 |
| Male | 63.9 | 59.6 | 4.3 | 6 |
| Female | 81.8 | 77.0 | 4.8 | 5 |
| 1911-1920 | | • • | • | |
| Both sexes | 68.9 | 65.2 | 3.7 | 6 |
| Male | 59.6 | 56.4 | 3.2 | 6 |
| Female | 77.0 | 72.8 | 4.2 | 6 |
| 1920-1930 | | • | _ | |
| Both sexes | 65.2 | 60.2 | 5.0 | 8 |
| Male | 56.4 | 50.4 | 6. o | 11 |
| Female | 72.8 | 68.9 | 3.9 | 5 |

| D 1 1 | Percentage o | f illiteracy | Reduction | Decennial | |
|-------------------|------------------------|---------------------|--------------------------------|------------------|--|
| Period and sex | At beginning of period | At end of period | in percentage of illiteracy | rate of progress | |
| 1930-1940 | | | | | |
| Both sexes | 60.2 | 50.4 | 9.8 | 16 | |
| Male | 50.4 | 41.5 | 8.9 | 18 | |
| Female | 68.9 | 58.5 | 10.4 | 15 | |
| 1900-1940 | | | _ | | |
| Both sexes | 73.4 | 50.4 | 23.0 | 9 | |
| Male | 63.9 | 41.5 | 22.4 | 10 | |
| Female | 81.8 | 58.5 | 23.3 | 8 | |

REDUCTION OF ILLITERACY, BY SEX AND AGE GROUPS

The percentage of illiteracy has been higher for the female population than for the male, in every age group, throughout this period. Relatively more progress has been shown in all the age groups under 25, particularly among the male population.

TABLE 116. Reduction of illiteracy in the population of Portugal 7 years old and over, by sex and age-groups: 1911-40

| Sex and | Pe | c y | Average decennial | | |
|--------------------|------|------------|----------------------|-------|------------------|
| age group | 1911 | 1920 | 1930 | 19401 | rate of progress |
| Male | | | | | % |
| 7 years and over | 61.7 | 58.I | 52.8 | 44. I | II |
| 7-9 | 82.9 | 75.8 | 78.9 | 54.5 | 13 |
| 10 years and over | 59.6 | 56.4 | 50.4 | 43.2 | II |
| 10-14 | 63.1 | 60.7 | 53.7 | 36.o | 18 |
| 15-19 | 58.2 | 55.5 | 48.3 | 37.8 | 14 |
| 20-24 | 56.9 | 52.5 | 48.1 | 35.4 | 15 |
| 25-34 | 55.8 | 51.1 | 45.0 | 42.2 | 9 |
| 35-44 | 56.8 | 54.2 | 46.8 | 44.I | 8 |
| 45 - 54 | 59.7 | 57.4 | 52.2 | 47.7 | 7 |
| 55-64 | 63.9 | 61.1 | 56.5 | 54.4 | 5 |
| 65 and over | 68.5 | 65.5 | 61.7 | 59.3 | 5 |
| Unknown | 65.9 | 55.4 | 66.2 | 66.3 | • |
| Female | | | | | |
| 7 years and over | 77.8 | 73.3 | 69.9 | 60.1 | 9 |
| 7-9 | 86.8 | 80.1 | 81.7 | 59.1 | 12 |

¹ Uncorrected for cases of literacy unspecified, which have been included here with the illiterates. In 1940, 3.2 per cent of the population 7 years old and over were returned as unspecified for literacy. Previous census reports made no mention of this category.

| Sex and | P | асу | Average decennial | | |
|-------------------|------|------|----------------------|-------------------|------------------|
| age group | 1911 | 1920 | 1930 | 1940 ¹ | rate of progress |
| | | | | | % 8 |
| 10 years and over | 77.0 | 72.8 | 68.9 | 60.2 | 8 |
| 10-14 | 72.7 | 68.2 | 63.2 | 44.5 | 16 |
| 15-19 | 70.6 | 65 | 62.6 | 48.5 | 12 |
| 20-24 | 72.1 | 65.8 | 64.0 | 53.2 | 10 |
| 25-34 | 74.4 | 69.6 | 63.8 | 58.9 | 8 |
| 35-44 | 77.7 | 74.4 | 69 | 61.6 | 8 |
| 45-54 | 81.9 | 78.8 | 74.9 | 68.2 | 6 |
| 55-64 | 85.2 | 82.7 | 78.9 | 74.0 | 5 |
| 65 and over | 87.9 | 85.6 | 82.7 | 77.8 | 4 |
| Unknown | 79.1 | 67.8 | 77.0 | 70.8 | • |

¹ Uncorrected for cases of literacy unspecified, which have been included here with the illiterates. In 1940, 3.2 per cent of the population 7 years old and over were returned as unspecified for literacy. Previous census reports made no mention of this category.

ILLITERACY AMONG THE FOREIGN POPULATION

Literacy data by nationality for the foreign population were given in 1911 and 1920 for persons of all ages. The 1940 census, however, presents such data only for the population 10 years old and over. Thus comparison between the 1940 and earlier data is not possible. In 1940 illiteracy among the foreign population is noticeably lower than among the total population of Portugal.

TABLE 117. Percentage of illiteracy among the foreign population of Portugal, 10 years old and over, by nationality and sex: 1940

| Nationality | Total No. | Both | Percentage of illiteracy | | |
|----------------|------------|-------|--------------------------|--------|--|
| ivationality | of persons | sexes | Male | Female | |
| All foreigners | 30 010 | 13.4 | II.I | 15.7 | |
| Spanish | 11 421 | 16.8 | 10.7 | 24.4 | |
| Brazilian | 4 670 | 21.6 | 19.8 | 23.3 | |
| English | 3 435 | 5.6 | 5.6 | 5.6 | |
| German | ī 854 | 3.5 | 2.9 | 4.1 | |
| French | 1 521 | 5.6 | $6.\overline{6}$ | 5.0 | |
| U.S.A. | 1 270 | 23.5 | 25.2 | 21.6 | |
| Polish | 1 043 | 4.7 | 5.1 | 4.3 | |
| Belgian | 921 | 4.0 | 5.2 | 3.1 | |
| Italian | 706 | 7.5 | 4.7 | 11.4 | |
| All other | 3 169 | 10.3 | 0.11 | 9.3 | |

It is interesting to note that the percentages of illiteracy shown here for the foreign population of Portugal are, with the possible exception of the French and Belgian nationals, quite at variance with the illiteracy rates of the total population in their respective home countries. It is possible that certain unknown selective factors were operative in regard to the educational status of the foreigners who were enumerated in Portugal at the 1940 census. General conclusions, however, cannot be drawn, since the number of foreigners involved are relatively small.

Table 118. Percentage of illiteracy among the foreign population of Portugal, 10 years old and over, in 1940, compared with percentage of illiteracy in their respective home countries, for 1940 or the nearest census year

| Census of Portugal, 1940 | | Census of home country | | | |
|--------------------------|---|------------------------|--|--|--|
| Nationality | Percentage of illiteracy (both sexes, 10 years old and over) | Census year | Percentage of illiteracy (both sexes, 10 years old and over) | | |
| Spanish | 16.8 | 1940 | 23.2 | | |
| Brazilian | 21.6 | 1940 | 56.8 | | |
| French | 5.6 | 1946 | 3.4 | | |
| U.S.A. | 23.5 | 1930 | 4.3 | | |
| Belgian | 4.0 | 1930 | ¹ 5.6 | | |
| Italian | 7 ∙5 | 1931 | 21.6 | | |

ILLITERACY BY OCCUPATIONAL GROUPS

A very detailed table is given in the 1940 census report on the economically active population, classified by occupation and by literacy. The data are reproduced in condensed form in Table 119, which shows that the two largest groups—agricultural labourers and housewives—have the highest illiteracy rates, followed by the unskilled labourers and industrial workers. The only occupations with little or no illiteracy among their members are naturally the office workers and those in predominantly intellectual occupations.

Table 119. Percentage of illiteracy in the economically active population of Portugal, 10 years old and over, by chief occupational groups and by sex: 1940

| Chief | Total No. | Percentage of illiteracy | | | |
|--|-------------------------|--------------------------|----------------------|--------|--|
| occupational group ¹ | of persons ^a | Both sexes | Male | Female | |
| All groups Farmers and farm | 5 026 927 | 52.5 | <i>43</i> · <i>3</i> | 59.7 | |
| owners Manual or mechanical occupations in agricul- | 234 162 | 50.5 | 47.9 | 70.9 | |
| ture, forestry, etc. Industry (owners, self- | 1 150 921 | 63.2 | 60.6 | 77.0 | |
| employed, etc.) Manual or mechanical occupations in indus- | 12 975 | 11.3 | 10.2 | 33.8 | |
| try Merchants, salesmen and | 594 844 | 32.1 | 29.6 | 41.7 | |
| commercial agents Office workers, book- | 142 997 | 17.6 | 11.1 | 50.6 | |
| keepers and secretaries Predominantly intellec- | 50 270 | _ | | - | |
| tual occupations Other employees, including those in the service | 54 276 | | Amanual | ~~ | |
| trades Subordinate occupations in the armed forces, | 21 385 | 24.4 | 24.9 | 17.7 | |
| police, etc. Auxiliary occupations of a non-specialized nature (servants, un- | 56 645 | 8.5 | 8.5 | 17.0 | |
| skilled labourers, etc.) Other occupations (bar- | 342 187 | 56.3 | 44.9 | 62.8 | |
| bers, nurses, etc.) Occupations ill-defined, unknown, or non- occupational positions | 22 526 | 10.4 | 11.4 | 2.4 | |
| (housewives, etc.) | 2 343 739 | 58.4 | 3 8.6 | 59.6 | |

¹ The detailed list of occupations is too long to be reproduced here; for example, the major group 'manual or mechanical occupations in industry' is divided into 12 subgroups and 215 separate occupations.

² Excluding persons unspecified for literacy.

THE PHYSICALLY OR MENTALLY DEFICIENT

The 1940 census report also gives the number of persons who can read among the blind, deaf-mute and insane population, 10 years old and over, classified by broad age group. It is not stated exactly how the criterion of literacy was applied to these persons, but over 20 per cent were reported as able to read. Among the blind and deaf-mutes the percentage of those able to read was highest in the younger age groups, while among the insane persons those in the age groups 30-39 and 40-49 had the highest rates of literacy.

TABLE 120. Percentage of blind, deaf-mute and insane persons able to read, among the population of Portugal, 10 years old and over, by sex and age groups: 1940

| m - c 1 6 :- | /TI . 1 3 f | Percentage able to read | | | | |
|-------------------------------------|-------------------------|-------------------------|------|--------|--|--|
| Type of deficiency and age group | Total No. of persons | Both sexes | Male | Female | | |
| Blind | | | | | | |
| 10 years and over | 11 214 | 23.2 | 29.1 | 17.6 | | |
| 10-19 | 831 | 30.3 | 32.9 | 26.8 | | |
| 20-29 | 855 | 32.4 | 37.0 | 24.4 | | |
| 30-39 | 888 | 27.5 | 31.3 | 21.1 | | |
| 40-49 | I 144 | 22.6 | 27.1 | 16.9 | | |
| 50 and over | 7 496 | 21.0 | 27.3 | 16.1 | | |
| Deaf-mute | | | | | | |
| 10 years and over | 5 864 | 20.7 | 25.2 | 14.9 | | |
| 10-19 | 1 407 | 28.6 | 33.9 | 20.7 | | |
| 20-29 | 1 <u>3</u> 80 | 18.1 | 20.7 | 14.6 | | |
| 30-39 | 984 | 19.6 | 23.2 | 15.0 | | |
| 40-49 | 837 | 17.9 | 20.6 | 14.4 | | |
| 50 and over | 1 256 | 17.4 | 24.6 | 10.0 | | |
| Insane | • | | - | | | |
| 10 years and over | 12 785 | 23.8 | 27.7 | 19.1 | | |
| 10-19 | 1 946 | 14.6 | 15.8 | 12.9 | | |
| 20-29 | 2 456 | 20.0 | 21.3 | 18.1 | | |
| 30-39 | 2 563 | 26.7 | 29.4 | 23.1 | | |
| 40-49 | 2 133 | 29.5 | 35.4 | 22.0 | | |
| 50 and over | 3 687 | 26.0 | 34.6 | 18.4 | | |

SPAIN: 1900-40

SPAIN: 1900-40

CRITERION OF LITERACY

The censuses of Spain during this period contained two separate questions on the ability to read and the ability to write. The returns were given by the following classification: able to read and write; able to read only; unable to read or write; not stated.

In the analysis which follows, all persons unable both to read and to write are considered illiterate, and the percentage of illiteracy is computed on the total number of persons less those of literacy unstated.

ILLITERACY IN THE TOTAL POPULATION

The number of illiterate persons 6 years old and over decreased from 9,779,377 in 1900 to 8,676,418 in 1920. There was a reduction of illiteracy at this age level from 61.1 to 46.7 per cent in 20 years. Among the population 10 years old and over, the reduction of illiteracy between 1900 and 1940 was from 58.7 to 23.2 per cent. In relative terms, this means an average rate of progress of 21 per cent per decade.

TABLE 121. Number and percentage of illiterates in the population of Spain, 6 years old and over, 1900-20, and 10 years old and over, 1900-40

| Census year | Total No. of persons 1 | Persons not able to read and write | Percentage illiterate |
|---------------------------------|---------------------------|---|--------------------------|
| Population 6 years old and over | | | |
| 1900 | 15 999 652 | 9 779 377 | 61.1 |
| 1910 | 17 103 396 | 9 399 893 | 55.0 |
| 1920 | 18 562 989 | 8 676 418 | 46.7 |
| Population 10 years old | | · - | |
| and over | | | |
| 1900 | 14 324 449 | 8 408 579 | 58 . 7 |
| 1910 | 15 250 408 | 7 954 824 | 52.2 |
| 1920 | 16 700 750 | 7 342 200 | 44.0 |
| 1940 | 20 870 455 | 4 834 741 | 23.2 |
| | | | |

Excluding persons of literacy unspecified, numbering 20,190 in 1900; 56,484 in 1910; and 112,717 in 1920 among the population 6 years old and over.

REDUCTION OF ILLITERACY, BY SEX

The reduction in percentage of illiteracy, between 1900 and 1940, amounted to about 30 per cent for the male population and 41 per cent for the female. However, owing to the lower initial percentage of illiteracy in the male population, their average rate of progress was slightly better than that of the female population.

TABLE 122. Reduction of illiteracy in the population of Spain, 10 years old and over, by sex: 1900-40

| | Per | centage | of illiter | acy | Reduction of | Average decennia |
|------------|-------------------------|---------|-----------------------|------------------|--------------|---------------------|
| Sex | Sex 1900 1910 1920 1940 | 1940 | illiteracy 1900-40 | rate of progress | | |
| | | | | | | % |
| Both sexes | 58.7 | 52.2 | 44.0 | 23.2 | 35.5 | 21 |
| Male | 47.2 | 42.3 | 35.7 | 17.3 | 29.9 | 22 |
| Female | 69.4 | 61.3 | 51.6 | 28.5 | 40.9 | 20 |

ILLITERACY IN DIFFERENT AGE GROUPS

Comparable tabulations by age groups are available for the censuses between 1900 and 1920. For 1940, the age groups given

TABLE 123. Reduction of illiteracy in the population of Spain, 10 years old and over, by sex and age groups: 1900-40

| Sex and | Per | centage | of illit | Reduction of | Average decennial | | |
|--------------------|------|---------|----------|--------------|-----------------------|------------------|--|
| age group | 1900 | 1910 | 1920 | 19401 | illiteracy 1900-40 | rate of progress | |
| Male | | | | | | % | |
| 10 years and over2 | 47.2 | 42.3 | 35.7 | 17.3 | 29.9 | 22 | |
| 10-15 | 52.4 | 48.1 | 42.6 | 19.5 | 32.9 | 22 | |
| 16-20 | 45.2 | 39.9 | 33.5 | 14.3 | 30.9 | 25 | |
| 21-30 | 43.5 | 38.1 | 29.5 | 9.4 | 34.1 | 32 | |
| 31-40 | 43.5 | 38.5 | 32.1 | 13.1 | 30.4 | 26 | |
| 41-50 | 44.9 | 40.5 | 34.4 | 17.3 | 27.6 | 21 | |
| 51 - 60 | 49.8 | 43.7 | 38.1 | 23.3 | 26.5 | 17 | |
| 61 and over | 55.9 | 51.2 | 44.8 | 32.5 | 23.4 | 13 | |
| Unknown | 56.0 | 40.0 | 37 | • | • | • | |

Age groups in this column are: 10-14, 15-19, 20-29, 30-39, 40-49, 50-59, 60 and over; no figures were reported for any group of age unknown.

² Including age unknown, except for 1940.

| Sex and | Perc | entage (| of illiter | Reduction of | Average decennial | |
|--------------------|------|----------|------------|--------------|-----------------------|------------------|
| age group | 1900 | 1910 | 1920 | 19401 | illiteracy 1900-40 | rate of progress |
| | | | | | | % |
| Female | | | | | | |
| 10 years and over2 | 69.4 | 61.3 | 51.6 | 28.5 | 40.9 | 20 |
| 10-15 | 63.2 | 55.5 | 48.0 | 20.9 | 42.3 | 24 |
| 16-20 | 60.2 | 51.4 | 41.6 | 16.0 | 44.2 | 28 |
| 21-30 | 63.9 | 54.8 | 44. I | 18.5 | 45.4 | 27 |
| 31-40 | 69.1 | 60.4 | 50.1 | 25.7 | 43.4 | 22 |
| 41-50 | 73.7 | 65.7 | 55.4 | 32.1 | 41.6 | 19 |
| 51 - 60 | 80.0 | 71.5 | 62.1 | 40.0 | 40.0 | 16 |
| 61 and over | 84.4 | 79.0 | 69.7 | 52.4 | 32.0 | 11 |
| Unknown | 64.6 | 50.9 | 41.1 | • | • | • |

¹ Age groups in this column are:10-14, 15-19, 20-29, 30-39, 40-49, 50-59, 60 and over; no figures were reported for any group of age unknown.

were slightly different, but the data are believed to be fairly comparable with those from previous censuses. Table 123 shows that relatively more rapid improvement was shown in the male group aged 21-30 and in the female age groups aged 16-20 and 21-30. Furthermore, both the amount and rate of improvement were in favour of the female population over the male up to the age of 20; after that the rate of progress was higher for male persons in each age group, though the reduction in percentage of illiteracy continued to be greater for each female age group.

REDUCTION OF ILLITERACY BY COHORTS

Table 124 shows the progress in the reduction of illiteracy among selected cohorts between 1900 and 1920. Of male persons 11-20 years old in 1910 (cohort IVm.), 43.5 per cent were illiterate; this percentage of illiteracy decreased to 29.5 by 1920, showing a rate of progress of 32 per cent in a decade. This rate of progress is higher than for any other cohort shown in this table. It is noteworthy that even persons who were 31-40 years old in 1900 (cohorts Im. and If.) showed rates of progress of five to seven per cent in a decade.

² Including age unknown, except for 1940.

Table 124. Reduction of illiteracy in the population of Spain, by selected cohorts: 1900-20

| | Cohort | Percen | Percentage of illiteracy | | Reduct | ion of | Average decennial rate of progress | |
|------|-------------------------|--------|--------------------------|-------|---------|-------------|------------------------------------|---------|
| | Conord | 1900 | 1910 | 1920 | 1900-10 | 1910-20 | 1900-10 | 1910-20 |
| | | | | | | | % | % |
| I. | Persons born 1860-69 | | | | | | | , - |
| | Im. Male | 43.5 | 40.5 | • | 3.0 | • | 7 | • |
| | If. Female | 69.1 | 65.7 | • | 3.4 | | 5 | • |
| II. | Persons born 1870-79 | | | | | | | |
| | IIm. Male | 43.5 | 38.5 | 34.4 | 5.0 | 4. I | ΙI | 11 |
| | IIf. Female | 63.9 | 60.4 | 55.4 | 3.5 | 5.0 | 5 | 8 |
| III. | Persons born 1880-89 | | - | | | | | |
| | IIIm. Male | 48.4 | 38.1 | 32.1 | 10.3 | 6. o | 21 | 16 |
| | IIIf. Female | 61.1 | 54.8 | 50.1 | 6.3 | 4.7 | 10 | 9 |
| IV. | Persons born 1890-99 | | | | | - | | - |
| | IVm. Male | • | 43.5 | 29.5 | • | 4.0 | • | 32 |
| | IVf. Female | • | 52.8 | 44. I | • | 8.7 | • | 16 |

TURKEY: 1927-45

CRITERION OF LITERACY

In the census of 1927, there was only one question asked on literacy: 'Can the person read something in print?' The 1935 census schedule included two separate questions: 'Can or cannot read in the new characters?' 'Can or cannot write in the new characters?' The instructions to enumerators specified that persons able to read or to write any Western language were also to be returned in the affirmative. The census schedule and instructions for the 1945 census are not available, but it is assumed that the criterion used was the same as for 1935.

ILLITERACY IN THE TOTAL POPULATION

According to the 1927 census, there were 12,517,992 persons of all ages who were not able to read. This was 91.8 per cent of the

total population. Deducting from this number all children under 7 years of age, the percentage of persons not able to read is reduced to 89.4 per cent of the population 7 years old and over (male, 82.6 per cent; female, 95.4 per cent). Since detailed data on literacy are not available for the 1927 census, and since the criterion of literacy was changed after that census, the following analysis will be based entirely on the results of the 1935 and 1945 censuses.

The number and percentage of illiterates in the population 7 years old and over and 10 years old and over, in 1935 and 1945, are shown in Table 125.

TABLE 125. Number and percentage of illiterates in the population of Turkey, 7 years old and over, and 10 years old and over: 1935 and 1945

| Census year | | | Percentage illiterate |
|---------------------------------------|------------|------------|--------------------------|
| Population 7 years old and over | | | |
| 1935 | 12 366 833 | 9 892 059 | 80.0 |
| 1945 Population 10 years old and over | 15 166 911 | 10 620 117 | 70.0 |
| 1935 | 11 089 747 | 8 824 277 | 79.6 |
| 1945 | 13 727 943 | 9 542 170 | 69.5 |

It will be noted that the extent of illiteracy has been reduced by about 10 per cent between 1935 and 1945, but that, due to the increase in total population, the actual number of illiterates was higher in 1945 than in 1935. A reduction of about 15 per cent between 1935 and 1945 would have been necessary to prevent an increase in the number of illiterates.

REDUCTION OF ILLITERACY, BY SEX

The reduction in the percentage of illiteracy between 1935 and 1945 represents a decennial rate of progress of about 13 per cent. Among the male population, illiteracy was reduced in 10 years from 68 to 55 per cent; among females from 90.1 to 83.8 per cent. The relative rate of progress for males is 19 per cent in a decade, as compared with a rate of seven per cent for females.

TABLE 126. Reduction of illiteracy in the population of Turkey, 10 years old and over, by sex: 1935-45

| Sex | Percentage | of illiteracy | Reduction in | Decennial rate of progress | |
|------------|--------------|---------------|-----------------------------|----------------------------------|--|
| | 1935 | 1945 | percentage of illiteracy | | |
| | | | | % | |
| Both sexes | 7 9.6 | 69.5 | 10.1 | iğ | |
| Male | 68.o | 55.0 | 13.0 | 19 | |
| Female | 90.1 | 83.8 | 6.3 | 7 | |

REDUCTION OF ILLITERACY, BY AGE GROUPS

The most rapid progress seems to have been made in the 20-24 age group, both male and female. Among the males in the other age groups relatively more improvement is seen in the age groups 25-34, 15-19, 35-44, and 10-14. Comparable but smaller improvement was shown by females in each of the age groups under 35.

TABLE 127. Reduction of illiteracy in the population of Turkey, 7 years old and over, by sex and age groups: 1935-45

| Percentage of illiteracy | | Reduction in percentage | Decennial rate of | |
|--------------------------|--|---|---|--|
| 1935 | 1945 | of illiteracy | progress | |
| | | | % | |
| 69.4 | 56.6 | 12.8 | 18 | |
| 80.2 | 71.0 | 9.2 | 11 | |
| 68.o | 55.0 | 13.0 | 19 | |
| 62.1 | 51.7 | 10.4 | 17 | |
| 8.16 | 47.6 | 14.2 | 23 | |
| 58.o | 38.5 | 19.5 | 34 | |
| 60.9 | 45.8 | 15.1 | 25 | |
| 73.2 | 6o, 1 | 13.1 | 18 | |
| $79 \cdot 9$ | 72.4 | 7.5 | .9 8 | |
| 87.6 | 8o.6 | 7.0 | 8 | |
| 94 • 4 | 88.0 | 6.4 | 7 | |
| 97.8 | 82.5 | • | • | |
| | | | | |
| 89.8 | 83.4 | 6.4 | 7 | |
| • | | 8.1 | 9 | |
| 90.1 | 83.8 | 6.3 | 7 | |
| 77.5 | 69.3 | 8.2 | 11 | |
| 79.3 | 72.8 | 6.5 | 8 | |
| 85.1 | 76.0 | 9.1 | II | |
| | 69.4 80.2 68.0 62.1 61.8 58.0 60.9 73.2 79.9 87.6 94.4 97.8 | 69.4 56.6 80.2 71.0 68.0 55.0 62.1 51.7 61.8 47.6 58.0 38.5 60.9 45.8 73.2 60.1 79.9 72.4 87.6 80.6 94.4 88.0 97.8 82.5 | of illiteracy percentage of illiteracy 69.4 56.6 12.8 80.2 71.0 9.2 68.0 55.0 13.0 62.1 51.7 10.4 61.8 47.6 14.2 58.0 38.5 19.5 60.9 45.8 15.1 73.2 60.1 13.1 79.9 72.4 7.5 87.6 80.6 7.0 94.4 88.0 6.4 97.8 82.5 . 89.8 83.4 6.4 87.3 79.2 8.1 90.1 83.8 6.3 77.5 69.3 8.2 79.3 72.8 6.5 | |

¹ Including age unknown.

| Sex and | Percentage | Percentage of illiteracy | | Decennial | |
|-------------|------------|--------------------------|-----------------------------|------------------|--|
| age group | 1935 | 1945 | percentage of illiteracy | rate of progress | |
| | | | | % | |
| 25-34 | 91.2 | 85.2 | 6.0 | 7 | |
| 35-44 | 94.0 | 90.8 | 3.2 | 3 | |
| 45-54 | 97.1 | $94 \cdot 4$ | 2.7 | 3 | |
| 55-64 | 98.5 | 97.0 | 1.5 | 2 | |
| 65 and over | 99.1 | 98.1 | 0.1 | I | |
| Unknown | 99.5 | $93 \cdot 5$ | • | • | |

REDUCTION OF ILLITERACY, BY COHORTS

It is more instructive, however, to compare the illiteracy rates of selected cohorts in the two censuses. It is thus seen, from Table 128, that cohort Vm., boys who were 10-14 years old in 1935 and 20-24 years old in 1945, showed the most rapid progress, followed by cohort IVm., boys who were 15-24 years old in 1935 and 25-34 years old in 1945. Some improvement was still shown by males between the ages of 25 and 44 (cohorts IIIm. and IIm.), though male persons 45-54 years old seem to have become more illiterate 10 years later.

On the other hand, among female persons the only notable progress was shown by the youngest cohort (Vf., girls 10-14 years old in 1935). All the other groups showed either very little improvement (cohorts IIIf. and If.), or even some relapse into illiteracy (cohorts IVf. and IIf.). This may be due either to unequal educational opportunities between the sexes, or to unequal degrees of inaccuracy in the census statistics.

TABLE 128. Reduction of illiteracy in the population of Turkey, by selected cohorts: 1935-45

| | G.1 | Percentage | of illiteracy | Reduction in | Decennial |
|-----|---|------------|---------------|--|--------------------|
| | Cohort | 1935 | 1945 | percentage of illiteracy ¹ | rate of progress } |
| ī. | Persons born 1881-90 | | | | % |
| | Im. Male | 79.9 | 80.6 | + 0.7 | • |
| II. | If. Female Persons born 1891-1900 | 97.1 | 97.0 | 0.1 | 0 |
| | IIm. Male | 73.2 | 72.4 | 0.8 | I |
| | IIf. Female | 94.0 | 94.4 | + o.4 | • |

¹ A plus sign in this column indicates increase of illiteracy.

| Cohort | | entage iteracy | Reduction in percentage | Decennial rate of | |
|--|---|-------------------------|-------------------------|----------------------|--|
| | 1935 | 1945 | of illiteracy 1 | progress | |
| III. Persons born | | | | % | |
| IIIm. Male IIIf. Female | 60.9 | 60. I | 0.8 | 1 | |
| IV. Persons born | 91.2 | 90.8 | 0.4 | О | |
| I911-20 IVm. Male IVf. Female V. Persons born | $\begin{array}{c} 59.6 \\ 82.6 \end{array}$ | $\substack{45.8\\85.2}$ | 13.8 + 2.6 | 23 • | |
| 1921-25 Vm. Male Vf. Female | 62.1 77·5 | 38.5 76.0 | 23.6 1.5 | 38 2 | |
| 1 A plus sign in this column | n indicates increa | se of illiteracy. | | | |

ILLITERACY BY SIZE OF LOCALITY

The 1945 census also reported on literacy by size of locality, by maternal language, and by religion. Table 129 shows that the illiteracy rate is lowest in the largest cities, and highest in the rural areas, where the percentage of illiteracy for both sexes is just over twice that of the large cities. An interesting fact to be observed is that the difference between the two sexes within each size of locality is greater than the difference between persons of the same sex from localities of different sizes. That is to say, as far as illiteracy rates are concerned, the sex difference is more significant than the difference between large and small cities, or between small cities and the rural areas.

TABLE 129. Percentage of illiteracy in the population of Turkey, 7 years old and over, by size of locality and by sex: 1945

| Size of | | Total No. of persons | | Percentage of illiteracy | | | |
|---|---------------------------|-------------------------|---------------|--------------------------|--------|------|--|
| locality | (7 years old and over) | | Both sexes | Male | Female | | |
| Entire country 20 large cities | 15 | 166 | 911 | 70.0 | 56.6 | 83.4 | |
| of 30,000 or more inhabitants Cities of 10,000 to | 1 | 894 | 533 | 38.3 | 27.5 | 51.1 | |
| 30,000 inhabitants 1 | I | 138 | 169 | 51.3 | 37.0 | 67.8 | |
| Rest of country | 12 | 134 | 209 | 76.7 | 63.6 | 89.3 | |

ILLITERACY IN DIFFERENT LINGUISTIC GROUPS

Table 130 shows that, among the principal linguistic groups of the population, the highest illiteracy rate is reported for the Kurdish-speaking group, who constitute nearly eight per cent of the total population. The lowest illiteracy rate was found among the Yiddish-speaking group, who made up less than 0.3 per cent of the total population. All linguistic groups composed of less than 0.1 per cent of the total population, including some 131 persons of maternal language unknown, have been combined in the group 'Other'.

TABLE 130. Percentage of illiteracy in the population of Turkey (all ages), by principal linguistic groups and by sex: 1945

| Maternal | Total No. of | Percentage of illiteracy | | |
|---------------|--------------------|--------------------------|--------------|--------|
| language | persons (all ages) | Both sexes | Male | Female |
| All languages | 18 790 174 | 75.8 | 65.2 | 86.5 |
| Turkish | 16 598 037 | 74.3 | 63.1 | 85.7 |
| Arabic | 247 204 | 89.2 | 81.7 | 96.8 |
| Circassian | 66 691 | 74.4 | 62.9 | 85.8 |
| Armenian | 56 179 | 39.8 | 30.2 | 47.7 |
| Georgian | 40 076 | 76.8 | 62.1 | 91.0 |
| Laz | 46 987 | 80.2 | 64.3 | 93.2 |
| Greek | 88 68o | 50.6 | 29.8 | 66.7 |
| Yiddish | 51 019 | 38.o | 29.8 | 45.3 |
| Kurdish | 1 476 562 | 94.7 | 90.3 | 99.2 |
| Other 1 | 118 739 | 63.4 | $55 \cdot 4$ | 71.4 |

UNION OF SOUTH AFRICA: 1904-46

HISTORICAL NOTE

The Union of South Africa was formed in 1910 out of four separate colonies, namely, Cape Colony, Natal, Orange River Colony and Transvaal. Each of these colonies took a census in 1904, using more or less comparable methods of enumeration and tabulation. In the report for Natal, however, the tabulation on literacy

did not include the native population. For Transvaal, most of the tables included the population of Swaziland, which did not later become part of the Union of South Africa.

In 1911 a new census was taken in the whole territory of the Union, and this provides data on literacy which are useful for comparison with later census results. These consist of literacy data from the census of 1918, limited only to the 'European or white' population; from the censuses of 1921 and later years, when the question on literacy was retained only for the Bantu or native population.

From all the data thus obtained, it is possible to gain some idea of the progress of literacy in the total population of the Union only for the period 1904-11. For the 'European or white' population, progress may be followed to the next census in 1918; for the native population, comparisons are possible down to the 1946 census. For other ethnic groups besides these two, data are so incomplete that no useful information can be gained from their comparison.

ILLITERACY IN THE TOTAL POPULATION, 1904-11

Considering the total population, of all ages, in the four colonies in 1904 (excluding the native population of Natal), there were over 3 million persons who could neither read nor write, that is, about 75 per cent of the total population excluding the natives in Natal.

The number and percentage of illiterates in the four colonies in 1904 are given in Table 131, with totals obtained by the addition of figures for the separate colonies.

TABLE 131. Number and percentage of illiterates in the population of the colonies of South Africa, all ages, by European and other ethnic groups: 1904

| Colony and | | Population of all ages | |
|--------------|---------------------------|---------------------------------------|--------------------------|
| ethnic group | Total No. of persons 1 | Persons not able to read and write | Percentage illiterate |
| Cape | | | |
| All groups | 2 402 425 | 1 781 388 | 74. I |
| European or | • • • | | |
| white | 578 734 | 143 907 | 24.9 |
| Other 2 | 1 823 691 | ı 637 481 | 89.8 |

¹ Excluding persons of literacy unspecified, numbering 17,900 for all four colonies together.

² Including Africans (except for Natal), Indians and Asians, Mixed and Other.

| Calony and | | Population of all ages | |
|----------------------------|--------------------------------------|---------------------------------------|--------------------------|
| Colony and ethnic group | Total No. of persons ¹ | Persons not able to read and write | Percentage illiterate |
| Natal | | | |
| All groups 3 | 202 549 | 105 717 | 52.2 |
| European or | | | |
| white | 96 370 | 15 748 | 16.3 |
| Other 3 | 106 179 | 89 969 | 84.7 |
| Orange River | | | |
| All groups | 386 55 4 | 260 414 | 67.4 |
| European or | | | _ |
| white | 142 203 | 36 639 | 25.8 |
| Other ² | 244 351 | 223 775 | 91.6 |
| Transvaal 4 | | | _ |
| All groups | I 254 140 | 1 005 841 | 80.2 |
| European or | | | |
| white | 283 017 | 56 564 | 20.0 |
| Other ² | 971 123 | 949 277 | 97.8 |
| Total | | | |
| All groups 5 | 4 245 668 | 3 153 36o | 74·3 |
| European or | | | |
| white | 1 100 324 | 252 858 | 23.0 |
| Other 5 | 3 145 344 | 2 900 502 | 92.2 |

¹ Excluding persons of literacy unspecified, numbering 17,900 for all four colonies together.

As these figures refer to persons of all ages, including infants less than a year old, a more useful measure of illiteracy would be

TABLE 132. Percentage of illiteracy in the population of the Union of South Africa, 15 years old and over, by European and other ethnic groups: 1904 and 1911

| | | Percenta | ge of illiteracy | |
|----------------------------|---------------|---------------|------------------|------------------------|
| Ethnic group | 1904 | | 1911 | • |
| | Both sexes | Both sexes | Male | Female |
| All groups | 1 65.4 | 68.9 | 67.2 | 70.8 |
| European or white Other | 3.6 189.7 | 2.5 88.2 | 2.6 87.5 | $\substack{2.3\\88.9}$ |

Based on tabulated data for Cape and Orange River colonies, and adjusted data for Natal and Transvaal.

² Including Africans (except for Natal), Indians and Asians, Mixed and Other.

⁸ Excluding natives.

⁴ Excluding the population of Swaziland who were enumerated together with Transvaal.

⁵ Excluding natives in Natal.

obtained by excluding children below a certain minimum age. It is possible, with a few slight adjustments of data for two colonies, to fix this minimum age at 15 years. Table 132 shows a comparison of the extent of illiteracy in South Africa as reported in the censuses of 1904 and 1911, among the population 15 years old and over.

This comparison shows a reduction of illiteracy among the European or white population of 1.1 per cent, and among the rest of the population of about 1.5 per cent between the two census years. Incidentally, it may be noted that the percentage of illiteracy among the male European population was slightly higher than among the female. This is true not only for 1911, but for other census years as well (see Table 133).

ILLITERACY AMONG THE EUROPEAN OR WHITE POPULATION

A comparison of the census results for 1904, 1911, and 1918, relating to the European or white population, shows considerable progress made in the reduction of illiteracy, both among the male and the female populations. At the age level 10 years and over, the rate of progress was almost 50 per cent per decade. At the age level 15 years and over, the relative rate of progress was about 34 per cent per decade. The rate of progress was approximately equal between the sexes, although, as already noted, the percentage of illiteracy was less among the female population throughout this period.

TABLE 133. Reduction of illiteracy in the European or white population of South Africa, 10 and 15 years old and over, by sex: 1904-18

| Age level and sex | Per | centage of illite | Reduction in percentage of | Average decennial | |
|-------------------|------|-------------------|-------------------------------|-----------------------|------------------|
| | 1904 | 1911 | 1918 | illiteracy 1904-18 | rate of progress |
| _ | | | | | % |
| 10 years and over | | | | | |
| Both sexes | 5.4 | 3.0 | 2.1 | $3 \cdot 3$ | 49 |
| Male | 5.7 | 3.2 | 2.3 | 3.4 | 48 |
| Female | 4.9 | 2.8 | 1.9 | 3.0 | 49 |
| 15 years and over | | | V | Ü | • |
| Both sexes | 3.6 | 2.5 | 2.0 | 1.6 | 34 |
| Male | 3.9 | 2.6 | 2.2 | 1.7 | 34 |
| Female | 3.1 | 2.3 | 1.8 | 1.3 | 32 |

When these data are analysed by detailed age groups, as shown in Table 134, it is seen that the most rapid progress was registered among the age groups 10-14, and 15-19, both male and female. The advantage in literacy of the female over the male population holds for every age group below 55 in each of the census years except 1911, when the two sexes appear to have reached about the same level in the age groups 35-44 and 45-54.

TABLE 134. Reduction of illiteracy in the European or white population of South Africa, by sex and age groups: 1904-18

| Sex and | Perce | ntage of ill | iteracy | Reduction | Average decennia |
|-------------------------------------|--------------|--------------|---------|--------------------------|---------------------|
| age group | 1904 | 1911 | 1918 | of illiteracy 1904-18 | rate of progress |
| Male | | | | | % |
| 10 years and over 1 | 5.7 | 3.2 | 2.3 | 3.4 | 48 |
| 10-14 | 18.5 | 7.6 | 2.7 | 15.8 | 75 |
| 15-19 | 5.7 | 2.6 | I.I | 4.6 | 69 |
| 20-24 | 2.9 | 2.0 | 1.4 | 1.5 | 41 |
| 25-34 | 3.0 | 2.I | 1.7 | 1.3 | 33 |
| 35-44 | 4.0 | 2.4 | 2.2 | ı.ĕ | 35 |
| 45-54 | 4.6 | 3.0 | 2.9 | 1.7 | 28 |
| 55-64 | 5.1 | 3.9 | 3.8 | 1.3 | 19 |
| 65 and over | 6.5 | 5.1 | 5.3 | 1.2 | 14 |
| Unknown ² | 29.6 | • | • | • | • |
| Female | - | | | | |
| 10 years and over 1 | 4.9 | 2.8 | 1.9 | 3.0 | 49 |
| 10-14 | 13.3 | 5.7 | 2.0 | 11.3 | 74 |
| 15-19 | 2.8 | 1.8 | 0.7 | 2.1 | 63 |
| 20-24 | 2.4 | 1.5 | o.8 | 1.5 | 50 |
| 25-34 | 2.5 | 8. ı | 1.2 | 1.3 | 41 |
| 35-44 | 3.1 | 2.4 | 1.9 | 1.2 | 30 |
| 45-54 | 3.9 | 3.0 | 2.8 | 1.1 | 21 |
| 55-64 | 5.2 | 4.1 | 3.8 | 1.4 | 20 |
| 65 and over | 8.3 | 6.4 | 5.9 | 2.4 | 21 |
| Unknown ² | • | • | 1.9 | • | • |
| ¹ Including age unknown. | | | | | |

Marked differences existed between the urban and rural areas in 1904, when the percentage of illiteracy among the rural population was nearly twice that of the urban population. By 1918, however, this difference had almost disappeared among male persons, while the female population in the rural areas seem to have outstripped its urban sisters in literacy.

² Percentages are not shown where base is less than 100.

TABLE 135. Reduction of illiteracy in the European or white population of South Africa, 10 years old and over, by urban and rural areas and by sex: 1904-18

| Area and sex | Percer | Percentage of illiteracy | | | Average decennial |
|--------------|--------------------|--------------------------|---------------------|-----------------------|----------------------|
| | 19041 | 19111 | 1918 | illiteracy 1904-18 | rate of progress |
| Urban | | | | | % |
| Both sexes | ² 4 · 2 | 2.7 | 2.I | 2.1 | 39 |
| Male | ² 4·4 | 2.6 | 2.2 | 2.2 | 39 |
| Female | 23.9 | 2.7 | 2.0 | 1.9 | 38 |
| Rural | 0 0 | • | | Ü | ŭ |
| Both sexes | ² 7.6 | 3.5 | 2.0 | 5.6 | 61 |
| Male | ² 8.4 | 3.9 | 2.4 | 6.o | 59 |
| Female | ² 6.5 | 3.0 | $_{ m I}$. $ar{6}$ | 4.9 | 63 |

¹ Excluding travellers by rail.

ILLITERACY AMONG THE NATIVE POPULATION

Since the 'European' population constitutes only about 20 per cent of the total population of South Africa, the main problem of illiteracy in that country concerns of course the 'non-European' population, the bulk of which is made up of almost 8 million native Africans, according to the census of 1946. This native population is still about 80 per cent illiterate, though this represents already a certain amount of progress from the situation at the turn of the century.

TABLE 136. Number and percentage of illiterates in the native population of South Africa, all ages included: 1904-46

| Census Total | | Comessa | Total | Persons not | Per | centage of ill | iteracy |
|--------------|------------------|---------------------------|---------------|-------------|--------|----------------|---------|
| year | No. of persons 1 | able to read and write | Both sexes | Male | Female | | |
| 1904 2 | 2 586 222 | 2 453 484 | 94.9 | 94.5 | 95.2 | | |
| 1911 | 4 016 874 | 3 743 072 | 93.2 | 92.8 | 93.6 | | |
| 1921 | 4 685 689 | 4 230 291 | 90.3 | 89.7 | 90.8 | | |
| 1946 | 7 679 013 | ³ 6 049 101 | 78.8 | *78.1 | *79.5 | | |

¹ Excluding persons of literacy unspecified, numbering 4,724 in 1904; 2,132 in 1911; 12,124 in 1921; 152,902 in 1946.

² Excluding Natal (not available by urban and rural classification) but including Swaziland, whose population was enumerated with that of Transvaal at the 1904 census.

² Excluding natives in Natal.

³ Not able to read and write in a native language.

Table 136 shows that, between 1904 and 1946, the percentage of illiteracy among the native population, all ages included, was reduced from 94.9 to 78.8, which means a relative rate of progress of about four per cent per decade. That this rate of progress is hardly adequate may be seen from the fact that the number of illiterate persons has been rapidly increasing.

If we consider only the native population 10 years old and over in 1946, there were still more than 4 million persons not able to read and write in any language, out of a total of 5.6 million persons at that age level. The percentage of illiteracy at this age level is about 72 for the entire native population, about 55 for the native population in urban areas, and about 78 for the native population in rural areas, as shown in Table 137

Table 137. Number and percentage of illiterates in the native population of South Africa, 10 years old and over, by urban and rural areas and by sex: 1946

| | Population 10 years old and over | | | | | | |
|-----------------|--------------------------------------|---------------------------------------|---------------------------|--|--|--|--|
| Area and sex | Total No. of persons ¹ | Persons not able to read and write | Percenta ge illiterate | | | | |
| Urban and rural | | | | | | | |
| Both sexes | 5 596 739 | 4 052 635 | 72.4 | | | | |
| Male | 2 887 699 | 2 065 926 | 71.5 | | | | |
| Female | 2 709 040 | 1 986 709 | 73.3 | | | | |
| Urban | | | | | | | |
| Both sexes | 1 397 179 | 764 795 | 54.7 | | | | |
| Male | 951 031 | 555 548 | 58.4 | | | | |
| Female | 446 148 | 209 247 | 46.9 | | | | |
| Rural | | | | | | | |
| Both sexes | 4 199 560 | 3 287 840 | 78.3 | | | | |
| Male | ı 936 668 | 1 510 378 | 78.0 | | | | |
| Female | 2 262 892 | 1 777 462 | 78.5 | | | | |

¹ Excluding 118,006 persons of literacy unspecified and 26,476 persons of unknown age.

The illiteracy rate among the native population in urban areas is relatively higher for male persons than for female in every age group below 50. In the rural areas, however, the advantage of the female population over the male in regard to literacy holds only for the younger age groups under 30.

Table 138. Percentage of illiteracy in the native population of South Africa, 10 years old and over, by urban and rural areas, and by age and sex: 1946

| Area and | Perc | entage of illiteracy | 7 |
|---------------------|-------------|----------------------|--------|
| age group | Both sexes | Male | Female |
| Urban and rural | | | |
| 10 years and over 1 | 73·I | 72.2 | 74.0 |
| 10-19 | 70.6 | 73.9 | 67.1 |
| 20-29 | 68.3 | 68.4 | 68.2 |
| 30-39 | 71.7 | 68.9 | 75.0 |
| 40-49 | 76.3 | 72.6 | 80.5 |
| 50-59 | 80.5 | 75.9 | 85.1 |
| 60 and over | 87.7 | 82.5 | 91.8 |
| Unknown | 91.4 | 89.3 | 93.6 |
| Urban | | • • | |
| 10 years and over 1 | <i>56.3</i> | 59.6 | 49.2 |
| 10-19 | 49.0 | 55.8 | 39 · 7 |
| 20-29 | 55.3 | 60.4 | 42.6 |
| 30-39 | 57.4 | 59.7 | 51.2 |
| 40-49 | 59.9 | 60.3 | 58.9 |
| 50-59 | 62.1 | 59.2 | 67.1 |
| 60 and over | 73.8 | 66.3 | 81.7 |
| Unknown | 78.7 | 79.2 | 77 - 5 |
| Rural | | | |
| 10 years and over 1 | 78.7 | 78.5 | 79.0 |
| 10-19 | 74.9 | 78. ı | 71.8 |
| 20-29 | 75.7 | 76.2 | 75 - 3 |
| 30-39 | 78.7 | 76.3 | 8o.6 |
| 40-49 | 81.9 | 78.9 | 84.6 |
| 50-59 | 84.6 | 81.0 | 87.8 |
| 60 and over | 89.6 | 85. r | 93.1 |
| Unknown | 95.3 | 94.2 | 96.9 |

¹ Percentages for 10 years old and over are here computed on the total population including persons of unknown age and those of literacy unspecified; hence they do not agree with those shown in Table 147.

The census of 1946 gives tabulations on literacy of the native population in (1) native languages; (2) English, or (3) Afrikaans, as shown in Table 139. In the above analysis, all persons not able to read and write in a native language have been considered as illiterate. It is quite possible, of course, that some natives may be literate in English or Afrikaans, though not able to read and write in any native language. Unfortunately, data are not available on the extent of literacy or of illiteracy in any language.

UNION OF SOUTH AFRICA: 1904-46

TABLE 139. Percentage of literacy among the native population of South Africa, 10 years old and over, in native languages, English and Afrikaans, by urban and rural areas and by sex: 1946

| Area and sex | Per | Percentage of literacy 1 in | | | | |
|-----------------|------------------|-----------------------------|-----------|--|--|--|
| Area and sex | Native languages | English | Afrikaans | | | |
| Urban and rural | | | | | | |
| Both sexes | 27.6 | 10.7 | 4.6 | | | |
| Male | 28.5 | 10.7 | 4.8 | | | |
| Female | 26.7 | 10.7 | 4.5 | | | |
| Urban | • | • | | | | |
| Both sexes | 45.3 | 20.9 | 8.5 | | | |
| Male | 41.6 | 17.4 | 6.9 | | | |
| Female | 53.1 | 28.3 | 11.9 | | | |
| Rural | | • | _ | | | |
| Both sexes | 21.7 | 7.3 | 3.4 | | | |
| Male | 22.0 | 7.4 | 3.8 | | | |
| Female | 21.5 | $7 \cdot 3$ | 3.0 | | | |

CONSISTENCY OF THE DATA

The census schedules used in the four colonies in 1904 and in the Union of South Africa in 1911 and 1918 all provided for three types of response: (1) able to read and write; (2) able to read only, and (3) able neither to read nor write.

The schedule used in the 1921 census of the native population contains the following instructions: 'If able to read and write, insert the figure 1; if able to read only, insert the figure 2; if unable to read and write, insert the figure 3.' Judging by the tabulated results, the third alternative was evidently intended to cover those unable to read or write. Otherwise, alternatives 1 and 3 would have been mutually exclusive, and there would have been no possibility of alternative 2.

In all the foregoing analysis, persons not able both to read and write have been considered illiterate. Wherever possible, persons of literacy unspecified have been excluded from the total population used in the computation of illiteracy rates.

UNITED STATES: 1900-47

ILLITERACY IN THE TOTAL POPULATION

There were more than 6 million illiterates 10 years old and over in the United States at the beginning of the century. In 1947 there were still about 2.8 million illiterates among persons 14 years old and over. According to the census reports for the years 1900-30, and an estimate for 1940 made by the Bureau of the Census, the percentage of illiteracy in the United States population 10 years old and over dropped from 10.7 in 1900 to 2.9 in 1940, as shown in Table 140.

TABLE 140. Number and percentage of illiterates in the population of the United States, 10 years old and over: 1900-40

| | ulation 10 years old and over | |
|-------------------------|--|--|
| Total No. of persons | Persons not able to read and write | Percentage illiterate |
| 57 949 824 | 6 180 069 | 10.7 |
| 71 580 270 | 5 516 163 | 7.7 |
| 82 739 315 | 4 931 905 | 6.0 |
| 98 723 047 | 4 283 753 | $4 \cdot 3$ |
| 110 443 129 | *3 249 000 | *2.9 |
| | of persons 57 949 824 71 580 270 82 739 315 98 723 047 | of persons to read and write 57 949 824 6 180 069 71 580 270 5 516 163 82 739 315 4 931 905 98 723 047 4 283 753 |

The relative rates of progress for each decennial period since 1900 varied between 22 and 33 per cent. For the entire period 1900-40, the average decennial rate of progress was about 28 per cent.

TABLE 141. Reduction of illiteracy in the population of the United States, 10 years old and over, by decennial periods: 1900-40

| | Percentage of | f illiteracy | Reduction in | Decennial |
|---------|--------------------------------------|--------------|-----------------------------|------------------|
| | at beginning at en of period peri | | percentage of illiteracy | rate of progress |
| | | | | % |
| 1900-10 | 10.7 | 7.7 | 3.0 | 28 |
| 1910-20 | 7.7 | 6.0 | 1.7 | 22 |
| 1920-30 | 6.0 | $4 \cdot 3$ | 1.7 | 28 |
| 1930-40 | $4 \cdot 3$ | *2.9 | *1.4 | 33 |
| 1900-40 | 10.7 | *2.9 | *7.8 | 28 |

At the census of 1940, the question on literacy was replaced by a question on the last full grade that the person had completed in the regular school system.

In October 1947, the Census Bureau included supplementary questions on illiteracy and years of school completed in its monthly cross-section survey of population. Based on the results of this survey, the Bureau estimated the total number of illiterates at 2,838,000 among persons 14 years old and over, which represented 2.7 per cent of the total population at that age level. This compares with 4.7 per cent in 1930 (for persons 14 years old and over) and 6.5 per cent in 1920 (for persons 15 years old and over).

REDUCTION OF ILLITERACY, BY SEX

The percentage of illiteracy among the females was slightly higher than among the males in 1900 and 1910, but later censuses indicate a slightly lower percentage of illiteracy among the female population. The relative rate of progress was therefore greater among the female population than among the male during the three decades between 1900 and 1930. The estimates based on the 1947 survey also showed 2.3 per cent illiteracy among the female population as against 3 per cent among the male population.

TABLE 142. Reduction of illiteracy in the population of the United States, 10 years old and over, by sex: 1900-30

| Sex |] | Percentage o | of illiteracy | | Reduction of | Average decennial |
|------------|------|--------------|---------------|------|-----------------------|----------------------|
| | 1900 | 1910 | 1920 | 1930 | illiteracy 1900-30 | rate of progress |
| | | | | | | % |
| Both sexes | 10.7 | 7.7 | 6.0 | 4.3 | 6.4 | % 26 |
| Male | 10.1 | 7.6 | 6.0 | 4.4 | 5.7 | 24 |
| Female | 11.2 | 7.8 | 5.9 | 4.3 | 6.9 | 27 |

REDUCTION OF ILLITERACY, BY COLOUR AND NATIVITY

The census reports classified persons enumerated as: native white of native parentage, native white of foreign or mixed parentage, foreign-born white, Negro, and other races (including Mexican, Indian, Chinese, Japanese, Filipino, Hindu, Korean and 'all

other'). According to this classification, the percentage of illiteracy has been highest among the Negro and 'other races' as compared with either of the white groups, as shown in Table 143.

TABLE 143. Percentage of illiteracy in the population of the United States, 10 years old and over, by colour, nativity, and sex: 1900-30

| Colour, nativity | | Percentage | of illiteracy | |
|--------------------|------|------------|---------------|------|
| and sex | 1900 | 1910 | 1920 | 1930 |
| Native white | · | | | |
| Both sexes | 4.6 | 3.0 | 2.0 | 1.5 |
| Male | 4.6 | 3.1 | 2.2 | 1.7 |
| Female | 4.7 | 2.9 | 1.8 | 1.2 |
| Foreign-born white | - • | _ | | |
| Both sexes | 12.9 | 12.7 | 13.1 | 9.9 |
| Male | 11.3 | 8.11 | 11.7 | 8.1 |
| Female | 14.7 | 13.9 | 14.8 | 11.9 |
| Negro | • • | 0 0 | - | |
| Both sexes | 44.5 | 30.4 | 22.9 | 16.3 |
| Male | 43.1 | 30.1 | 23.5 | 17.6 |
| Female | 45.8 | 30.7 | 22.3 | 15.1 |
| Other races | | | _ | |
| Both sexes | 44.5 | 31.6 | 25.6 | 25.0 |
| Male | 37.5 | 25.0 | 22. I | 21.9 |
| Female | 59.8 | 46.2 | 31.8 | 29.1 |

Part of the decrease in illiteracy shown for the native white and foreign-born white groups is due to a change in the classification of Mexicans. They were classed with the white population in 1910 and 1920, but in 1930 they were shown separately among

TABLE 144. Reduction of illiteracy in the population of the United States, 10 years old and over, by colour and nativity: 1900-30

| Population group and period | Percentage of | of illiteracy | Reduction | Decennial |
|--------------------------------|------------------------|------------------|---|------------------|
| | At beginning of period | At end of period | in percentage of illiteracy ¹ | rate of progress |
| Native white | | | | % |
| . 1900-10 | 4.6 | 3.0 | 1.6 | 35 |
| 1910-20 | 3.0 | 2.0 | 1.0 | 33 |
| Foreign-born white | ; | | | |
| 1900-10 | 12.9 | 12.7 | 0.2 | 2 |
| 1910-20 | 12.7 | 13.1 | +0.4 | • |

¹ A plus sign in this column indicates increase of illiteracy.

| Population group | Percentage o | f illiteracy | Reduction | Decennial | |
|------------------|---------------------------------------|--------------|--------------------------------|------------------|--|
| and period | d At beginning At end of in percentag | | in percentage of illiteracy | rate of progress | |
| Negro | | | | % | |
| 1900-10 | 44.5 | 30.4 | 14.1 | 32 | |
| 1910-20 | 30.4 | 22.9 | 7.5 | 25 | |
| 1920-30 | 22.9 | 16.3 | 6.6 | 29 | |
| Other | | | | | |
| 1900-10 | 44.5 | 31.6 | 12.9 | 29 | |
| 1910-20 | 31.6 | 25.6 | 6.0 | 19 | |

the 'other races'. This change of classification invalidates any comparison between 1920 and 1930 except for the Negro population. The relative rates of progress are therefore shown in Table 144 for the Negro group for the period 1900-30, and for each of the other groups for the period 1900-20.

A further classification of the 'other races', for 1930 only, is shown in Table 145, which indicates illiteracy among these population groups in the following descending order: Mexican, Hindu, Indian, Chinese, Korean, Japanese, Filipino—and 'all other'.

TABLE 145. Number and percentage of illiterates in the population of the United States, 10 years old and over, of other than white or Negro race: 1930

| Population group | Total | Total No. | | or of | Perce | Percentage of illiteracy | | | |
|---------------------|--------|-----------|-----------------------|-------|------------------|--------------------------|--------|--|--|
| | of per | | Number of illiterates | | Both sexes | Male | Female | | |
| Mexican | 1 002 | 241 | 275 | 470 | 27.5 | 24.5 | 31.1 | | |
| Indian 1 | 238 | 981 | 61 | 517 | 25.7 | 24.0 | 27.6 | | |
| Japanese | 97 | 273 | 8 | 932 | 9.2 | 7.0 | 12.8 | | |
| Chinese | 63 | 392 | 12 | 912 | 20.4 | 20.0 | 22.3 | | |
| Filipino | 42 | 964 | 2 | 834 | $6.\overline{6}$ | 6.3 | 13.3 | | |
| Hindu | 2 | 833 | | 753 | 26.6 | 27.5 | 8.8 | | |
| Korean | I | 446 | | 184 | 12.7 | 11.7 | 15.3 | | |
| All other | | 694 | | 41 | 5.9 | 6.9 | 1.6 | | |

It may be observed that the percentage of illiteracy for these population groups was higher among the female population in all cases except the Hindu and 'all other', where the actual numbers of female illiterates enumerated were exceedingly small (12 Hindu women and 2 'all other').

In 1940, according to the Census Bureau's estimates, the number and percentage of illiterates among the white (native and foreignborn) and non-white populations were respectively:

| Population group | Number of illiterates 10 years old and over | Percentage of illiteracy | |
|------------------|---|-----------------------------|--|
| White | 2 008 000 | 2.0 | |
| Native | 983 000 | 1.1 | |
| Foreign-born | 1 025 000 | 9.0 | |
| Non-white | 1 241 000 | 11.5 | |

These figures may be compared with the following estimates for 1947, though there is a difference in the age level considered: white population, 14 years old and over: 1.8 per cent illiterate. Non-white population, 14 years old and over: 11.0 per cent illiterate.

ILLITERACY AMONG THE URBAN AND RURAL POPULATION

There is generally a considerable difference in the extent of illiteracy among the urban and rural populations, on account of differences in environment and in the kind of educational facilities available. Figures from the 1910 and 1930 censuses show up

TABLE 146. Reduction of illiteracy in the urban and rural population of the United States, 10 years old and over: by colour and nativity: 1910-30

| Area and | Percentage | of illiteracy | Reduction in | Average decennial | |
|---------------------|------------|---------------|--|----------------------|--|
| population group | 1910 | 1930 | percentage of illiteracy ¹ | rate of progress | |
| | | | | % | |
| Urban: All groups | 5 · I | 3.2 | I.g | 21 | |
| Native white | 0.8 | 0.5 | 0.3 | 21 | |
| Foreign-born white | 12.6 | 10.0 | 2.6 | 11 | |
| Negro | 17.6 | 9.2 | 8.4 | 28 | |
| Other | 11.0 | ı8.o | + 7.0 | | |
| Rural: All groups | 10.I | 6.o | 4. I | 23 | |
| Native white | 4.8 | 2.6 | 2.2 | 26 | |
| Foreign-born white | 13.2 | 9.4 | 3.8 | 1 6 | |
| Negro | 36. ı | 22.4 | 13.7 | 21 | |
| Other | 40.0 | 31.2 | 8.8 | 12 | |

¹ A plus sign in this column indicates increase of illiteracy.

these differences, particularly in the cases of the native white population and of the Negroes and other races.

In the case of the native white population, the higher rate of progress in rural areas has eliminated much of this difference, while the foreign-born white population in rural areas has actually somewhat surpassed the population in urban areas for literacy.

In 1947, the Census Bureau estimated the number and percentage of illiterates among the population 14 years old and over, by urban, rural non-farm and rural farm areas as shown in Table 147.

TABLE 147. Estimated number and percentage of illiterates in the population of the United States, 14 years old and over, by urban and rural areas and by sex: October 1947

| | Population 14 years old and over | | | | | |
|-----------------|----------------------------------|--------------------|-----------------------------|--|--|--|
| Area and sex | Total No. of persons | No. of illiterates | Percentage of illiteracy | | | |
| Total U.S. | 106 428 000 | 2 838 000 | 2.7 | | | |
| Urban | 64 900 000 | 1 267 000 | 2.0 | | | |
| Male | 30 851 000 | 590 000 | 1.9 | | | |
| Female | 34 049 000 | 677 000 | 2.0 | | | |
| Rural non-farm | 22 026 000 | 539 000 | 2.4 | | | |
| Male | 10 776 000 | 309 000 | 2.9 | | | |
| Female | 11 250 000 | 230 000 | 2.0 | | | |
| Rural farm | 19 501 000 | 1 032 000 | 5.3 | | | |
| Male | 10 107 000 | 659 000 | 6.5 | | | |
| Female | 9 395 000 | 373 000 | 4.0 | | | |

ILLITERACY IN DIFFERENT AGE GROUPS

Comparative figures on the illiterate population by age groups are available from the censuses of 1900-30. Table 148 shows the relative rates of progress in reduction of illiteracy in the various age groups of each sex for the period 1910-30.

It is obvious that the percentage of illiteracy is highest among the oldest segment of the population and becomes progressively lower with each younger age group. Together with the reduction of the percentage of illiteracy in each age group through successive censuses, this reflects the extension of schooling among the children. As these children replace their elders in the older age groups, the illiteracy rate in those age groups is eventually reduced.

Estimates made by the Census Bureau of the percentage of illiteracy in the 1940 population 10 years old and over, by age groups, are shown in Table 149.

TABLE 148. Reduction of illiteracy in the population of the United States, 10 years old and over, by sex and age groups: 1910-30

| Sex and | Percen | tage of | illiteracy | Reduction of | Average decennia |
|---------------------|--------|---------|------------|-----------------------|---------------------|
| age group | 1910 | 1920 | 1930 | illiteracy 1910-30 | rate of progress |
| Male | | | | | % |
| 10 years and over 1 | 7.6 | 6 | 4.4 | 3.2 | 24 |
| 10-14 | 4.6 | 2.6 | 1.4 | 3.2 | 45 |
| 15-19 | 5.8 | 3.7 | 2.4 | 3.4 | 36 |
| 20-24 | 7.5 | 4.5 | 3.2 | 4.3 | 35 |
| 25-34 | 7.6 | 5.6 | 3.4 | 4.2 | 33 |
| 35-44 | 7.6 | 6.9 | 4.9 | 2.7 | 20 |
| 45-54 | 8.7 | 8 | 6.5 | 2.2 | 14 |
| 55-64 | 10.6 | 8.4 | 7.0 | 3.6 | 19 |
| 65 and over | 12.5 | 0.11 | 8.9 | 3.6 | 16 |
| Unknown | 10 | 9.2 | 6.3 | • | • |
| Female | | | | | |
| 10 years and over 1 | 7.8 | 5.9 | 4.3 | 3.5 | 26 |
| 10-14 | 3.5 | 2.0 | 1.0 | 2.5 | 47 |
| 15-19 | 4.1 | 2.4 | 1.4 | 2.7 | 42 |
| 20-24 | 6.2 | 4.o | 2.2 | 4.0 | 40 |
| 25-34 | 7.0 | 5.6 | 3.1 | 3.9 | 33 |
| 35-44 | 8.6 | 7.1 | 5.4 | 3.2 | 21 |
| 45-54 | 11.3 | 8.3 | 6.8 | 4.5 | 22 |
| 55-64 | 13.6 | 9.8 | 7.5 | 6.1 | 26 |
| 65 and over | 16.5 | 13.0 | 10.5 | 6.o | 20 |
| Unknown | 19.2 | 12.4 | 7.Š | • | • |

¹ Including age unknown.

TABLE 149. Estimated number and percentage of illiterates in the population of the United States, 10 years old and over, by age groups: 1940

| Age group | Total number of persons | Number of illiterates | Percentage of illiteracy |
|-------------------|-------------------------|-----------------------|-----------------------------|
| 10 years and over | 110 443 129 | 3 249 000 | 2.9 |
| 10-14 | 11 745 935 | 117 000 | 1.0 |
| 15-24 | 23 921 358 | 273 000 | 1.1 |
| 25-34 | 21 339 026 | 465 000 | 2.2 |
| 35-44 | 18 333 220 | 504 000 | 2.7 |
| 45-54 | 15 512 071 | 652 000 | 4.2 |
| 55 - 64 | 10 572 205 | 557 000 | 5.3 |
| 65 and over | 9 019 314 | 680 000 | 7.5 |

As for 1947, the sample survey yielded estimates of the percentage of illiteracy in the population 14 years old and over, as shown in Table 150.

TABLE 150. Estimated percentage of illiteracy in the population of the United States, 14 years old and over, by sex and age groups: October 1940

| | Percentage of illiteracy | | | | |
|-------------------|--------------------------|------|--------|--|--|
| Age group | Both sexes | Male | Female | | |
| 14 years and over | 2.7 | 3 | 2.3 | | |
| 14-24 | 1.0 | 1.3 | 0.6 | | |
| 25-34 | 1.4 | 1.8 | 0.1 | | |
| 35-44 | 2.1 | 2.7 | 1.6 | | |
| 45-54 | 3.0 | 3.4 | 2.7 | | |
| 55-64 | 5.2 | 5.0 | 5.5 | | |
| 65 and over | 6.7 | 7.0 | 6.6 | | |

REDUCTION OF ILLITERACY, BY COHORTS

When several groups of persons, each born within a specified period, are followed through successive censuses, it is seen that the percentage of illiteracy among these persons tends to decrease. This is at least partly due to the fact that some of them have learned to read and write in the meantime, whether through school attendance or otherwise. However, as shown in Table 151, there are exceptions to this tendency as, for instance, in the case of cohort Im. (male persons 35-44 years old in 1910), and cohorts IIf. and IIIf. (female persons who were 15-34 years old in 1910). In such cases, there may have been a real relapse into illiteracy on the part of certain individuals who did not have sufficient opportunity to exercise their knowledge of reading and writing previously acquired.

ILLITERACY AND YEARS OF SCHOOL COMPLETED

In its 1947 survey, the Census Bureau asked at the same time a question on literacy and one on the highest grade of school completed, of all persons 14 years old and over. It was assumed that all persons who had completed five years of school or more were literate; hence information on literacy was obtained only from persons completing less than five years of school.

TABLE 151. Reduction of illiteracy among specified cohorts in the United States population: 1910-30

| | Cohort | Percer | Percentage of illiteracy | | | Reduction of illiteracy ¹ | | ennial te of |
|------|--------------|--------|--------------------------|------|---------|--------------------------------------|----|---------------------|
| | | 1910 | 1920 | 1930 | 1910-20 | 1920-30 | | ogress 0 1920-30 |
| ī. | Persons born | | | | | | % | % |
| | 1866-75 | | | | | | | |
| | Im. Male | 7.6 | 8.0 | | + 0.4 | | | |
| | If. Female | 8.6 | 8.3 | • | 0.3 | | 3 | • |
| II. | Persons born | | ū | | | | • | |
| | 1876-85 | | | | | | | |
| | IIm. Male | 7.6 | 6.9 | 6.5 | 0.7 | 0.4 | 9 | 6 |
| | IIf. Female | 7.0 | 7.1 | 6.8 | + o.1 | 0.3 | • | 4 |
| III. | Persons born | | | | | | | |
| | 1886-95 | | | | | | | |
| | IIIm. Male | 6.7 | 5.6 | 4.9 | 1.1 | 0.7 | 16 | 13 |
| | IIIf. Female | 5.1 | 5.6 | 5.4 | + 0.5 | 0.2 | | 4 |
| IV. | Persons born | ū | Ū | • • | | | | - |
| | 1896-1905 | | | | | | | |
| | IVm. Male | | 4. I | 3.4 | | 0.7 | | 17 |
| | IVf. Female | | 3.2 | 3.1 | | 0.1 | | 3 |

The results indicated that the 'completion of no particular grade of school corresponds to the attainment of a state of literacy'. On the one hand, not all persons were illiterate who had had no formal schooling; on the other hand, even among those who had completed four years of school nearly five per cent were found to be illiterate. Table 152 gives the estimated percentage of illiteracy for various population groups by the number of years of school completed, in October 1947.

RELIABILITY OF STATISTICS ON ILLITERACY

The census report of 1910 contains the following note on the 'margin of error' in statistics on illiteracy:

'There is undoubtedly a certain margin of error in the statistics of illiteracy, resulting from a variety of causes. In some cases there may be unwillingness to admit illiteracy on the part of the persons enumerated. Furthermore, there can be no doubt that in many parts of the country it is so certain that persons of the

Table 152. Estimated percentage of illiteracy in the population of the United States, 14 years old and over, by number of years of school completed: October 1947

| Population | r | | tage of illit years of scl | | leted |
|----------------|------|-------------------|-------------------------------|---------|---------|
| group | None | ı year | 2 years | 3 years | 4 years |
| Total U.S. | | | | | |
| Both sexes | 1.08 | 66.6 | 46.2 | 19.2 | 4.7 |
| Male | 79.4 | 71.7 | 47.3 | 21.6 | 5.9 |
| Female | 80.8 | 59.0 | 44.6 | 16.2 | 3.4 |
| Urban | | | | | |
| Both sexes | 75.7 | 54.2 | 34.5 | 15.2 | 4.7 |
| Male | 73.5 | 62.0 | 28.7 | 14.9 | 4.8 |
| Female | 77.5 | ¹ 44.0 | 40.5 | 15.6 | 4.7 |
| Rural non-farm | | | | | |
| Both sexes | 79.2 | 61.5 | 42.0 | 16.7 | 3.0 |
| Male | 77.3 | ¹ 62.7 | 42.0 | 21.1 | 4.2 |
| Female | 8.18 | ¹ 60.0 | ¹ 40.5 | 10.2 | 2.0 |
| Rural farm | | | | | |
| Both sexes | 89.6 | 83.6 | 62.5 | 28.1 | 5.8 |
| Male | 90.6 | 85.o | 67.3 | 31.4 | 8.5 |
| Female | 88.5 | ¹79∙7 | 53.2 | 22.7 | 2.1 |
| White | | | | | |
| Both sexes | 76.o | 56.8 | 39.5 | 10.0 | 4.4 |
| Male | 72.0 | 62.9 | 39.8 | 22.4 | 5.7 |
| Female | 79-5 | 49.3 | 39. 0 | 15.1 | 2.9 |
| Non-white | | | | | |
| Both sexes | 89.9 | 80,2 | 55.6 | 19.4 | 5.5 |
| Male | 93.8 | 8.18 | 57.6 | 20.2 | 6.6 |
| Female | 84.9 | ¹ 76.9 | 52.5 | 18.4 | 4.6 |

¹ Percentages computed where base is less than 100,000; these percentages are subject to relatively large sampling errors

native white classes are literate that the enumerators acquire the habit of returning them as such without the formality of an inquiry and in that way some isolated cases of illiteracy may fail to be reported. On the other hand, in the case of the Negroes the opposite assumption may sometimes be made by white enumerators, while in the case of the foreign-born, inability to read or write English may sometimes be taken as constituting illiteracy, although the instructions make it clear that ability to write any language is literacy.

'There is, however, no test whatever as to the degree of accuracy of the returns of illiteracy. Only careful re-enumeration of selected areas would furnish any definite evidence as to the direction or the amount of error. That a considerable margin of error exists in some cases, however, is rendered highly probable by a comparison of the returns for neighbouring countries or other localities where conditions are similar, and particularly by a comparison of the returns made by individual enumerators working in adjoining communities or parts of the same community. For the United States as a whole and for areas such as states or cities of any considerable size, the figures are probably nearly enough accurate to furnish a sound basis for judgment as to the relative illiteracy of different classes of the population, of persons in different age groups, and of males as compared with females. Beyond question comparisons between different censuses show the general tendencies with substantial accuracy. Too much dependence should not, however, be placed upon comparisons between the returns for small areas.' (Census of 1910, 'Population', Vol. I, p. 1185.)

As for the sample survey of 1947, which was based on a sample consisting of about 25,000 households in 68 areas of 42 states and the district of Columbia, the Census Bureau noted that the resulting estimates for the country as a whole 'are subject to sampling variability which may be relatively large in cases where the estimates are small. For example, the total number of illiterates in October 1947 was estimated at 2,838,000. The chances are about 19 out of 20 that a complete census would have yielded a figure between 2,117,000 and 3,559,000'.

Furthermore, as noted in the Census Bureau report, 'the reliability of an estimated percentage depends upon both the size of the percentage and the size of the total on which it is based. Small estimated percentages and estimated percentages having a small base are subject to relatively large sampling variability. For example, an estimated 3 per cent of all males 14 years old and over were illiterate in October 1947. The chances are about 19 out of 20 that a complete census would have yielded a figure between 2.3 and 3.7 per cent'. (Illiteracy in the United States, October 1947, p. 6.)

YUGOSLAVIA: 1900-48

The following analysis is based almost entirely on material extracted, with the permission of the author, from an article by Milan Babič on 'Literacy Statistics in Yugoslavia', published by the Federal Statistical Office in the *Statistička Revija* (Statistical Review), Vol I. No. 2, July 1951. The analysis on comparative rates of progress, shown in Table 157, differs from the conclusions of Mr. Babič in his article, owing to the use of different methods of computing a measure of progress.

HISTORICAL NOTE

Before the first world war, the territory of present-day Yugoslavia belonged to different States: Serbia, Montenegro, Turkey, Austria-Hungary. It is not possible to reconstruct historic data on literacy for the territories of the present Yugoslav People's Republics. Nevertheless, some literacy figures can be obtained for certain territorial units of the old States, and presented for comparison with data from the censuses taken in Yugoslavia in 1921, 1931 and 1948.

Even in these three censuses, however, the territory covered has not been the same. Northern Dalmatia, with some 300,000 inhabitants, was not included in the 1921 census. Territories added to Yugoslavia after the second world war were, of course, not included in the two previous censuses.

Another difficulty arises from the fact that the available data on literacy from the three censuses of Yugoslavia are not the same in details such as age classification or distribution of the illiterate population by districts or by national groups. Despite these shortcomings, an attempt is made to present, for the country as a whole, such data on literacy from the respective censuses as will help to give an indication of the progress achieved in Yugoslavia since 1900 in the reduction of illiteracy among its population.

ILLITERACY IN THE TOTAL POPULATION

The extent of illiteracy in 1900, among the population 7 years old and over, in the territories included in present-day Yugoslavia is estimated at 59.7 per cent for both sexes, 52.5 per cent for the male population, and 67 per cent for the female. This estimate

is based on an analysis of literacy figures for the various territories taken from the censuses of the old States as given in Table 153.

TABLE 153. Estimated percentage of illiteracy in the population of present-day Yugoslavia, 7 years old and over, by territories of former States: 1900

| T | Percentage of illiteracy | | | | |
|---------------------------------|--------------------------|-------|--------|--|--|
| Territory | Both sexes | Male | Female | | |
| Kingdom of Serbia | 79.0 | 66.2 | 92.6 | | |
| Batcha and Banat ¹ | 34.5 | 27.2 | 41.7 | | |
| Croatia and Slavonia | 54.4 | 46.8 | 61.9 | | |
| Istria ² | 52.7 | 47.6 | 58.2 | | |
| Dalmatia | 72.2 | 64.2 | 80.4 | | |
| Slovenia ³ | *18.2 | *17.2 | *19.2 | | |
| Bosnia-Herzegovina ⁴ | 87.8 | 82.9 | 93.4 | | |
| Total | *59·7 | *52.5 | *67.0 | | |

Based on data for the former districts of Batch-Bodrog and Torontál of Hungary, which correspond roughly in size and level of literacy to the territory actually ceded by Hungary.

From the census of 1921, literacy data are available only for the population 6 years old and over, or, by excluding the age group 6-11, for the population 12 years old and over. For 1931, the data relate to the population 11 years old and over; and for 1948, the population 10 years old and over. A comparison of the percentages of illiteracy for each sex at these respective age levels for 1921, 1931 and 1948, are given in Table 154.

TABLE 154. Percentage of illiteracy in the population of Yugoslavia 12, 11, and 10 years old and over, by sex: 1921-48

| Census | | Percentage of illiteracy | | | |
|--------|-------------------|--------------------------|------|--------|--|
| year | Age level | Both sexes | Male | Female | |
| 1921 | 12 years and over | 50.5 | 40.3 | 60.0 | |
| 1931 | 11 years and over | 44.6 | 32.3 | 56.4 | |
| 1948 | 10 years and over | 25.4 | 15.4 | 34.4 | |

² That part of Istria which was added to the People's Republic of Croatia after the second world war.

⁸ Estimated figures, relating to population 11 years old and over.

⁴ Data from the census of 1910, relating to population 8 years old and over.

ILLITERACY IN THE DIFFERENT PEOPLE'S REPUBLICS

Comparative data on the reduction of illiteracy in the different People's Republics are available only for 1931 and 1948. Table 155 gives the number and percentage of illiterates in the population 11 years old and over in 1931, and of the population 10 years old and over in 1948.

TABLE 155. Number and percentage of illiterate persons in Yugoslavia and the different People's Republics: 1931 and 1948

| D1 1 | 1931 (pop. 11 | years and over) | 1948 (pop. 10 years and over) | | |
|----------------------|--------------------|--------------------------|-------------------------------|--------------------------|--|
| People's Republic | No. of illiterates | Percentage illiterate | No. of illiterates | Percentage illiterate | |
| Yugoslavia | 4 408 471 | 44.6 | 3 162 980 | 25.4 | |
| Serbia | 1 941 221 | 46.9 | I 404 597 | 26.8 | |
| Croatia | 777 896 | 31.5 | 477 563 | 15.6 | |
| Slovenia | 47 464 | $5 \cdot 5$ | 27 477 | 2.4 | |
| Bosnia- | | | | | |
| Herzegovina | 1 061 439 | 70.0 | 834 799 | 44.9 | |
| Macedonia | 439 479 | 67.5 | 344 295 | 40.4 | |
| Montenegro | 140 972 | 56. i | 74 249 | 26.4 | |

Table 156 gives the percentage of illiteracy by sex for each People's Republic, of the population 11 years old and over in 1931, and of the population 10 years old and over in 1948. It will be noted that the percentage of illiteracy is highest in the People's Republic

Table 156. Percentage of illiteracy in the population of Yugoslavia and the different People's Republics, by sex: 1931 and 1948

| | | Percentage of illiteracy | | | | | |
|-------------|---------------|--------------------------|-------------|---------------|------------------------------|--------------|--|
| People's | 1931 (р | op, 11 year | s and over) | 1948 (p | 1948 (pop. 10 years and over | | |
| Republic | Both sexes | Male | Female | Both sexes | Male | Female | |
| Yugoslavia | 44.6 | 32.3 | 56.4 | 25.4 | 15.4 | 34.4 | |
| Serbia | 46.9 | 30.6 | 62.4 | 26.8 | 15.0 | 37.6 | |
| Croatia | 31.5 | 22.5 | 39.8 | 15.6 | 9.2 | 21.0 | |
| Slovenia | $5\cdot 5$ | $5 \cdot 3$ | 5.8 | 2.4 | 2.4 | 2.5 | |
| Bosnia- | | | | | | | |
| Herzegovina | 70.0 | 56.6 | 84.0 | 44.9 | 28.7 | $59 \cdot 3$ | |
| Macedonia | 67.5 | 53.3 | 81.7 | 40.4 | 27.0 | 53.9 | |
| Montenegro | 56.1 | 34.2 | 77.3 | 26.4 | 13.8 | 37.1 | |

of Bosnia-Herzegovina, followed by Macedonia, Serbia, Montenegro, Croatia and Slovenia in that order.

In terms of relative progress of literacy between 1931 and 1948, the highest rate was achieved by Slovenia, followed in order by Montenegro, Croatia, Bosnia-Herzegovina, Serbia and Macedonia.

It may be observed that, although the reduction in percentage of illiteracy was greater in most cases among the female population, the relative rate of progress was higher among the male population during this period both in Yugoslavia as a whole and in each of the People's Republics except Slovenia, where the female population had a slight advantage over the male.

TABLE 157. Reduction of illiteracy in Yugoslavia and the different People's Republics: 1931-48

| People's Republic | Reduction in percentage of illiteracy 1931-48 | | | Average decennial rate of progress | | |
|----------------------|--|------|-------------|------------------------------------|------------|--------|
| | Both sexes | Male | Female | Both sexes | Male | Female |
| | | | | % | % | % |
| Yugoslavia | 19.2 | 16.9 | 22.0 | 28 | <i>3</i> 5 | 25 |
| Serbia | 20.1 | 15.6 | 24.8 | 28 | 34 | 26 |
| Croatia | 15.9 | 13.3 | 18.8 | 34 | 41 | 31 |
| Slovenia Bosnia- | 3.1 | 2.9 | $3 \cdot 3$ | 39 | 37 | 39 |
| Herzegovina | 25. I | 27.9 | 24.7 | 23 | 33 | 19 |
| Macedonia | 27.1 | 26.3 | 27.8 | 26 | 33 | 22 |
| Montenegro | 29.7 | 20.4 | 40.2 | 36 | 41 | 35 |

ILLITERACY IN DIFFERENT AGE GROUPS

A comparison of percentages of illiteracy by broad age groups from the censuses of 1921, 1931, and 1948 shows that substantial progress has been achieved in reduction of illiteracy in all the given age groups, in both the male and the female populations. Data for the first age group are not strictly comparable, since the age limits are different for each census. It is significant that the age group 15-24 registered the most rapid progress between 1931 and 1948, indicating that a new generation of children were growing up with better educational advantages than the previous one.

The fact that, in 1948, there were still 15 per cent of children

10-14 years old reported as illiterate is an indication that the laws of compulsory schooling for children between the ages of 7 and 13 had not yet been enforced effectively. According to school statistics for the beginning of the school year 1948-49, only 75 per cent of children 7-13 years old were enrolled in school. The percentage of school attendance is 84.7 for children 7-10 years old and 62.7 for children 11-13 years old.

TABLE 158. Reduction of illiteracy in the population of Yugoslavia, by sex and broad age groups: 1921-48

| Sex and | | Percentage of illiteracy | , |
|--------------------|---------------------|--------------------------|--------------|
| age group | 1921 | 1931 | 1948 |
| Both sexes | | | |
| 10 years and over | ¹ 50.5 | ² 44.6 | 25.4 |
| 10-14 | $^{3}47\cdot 4$ | 4 33·4 | 15.4 |
| 15-24 | 41.8 | $37 \cdot 7$ | 12.6 |
| 25-59 | 51.4 | 45.2 | 28 .9 |
| 60 and over | 69.2 | 65.1 | 52.5 |
| Male | _ | | |
| 10 years and over | 1 40.3 | ² 32.3 | 15.4 |
| 10-14 | ³ 40.5 | 4 24 . I | 11.0 |
| 15-24 | 31.3 | 26.4 | 6.7 |
| 25-59 | 39.5 | 31.2 | 16.5 |
| 60 and over | 63.0 | 56.8 | 38 .9 |
| Female | | - | |
| 10 years and over | ¹ 60.0 | ² 56.4 | 34.4 |
| 10-14 | ³ 54 · 7 | 443.2 | 20.1 |
| 15-24 | 51.9 | 49.3 | 18.1 |
| 25-59 | 61.8 | 58.0 | 39.7 |
| 50 and over | 75 • 4 | 72.9 | 62.9 |
| .2 years and over. | | | |
| 11 years and over. | | | |
| 8 12-14. | | | |
| 4 11-14. | | | |

ILLITERACY BY NATIONAL GROUPS

The census of 1948 gives population and literacy figures by nationality. Excluding certain small minorities which constitute altogether less than 0.5 per cent of the total population, Table 159 shows the percentage of illiteracy, by sex, for each of the nationalities according to the 1948 census.

TABLE 159. Percentage of illiteracy in the population of Yugoslavia, 10 years old and over by national groups and by sex: 1948

| National | Percentage | Perc | entage of illit | eracy |
|--------------------|------------------------|--------------|-----------------|--------|
| group | of total population | Both sexes | Male | Female |
| All groups | 100.0 | 25.4 | 15.4 | 34.4 |
| Serbs | 41.5 | 27.7 | 14.1 | 40.2 |
| Croats | 24.0 | 18.1 | 11.2 | 24.0 |
| Slovenes | 9.0 | 2.3 | 2.3 | 2.3 |
| Macedonians | 5.1 | 30.2 | 18.7 | 42.0 |
| Montenegrins | 2.7 | 24. ĭ | 11.0 | 35.5 |
| Autonomous Moslems | 5.1 | 54.6 | 36.6 | 70.6 |
| Bulgars | 0.4 | 19.9 | 6.8 | 33.1 |
| Czechs | 0.2 | 3.0 | 2.4 | 3.5 |
| Slovaks | 0.5 | 4.8 | 4.2 | 5.3 |
| Shiptars | 4.8 | $73 \cdot 7$ | 55.9 | 92.5 |
| Hungarians | 3.1 | 8.0 | 6.0 | 9.6 |
| Germans | 0.4 | 6.2 | 5.9 | 6.4 |
| Rumanians | 0.4 | 17.6 | 11.2 | 23.2 |
| Valaques | 0.7 | 38.2 | 22.7 | 51.6 |
| Italians | 0.5 | 6.9 | 4.9 | 8.7 |
| Turks | 0.6 | 63.9 | 47.4 | 80.7 |
| Gypsies | 0.5 | 74.0 | 61.9 | 85.7 |

CRITERION OF LITERACY

In none of the censuses of Yugoslavia is there found any statement on the criterion of literacy, except that in the census of 1921, the enumerators were instructed to enter as illiterate all persons who could only sign their names but who could neither read nor write. It is understood that the percentage of illiteracy given in the present study refer, in fact, to persons who could not read, thus excluding those who could read but not write.

The extent of semi-literacy in Yugoslavia, however, is extremely small. According to the census reports, there were in 1921 about one per cent of the population 12 years old and over who could read but not write. In 1931 there were about 0.6 per cent in the population 11 years old and over. These percentages have not been included in the percentages of illiteracy given above, but in any case it would have made very little difference to the results of the analysis.

SOURCES OF THE DATA

The article from which the above analysis been has extracted was published in the *Statisticka Revija* (Statistical Review) for July 1951. The following sources of data, insofar as they related to censuses of 1900 and later, were indicated by the author.

- Statisticka Kraljevine Srkije (Statistics of the Kingdom of Serbia), Vol. XXIV (Belgrade, 1905).
- A Magyars szent korona orsgzagainak 1900, évi Nepszamlalasa. (Budapest, 1907).
- Volkszählung in den Ländern der ungarischen heil. Krone im Jahre 1900, Zehnter Teil. (Budapest, 1909.)
- A Magyar szent korona orgszagainak 1910. Otodile Rész. Részeletes demografia. (Budapest, 1916.)
- Recensement Général de la Population des Pays de la Sainte Couronne Hongroise en 1910, sixième partie. (Budapest, 1924.)
- Popis žitelsjtva od 31 prosinca 1910 u Kraljevinama Hrvatskoj i Slavoniji (Census of the population at 31 December 1910, in the Kingdoms of Croatia and Slavonia). (Zagreb, 1914.)
- Statistische Monatschrift, Neue Folge XVIII Jahrgang (Brünn, 1913) 'Der Bildungsgrad der Bevölkerung in den österr. Alpen... und Karstländern nach den Ergebnissen der letzten vier Volkszählungen 1880-1910', p. 769, ff.
- Oesterreichische Statistik, LXIII Band, 3 Heft, I.(Wien, 1903.)
- Neue Folge Oesterreichische Statistik, I Band, 2 Heft. (Wien, 1914.)
- Rezultati popisa žiteljstva u Bosni i Hercegovini od 10 oktobra 1910 (Results of the census of population in Bosnia-Herzegovina at 10 October 1910). (Sarajevo, 1912.)
- Statističko Godišnjak, 1929 (Statistical Review, 1929). (Belgrade, 1932.)
- Definitivni rezultati popisa stanovništva od 31-III-1931 (Final results of the census of population of 31 March 1931). Vol.III. (Belgrade, 1938.)
- Statisticki bilten 1, 2 (Statistical Bulletin, 1 and 2). (Belgrade, 1950.)

CHAPTER III

SOME INTERNATIONAL COMPARISONS

BASIS OF COMPARISONS

It must be emphasized that percentages of illiteracy for different countries, even when computed on the same basis, are not directly comparable, for reasons discussed in the introductory chapter. But relative rates of progress in the reduction of illiteracy, expressed in terms of average decennial rates, should be more suitable for international comparison. The average decennial rate of progress is the percentage rate of reduction of the initial illiteracy rate in a period of 10 years. Thus where a country or a population group starts with an illiteracy rate of 50 per cent, and at the end of a decade has reduced it to 45 per cent, it is said to have shown a decennial rate of progress of 10 per cent. Or if the illiteracy rate is reduced from 50 to 30 per cent in 20 years, the average decennial rate of progress is about 23 per cent. The progress of literacy in the 26 countries will now be examined by this method of comparison to see what tentative conclusions may be drawn from the present study.

REDUCTION OF ILLITERACY IN THE TOTAL POPULATION

Table 160 shows the reduction of illiteracy in the total population 10 years old and over, in 18 countries, for various periods between 1899 and 1948. The following countries have shown average rates of progress of less than 10 per cent per decade for each of the intercensal periods between the dates given: Burma (1901-31), Chile (1930-40), Colombia (1928-38), Cuba (1907-19), Egypt (1907-37), India (1901-31), Mexico (1900-30), Portugal (1900-30).

Countries showing average decennial rates of progress between 10 and 24 per cent are: Bulgaria (1900-26), Chile (1907-20), Colombia (1918-28), Cuba (1919-43), France (1926-31; 1936-46), Greece (1907-28), Italy (1901-11; 1921-31), Mexico (1930-40),

Philippines (1939-48), Portugal (1930-40), Spain (1900-20), Turkey (1935-45), United States (1910-20), Yugoslavia (1921-31). Rates of progress of 25 per cent or more are shown for the following countries and periods: Bulgaria (1926-34), Canada (1921-31), Chile (1920-30), Cuba (1899-1907), France (1901-26; 1931-36), Italy (1911-21), Spain (1920-40), United States (1900-10; 1920-40), Yugoslavia (1931-48).

Table 160. Reduction of illiteracy in the population 10 years old and over, in 18 selected countries, by various intercensal periods since about 1900

| Country | Percentage (| of illiteracy | Reduction | Average |
|----------------------|------------------------|---------------------|--|----------------------------------|
| and period | At beginning of period | At end of period | in percentage of illiteracy ¹ | decennial rate of progress |
| | | | | |
| Bulgaria | | | | % |
| 1900-34 | 70.4 | 31.4 | <i>39.0</i> | 21 |
| 1900-05 | 70.4 | 65.5 | $4 \cdot 9$ | 13 |
| 1905-10 | 65.5 | 57.8 | 7.7 | 22 |
| 1910-20 | 57.8 | 46.7 | 11.1 | 19 |
| 1920-26 | 46.7 | 39.7 | 7.0 | 24 |
| 1926-34 | 39.7 | 31.4 | 8.3 | 25 |
| Burma | | | | |
| 1901-31 | 71.6 | 59.8 | 11.8 | 6 |
| 1901-11 | 71.6 | 70.6 | 1.0 | . I |
| 1911-21 | 70.6 | 64.3 | 6.3 | 9 |
| 1921-31 | 64.3 | 59.8 | 4.5 | 7 |
| Canada | | | | |
| 1921-31 | 5·7 | $4 \cdot 3$ | 1.4 | 25 |
| Chile 2 | | | | _ |
| 1907-40 | 49.9 | 26.4 | 23.5 | 18 |
| 1907-20 | 49.9 | 36.9 | 13.0 | 21 |
| 1920-30 | 36.9 | 24.4 | 12.5 | 34 |
| 1930-40 ³ | 24.4 | 26.4 | + 2.0 | • |
| Colombia 2 | | | | |
| 1918-38 | *57.6 | 44.2 | 13.4 | 12 |
| 1918-28 | *57.6 | 48.4 | 9.2 | 16 |
| 1928-38 | 48.4 | 44.2 | 4.2 | 9 |
| Cuba 4 | | | | _ |
| 1899-1943 | <i>5</i> 6.9 | 23.6 | <i>33</i> · <i>3</i> | 18 |
| 1899-1907 | 56.9 | 43.6 | 13.3 | 28 |
| 1907-19 | 43.6 | 38.7 | 4.9 | 9 |
| 1919-31 | 38.7 | 28.2 | 10.5 | 23 |
| 1931-43 | 28.2 | 23.6 | 4.6 | 14 |

PROGRESS OF LITERACY

| Country | Percentage | of illiteracy | Reduction | Average |
|--|------------------------|---------------------|--|----------------------------------|
| and period | At beginning of period | At end of period | in percentage of illiteracy ¹ | decennial rate of progress |
| Egypt | | | | % |
| 1907-37 | 92.7 | 85.2 | 7.5 | 3 |
| 1907-17 | 92.7 | 91.2 | 1.5 | 2 |
| 1917-27 | 91.2 | 85.9 | 5.3 | 6 |
| 1927-37 | 85.9 | 85.2 | 0.7 | . 1 |
| France | ~3.3 | ٠,٠- | 0., | - |
| 1901-46 | 16.5 | 3.4 | 13.1 | 30 |
| 1901-11 | 16.5 | 11.9 | 4.6 | 28 |
| | | 8.2 | | |
| 1911-21 | 11.9 8.2 | 6.1 | 3.7 | 31 |
| 1921-26 | | | 2.1 | 45 |
| 1926-31 | 6. ı | 5.3 | 0.8 | 24 |
| 1931-36 | $5 \cdot 3$ | 4.0 | 1.3 | 43 |
| 1936-46 | 4.0 | $3 \cdot 4$ | 0.6 | 15 |
| Greece | | | | |
| 1907-28 | 60.5 | 41.9 | • | • |
| 1907-20 5 | 6o.5 | 46. ı | 14.4 | 19 |
| 1920-28 ⁶ India ⁷ | 52.0 | 41.9 | 10.1 | 24 |
| 1901-31 | 93.8 | 90.9 | 2.9 | I |
| 1901-11 | 93.8 | 93.0 | 0.8 | r |
| 1911-21 | 93.0 | 91.7 | 1.3 | - I |
| 1921-31 | 91.7 | 90.9 | 0.8 | ī |
| Italy 2 | | 90.9 | 0.0 | - |
| 1901-31 | 48.2 | 21.6 | • | • |
| 1901-11 | 48.2 | 37.2 | 11.0 | 23 |
| 1911-218 | 37.2 | 27.5 | $9 \cdot 7$ | 26 |
| 1921-31 9 | 26.8 | 21.6 | 5.2 | 19 |
| Mexico | | | _ | |
| 1900-40 | 77·7 | <i>54.0</i> | 23.7 | 9 |
| 1900-10 | 77 - 7 | 72.3 | 5.4 | 7 |
| 1910-21 | 72.3 | 66.2 | 6. i | Ŕ |
| 1921-30 | 66.2 | 61.5 | 4.7 | 8 |
| 1930-40 | 61.5 | 54.0 | 7.5 | 12 |
| Philippines | J | 01 | , 5 | |
| 1939-48 | 51.2 | 38.7 | 12.5 | 24 |
| Portugal 2 | 3 | - , | 3 | - |
| 1900-40 | 73 · 4 | 50.4 | 23.0 | <i>9</i> 6 |
| 1900-11 | 73.4 | 68.9 | 4 ·5 | 6 |
| 1911-20 | 68.9 | 65.2 | 3.7 | 6 |
| 1920-30 | 65.2 | 60.2 | 5.0 | 8 |
| 1930-40 | 60.2 | 50.4 | 9.8 | 16 |

| Country | Percentage o | of illiteracy | Reduction in | Average decennial |
|------------------|------------------------|---------------------|--|----------------------|
| and period | At beginning of period | At end of period | percentage of illiteracy ¹ | rate of progress |
| Spain | | | | % |
| 1900-40 | 58.7 | 23.2 | 35.5 | 21 |
| 1900-10 | 58.7 | 52.2 | 6.5 | ΙΙ |
| 1910-20 | 52.2 | 44.0 | 8.2 | 16 |
| 1920-40 | 44.0 | 23.2 | 20.8 | 27 |
| Turkey | | | | |
| 1935 -4 5 | 79.6 | 69.5 | IO.I | 13 |
| United States | | | | |
| 1900-40 | 10.7 | *2.9 | *7.8 | 28 |
| 1900-10 | 10.7 | 7 · 7 | 3.0 | 28 |
| 1910-20 | 7.7 | 6.o | I • 7 | 22 |
| 1920-30 | 6.o | $4 \cdot 3$ | 1.7 | 28 |
| 1930-40 | $4 \cdot 3$ | *2.9 | *1.4 | 33 |
| Yugoslavia 2 | | | | |
| 1921-48 | $^{10}50.5$ | 25 · 4 | 25.I | 22 |
| 1921-31 | 10 50.5 | ¹¹ 44.6 | 5.9 | 12 |
| 1931-48 | ¹¹ 44.6 | 25.4 | 19.2 | 28 |

¹ A plus sign in this column indicates an increase of illiteracy.

Table 161 presents the data relating to the population 15 years old and over in 22 countries. This shows the countries grouped by their average decennial rates of progress as follows:

Less than 10 per cent: Brazil (1900-40), Burma (1901-31), Chile (1930-40), Egypt (1907-27), Honduras (1930-45), India (1901-31), Portugal (1911-30).

Between 10-24 per cent: Argentina (1895-1914), Belgium (1920-30), Bulgaria (1900-34), Chile (1907-20), Cuba (1899-1919), Greece (1907-28), Italy (1901-11; 1921-31), Mexico (1930-40), Portugal (1930-40), Spain (1900-20), Turkey (1935-45), United States (1910-20).

25 per cent and over: Argentina (1914-47), Belgium (1900-20), Canada (1921-31), Chile (1920-30), Finland (1900-30), Hungary (1920-41), Italy (1911-21), Philippines (1939-48), Spain (1920-40), United States (1920-30), Yugoslavia (1931-48).

² Criterion of literacy is 'ability to read'.

³ Apparent increase of illiteracy rate may be due to errors of enumeration or change of criterion.

⁴ Criterion of literacy is not uniform for different censuses.

⁵ Old boundaries, i.e., excluding territories added to Greece after the Balkan wars and the first world war.

⁶ New boundaries, i.e. according to the Treaty of Lausanne (1923).

⁷ Pre-partition India, i.e., including present-day Pakistan but not including Burma.

⁸ Old boundaries, i.e., excluding Venezia Tridentina and Venezia Giulia.

New boundaries, i.e., including Venezia Tridentina and Venezia Giulia.

¹⁰ Population 12 years old and over.

¹¹ Population 11 years old and over.

Table 161. Reduction of illiteracy in the population 15 years old and over, in 22 selected countries, by various intercensal periods since about 1900

| Country | Percentage of | illiteracy | Reduction | Average |
|------------------------|---------------------------|---------------------|--|----------------------------------|
| and period | At beginning of period | At end of period | in percentage of illiteracy ¹ | decennial rate of progress |
| Argentina ² | | | | % |
| 1895-1947 | <i>53 · 3</i> | 13.6 | <i>39</i> · <i>7</i> | 23 |
| 1895-1914 | $53 \cdot 3$ | 35.1 | 18.2 | 20 |
| 1914-47 | 35.1 | 13.6 | 21.5 | 25 |
| Belgium | | | | |
| 1900-30 | 19.6 | 5.9 | 13.7 | 33 |
| 1900-10 | 19.6 | 13.4 | 6.2 | 32 |
| 1910-20 | 13.4 | 7.8 | 5.6 | 42 |
| 1920-30 | 7.8 | 5.9 | 1.9 | 24 |
| Brazil | | | - | - |
| 1900-40 | 65.3 | 56. I | 9.2 | 4 |
| 1900-20 | 65.3 | 64.9 | 0.4 | ō |
| 1920-40 | 64.9 | 56. i | 8.8 | 7 |
| Bulgaria | | - | | • |
| 1900-34 | 73.6 | 35.1 | 38.5 | 20 |
| 1900-05 | 73.6 | 68.6 | 5.0 | 13 |
| 1905-10 | 68.6 | 62.2 | 6.4 | 18 |
| 1910-20 | 62.2 | 50.3 | 11.9 | 19 |
| 1920-26 | 50.3 | 42.9 | 7.4 | 23 |
| 1926-34 | 42.9 | 35.1 | 7.8 | 22 |
| Burma | | | · | |
| 1901-31 | 70.I | 57.6 | 12.5 | 6 |
| 1901-11 | 70. I | 68.6 | 1.5 | 2 |
| 1911-21 | 68.6 | 62.3 | $6.\overline{3}$ | 9 |
| 1921-31 | 62.3 | 57.6 | 4.7 | š |
| Canada | ŭ | 0, | • , | |
| 1921-31 | 6.3 | 4.7 | 1.6 | 25 |
| Chile ³ | · · | 1 , | | 3 |
| 1907-40 | 49.6 | 27.I | 22.5 | 17 |
| 1907-20 | 49.6 | 36.6 | 13.0 | 21 |
| 1920-30 | 36.6 | 25.3 | 11.3 | 31 |
| 1930-40 4 | 25·3 | 27.I | + 1.8 | |
| Cuba 5 | -5,5 | -/ | 1 | • |
| 1899-1919 | 55·2 | <i>36.6</i> | 18.6 | 19 |
| 1899-1907 | 55.2 | 45.4 | 9.8 | 22 |
| 1907-19 | 45.4 | 36.6 | 8.8 | 16 |
| Egypt | | Ü | | |
| 1907-27 | 92.8 | 86.6 | 6.2 | 3 |

SOME COMPARISONS

| Country | Percentage of | illiteracy | Reduction | Average decennial | |
|-----------------------|---------------------------|---------------------|--|----------------------|--|
| and period | At beginning of period | At end of period | in percentage of illiteracy ¹ | rate of progress | |
| Finland | | | | % | |
| 1900-30 | 61.2 | 15.9 | 45·3 | 36 | |
| 1900-10 | 61.2 | 44.7 | 16.5 | 27 | |
| 1910-20 | 44.7 | 30.1 | 14.6 | 33 | |
| 1920-30 | 30.1 | 15.9 | 14.2 | 47 | |
| Greece | • | | _ | | |
| 1907-28 | 63.o | 45 · I | • | • | |
| 1907-20 ⁶ | 63.0 | 48.6 | 14.4 | 18 | |
| 1920-28 7 | 54.7 | 45. I | $9.\overline{6}$ | 21 | |
| Honduras | 01, | | · | | |
| 1930-45 | 66.6 | 63.7 | 2.9 | 3 | |
| 1930-35 4 | 66.6 | 67.4 | + 0.8 | • | |
| 1935-40 | 67.4 | $65.\bar{3}$ | 2.1 | 6 | |
| 1940-45 | $65.\bar{3}$ | 63.7 | 1.6 | 5 | |
| Hungary 8 | | | | | |
| 1920-41 | 13.4 | 6.4 | 7.0 | 31 | |
| 1920-30 | 13.4 | 10.0 | 3.4 | 25 | |
| 1930-41 | 10.0 | 6.4 | $\bar{3}.\bar{6}$ | 36 | |
| India 9 | | • | _ | | |
| 1901-31 | 93.5 | 90.4 | 3.I | I | |
| 1901-11 | 93.5 | 92.7 | 0.8 | I | |
| 1911-21 | 92.7 | 91.4 | 1.3 | I | |
| 1921-31 | 91.4 | 90.4 | 1.0 | 1 | |
| Italy 3 | • • | | | | |
| 1901-31 | $49 \cdot 9$ | 23. I | • | • | |
| 1901-11 | 49.9 | 39.3 | 10.6 | 21 | |
| 1911-21 10 | 39.3 | 28.8 | 10.5 | 27 | |
| 1921-31 11 | 28.0 | 23.1 | 4.9 | 18 | |
| Mexico | | ū | | | |
| 1930-40 | 63.6 | 53.9 | $9 \cdot 7$ | 15 | |
| Philippines | 3 | 00 0 | • • | • | |
| 1939-48 | 52.3 | 40.0 | 12.3 | 26 | |
| Portugal ⁸ | 3 - 3 | • | 5 | | |
| 1911-40 | 69.1 | 52.3 | 16.8 | 9 | |
| 1911-20 | 69.1 | 65.3 | 3.8 | 6 | |
| 1920-30 | 65.3 | 60.5 | 4.8 | 7 | |
| 1930-40 | 60.5 | 52.3 | 8.2 | 14 | |
| Spain 12 | · · | 0 0 | | • | |
| 1900-40 | 58.9 | 23.6 | 35.3 | 20 | |
| 1900-40 | 58.9 | 52.2 | 6.7 | 11 | |
| 1910-20 | 52.2 | 43.7 | 8.5 | 16 | |
| 1920-40 | 43.7 | 23.6 | 20.1 | 27 | |
| Turkey | 49.1 | -3.5 | | / | |
| 1935-45 | 81.3 | 71.5 | 9.8 | 12 | |
| 1900°40 | 0 | 75 | J · - | | |

| Country and period | Percentage of | illiteracy | Reduction | Average |
|--------------------------|------------------------|---------------------|--|---------------------------------|
| | At beginning of period | At end of period | in percentage of illiteracy ¹ | decennia rate of progress |
| United-States | | | | % |
| 1910-30 | 8.2 | 4.8 | 3.4 | 23 |
| 1910-20 | 8.2 | $\hat{6}{5}$ | 1.7 | 21 |
| 1920-30 | 6.5 | 4.8 | 1.7 | 26 |
| Yugoslavia | | - | • | |
| 1931-48 | 46.2 | 27.I | 19.1 | 27 |

- ¹ A plus sign in this column indicates an increase of illiteracy.
- ² Population 14 years old and over.
- 3 Criterion of literacy is 'ability to read'.
- 4 Apparent increase in illiteracy rate may be due to errors of enumeration or change of criterion.
- ⁵ Criterion of literacy is 'able to read, or attending school'.
- Old boundaries, i.e., excluding territories added to Greece after the Balkan wars and the first world war.
- 7 New boundaries, i.e., according to the Treaty of Lausanne (1923).
- ⁸ Territory by the Trianon Treaty (1920).
- 9 Pre-partition India, i.e., including present-day Pakistan but not including Burma.
- 10 Old boundaries, i.e., excluding Venezia Tridentina and Venezia Giulia.
- 11 New boundaries, i.e., including Venezia Tridentina and Venezia Giulia.
- 12 Population 16 years old and over.

Taking the two lists together, it is seen that five of the countries—Brazil, Burma, Egypt, Honduras and India—have shown progress consistently below 10 per cent per decade. Another five countries—Chile, Colombia, Cuba, Mexico and Portugal—have shown similar rates of progress for certain periods covered by the present study. Ceylon too registered less than 10 per cent progress, during the period 1901-11, for the total population 5 years old and over, as did the Union of South Africa throughout the period 1904-46 for the Native population of all ages.

If the data for these 12 countries, presented in the preceding chapter, are further examined, it appears that in practically all cases where the rate of progress was less than 10 per cent per decade, the number of illiterate persons increased between censuses. This increase may occur at an average rate of up to 30 per cent per decade, as in the case of Chile between 1930 and 1940. The only cases in this group of countries where the number of illiterates decreased were Colombia (one per cent per decade) and Mexico (two per cent per decade).

TABLE 162. Increase or decrease in number of illiterates in countries and periods where average decennial rate of progress was under 10 per cent

| Country, age level | Number of | | Per cent increase or decrease in No. of illiterates | |
|-----------------------|------------------------|---------------------|---|-----------------------|
| (years) and period | At beginning of period | At end of period | During period | Average per decade |
| Brazil (15 +) | | | | |
| 1900-40 | 6 372 | 13 269 | + 108 | + 20 |
| Burma (10 +) | 0. | | | |
| 1901-31 | 5 451 | 6 480 | + 19 | + 6 |
| Ceylon (5 +) | | - | | |
| 1901-11 | 2 154 | 2 416 | + 12 | + 12 |
| Chile $(10 +)$ | | | | |
| 1930-40 | 746 | 971 | + 30 | + 30 |
| Colombia (10 +) | | | | |
| 1928-38 | 2 718 | 2 699 | — т | — т |
| Cuba (10 +) | | | | |
| 1907-19 | 644 | 7 ⁸ 5 | + 22 | + 18 |
| Egypt $(10 +)$ | | | | |
| 1907-37 | 7 277 | 9 885 | + 36 | + 11 |
| Honduras (15 +) | | | | |
| 1930-45 | 327 | 446 | + 36 | + 23 |
| India $(10 +)$ | | | | |
| 1901-31 | 194 161 | 218 754 | + 13 | + 4 |
| Mexico (10 +) | | | | |
| 1900-30 | 7 636 | 7 224 | — 5 | <u> </u> |
| Portugal (10 +) | | | | |
| 1900-30 | 3 o66 | 3 189 | + 4 | + 1 |
| Union of S. Africa | | | | |
| (Native, all ages) | | | | |
| 1911-46 | 3 743 | 6 049 | +62 | + 15 |
| Note: 5 +, 10 +, 15 + | is equivalent to 5 y | ears old and ove | er, etc. | |

It would thus seem possible to conclude, from the data analysed in this study, that an average rate of progress of less than 10 per cent per decade is not sufficient to keep the number of illiterates in a country from increasing with the growth of the total population. In fact, even with a rate of progress of more than 10 per cent, there is no guarantee that the number of illiterates would not actually increase at the same time as the percentage of illiteracy was being reduced.

Consider, for example, that in Argentina (1895-1914) the

percentage of illiteracy was reduced from 53.3 to 35.1 making an average decennial rate of progress of about 20 per cent. Yet the number of illiterates, 14 years and over, had increased during that period by 460,000 (or about 17 per cent per decade since 1895).

TABLE 163. Increase or decrease in number of illiterates in countries and periods where average decennial rate of progress was between 10 and 24 per cent

| Country, age level | Number of (thousa | inds) | Per cent increase or decrease in No. of illiterates | | |
|------------------------------|---------------------------|---------------------|---|-----------------------|--|
| (years) and period | At beginning of period | At end of period | During period | Average per decade | |
| Argentina (14 +) | | | | | |
| 1895-1914 | 1 306 | ı 766 | + 35 | + 17 | |
| Belgium (15 +) | J | • | . 55 | | |
| 1920-30 | 435 | 369 | 15 | 15 | |
| Bulgaria (15 +) | 100 | 3 3 | 3 | -3 | |
| 1900-34 | 1 649 | I 377 | — 16 | 5 | |
| Ceylon (5 +) | | 5., | | Ü | |
| 1911-46 | 2 416 | 2 443 | - - I | + 0.3 | |
| Chile (10 +) | - | - 10 | | . 3 | |
| 1907-20 | I 202 | 1 024 | — 15 | 12 | |
| Colombia (10 +) | | • | J | | |
| 1918-28 | 2 216 | 2 718 | + 23 | + 23 | |
| Cuba (10 +) | | • | | , 3 | |
| 1919-43 | 785 | 789 | + I | + 0.3 | |
| Greece (10 +) | | | | . 3 | |
| 1907-20 | 1 159 | 1 008 | - 13 | 10 | |
| 1920-28 | 1 961 | 1 962 | $+$ $\overset{\circ}{\mathbf{o}}$ | + o.ı | |
| Italy $(10 +)$ | | | | | |
| 1901-11 | 11 910 | 9 843 | — 17 | <u> </u> | |
| 1921-31 | 8 228 | 6 948 | — 16 | — 16 | |
| Mexico (10 +) | | | | | |
| 1930-40 | 7 224 | 7 544 | + 4 | + 4 | |
| Philippines (10 +) | | | - | • | |
| 1939-48 | 5 574 | 5 024 | 1o | II | |
| Portugal (10 +) | | | | | |
| 1930-40 | 3 189 | 2 948 | 8 | 8 | |
| Spain (10 +) | | | | | |
| 1900-20 | 8 409 | 7 342 | 13 | 7 | |
| Turkey (10 +) | | | | • | |
| 1935-45 | 8 824 | 9 542 | + 8 | + 8 | |
| United States (10 +) | - | - - | | | |
| 1910-20 | 5 516 | 4 932 | I I | <u> </u> | |
| Note: 10 +, 14 +, 15 + is ea | quivalent to 10 yes | ars old and ov | er, etc. | | |

Similarly, Table 163 shows that the number of illiterates had also increased in each of the following countries and periods, where the average rate of progress was between 10 and 24 per cent per decade: Ceylon (1911-46), Colombia (1918-28), Cuba (1919-43), Greece (1920-28), Mexico (1930-40), Turkey (1935-45).

On the other hand, in the rest of the countries and periods shown in Table 163, the number of illiterates had decreased, the percentage rate of decrease per decade ranging from five in Bulgaria (1900-34) to 17 in Italy (1901-11).

As for those countries and periods where the average decennial rate of progress was 25 per cent or more, there is no question about the

TABLE 164. Decrease in number of illiterates in countries and periods where average decennial rate of progress was 25 per cent or more

| Country, age level | Number of (thous | | Per cent decrease in No. of illiterates | | |
|---------------------------|------------------------|---------------------|--|-----------------------|--|
| (years) and period | At beginning of period | At end of period | During period | Average per decade | |
| Argentina (14 +) | | | | | |
| 1914-47 | 1 766 | 1 542 | 13 | 4 | |
| Belgium (15 +) | | | | | |
| 1900-20 | 895 | 435 | 51 | 30 | |
| Bulgaria (10 +) | , | | | | |
| 1926-34 | 1 637 | ¹ 457 | II | 14 | |
| Canada (10 +) | | | | | |
| 1921-31 | 383 | 348 | 9 | 9 | |
| Chile (10 +) | | _ | | | |
| 1920-30 | 1 024 | 746 | 27 | 27 | |
| Cuba $(10 +)$ | _ | _ | | | |
| 1899-1907 | 691 | 644 | 7 | 8 | |
| Finland $(15 +)$ | _ | | | | |
| 1900-30 | 1 o87 | 377 | 65 | 30 | |
| France (10 +) | _ | | • | | |
| 1901-46 | 5 128 | 1 115 | 78 | 35 | |
| Hungary $(15 +)$ | | | | | |
| 1920-41 | 744 | 437 | 41 | 23 | |
| Italy (10 +) | _ | | • | 0 | |
| 1911-21 | 9 843 | 8 112 | 18 | 18 | |
| Spain (10 +) | | | | | |
| 1920-40 | 7 342 | 4 835 | 34 | 19 | |
| United States (10 +) | | _ | | | |
| 1900-10 | 6 180 | 5 516 | 11 | II | |
| 1920-40 | 4 932 | 3 249 | 34 | 19 | |
| Note: 10+, 14+, 15+ is ed | quivalent to 10 y | ears old and | over, etc. | | |

reduction in number as well as in percentage of illiterates, as may be seen from Table 164.

From the foregoing it may be concluded that an average decennial rate of progress of 25 per cent or more seems to ensure an actual reduction in the number of illiterates in the total population.

DIFFERENTIAL RATES OF PROGRESS, BY SEX

It appears from the data presented in this study that the illiteracy rate for the female population is generally higher than for the male. However, there are a few exceptions. In Canada, throughout the period 1921-31, the male illiteracy rate was slightly higher than the female. The same was true of the European or white population in the Union of South Africa, between 1904 and 1918.

In Cuba and the United States, the female population started with an illiteracy rate higher than the male, but eventually surpassed the male population in literacy.

The relative rate of progress of the female population is more often lower than that of the male population, and the difference is less often in the other direction. In a few cases, progress seems to have been at an approximately equal rate between the two sexes. Such is the record of the following countries during the periods specified in each case: Brazil (1920-40), Chile (1907-40), Colombia (1918-38), Finland (1900-30), Hungary (1920-41), India (1901-31), Mexico (1900-40), Union of South Africa (European, 1904-18; Native, 1904-46).

TABLE 165. Reduction of illiteracy among the male and female population in 25 selected countries, for various periods since about 1900

| Country, age level (years) and period | Sex | Percentage of illiteracy | | Reduction | Average |
|--|--------|---------------------------|---------------------|-----------------------------------|----------------------------------|
| | | At beginning of period | At end of period | in percentage of illiteracy | decennial rate of progress |
| Belgium (15 +) | | | | | % |
| 1900-30 | Male | 17.1 | 5.5 | 11.6 | 31 |
| | Female | 22.0 | 6.4 | 15.6 | 34 |
| Brazil (15 +) | | | | -3 | 34 |
| 1920-40 | Male | 57.1 | 49.7 | 7.4 | 7 |
| -3 4- | Female | 72.8 | 62.4 | 10.4 | 7 |
| Bulgaria (10 +) | | , | | 19.4 | , |
| 1900-34 | Male | 54.6 | 19.5 | 35.1 | 26 |
| 1900 94 | Female | 87.0 | 43.3 | 43.7 | 19 |

SOME COMPARISONS

| Country, age level | | Percentage o | | Reduction in percentage of illiteracy | Average decennial rate of progress |
|---------------------------|-------------------|------------------------|---------------------|--|---|
| (years) and period | Sex | At beginning of period | At end of period | | |
| Burma (10 +) | | | | | % |
| 1901-31 | Male | 50.2 | 38.6 | 11.6 | 8 |
| U U | Female | $94 \cdot 3$ | 82.5 | 8.11 | 4 |
| Canada $(10 +)$ | | | · | _ | |
| 1921-31 | Male | 6.4 | 4.8 | 1.6 | 25 |
| | Female | 5.0 | 3.6 | 1.4 | 28 |
| Ceylon $(5 +)$ | | _ | | 0 | |
| 1901-46 | Male | 58.o | 29.9 | 28.1 | 14 |
| | \mathbf{Female} | 91.5 | 56.2 | $35 \cdot 3$ | 10 |
| Chile 1 (10 $+$) | | | C | | -0 |
| 1907-40 | Male | 46.9 | 24.6 | 22.3 | 18 |
| | Female | 52.9 | 28.2 | 24.7 | 17 |
| Colombia 1 (10 $+$) | | | • | 0 | |
| 1918-38 | Male | * 54.5 | 41.7 | 12.8 | 13 |
| | Female | * 60.0 | 46.5 | 13.9 | 12 |
| Cuba 2 (10 +) | | | | | |
| 1899-1943 | Male | 55.4 | $24 \cdot 9$ | 30.5 | 17 |
| | Female | 58.3 | 22.2 | 36.1 | 20 |
| Egypt $(10 +)$ | | 0 | -C C | | |
| 1907-37 | Male . | 87.0 | 76.6 | 10.4 | 4 |
| | Female | 98.6 | $93 \cdot 9$ | 4.7 | 2 |
| Finland $(15+)$ | 3.5.1 | | | 40.0 | 06 |
| 1900-30 | Male | 58.4 | 15.1 16.6 | 43.3 | 36 36 |
| | Female | 64.0 | 10.0 | 47 • 4 | 30 |
| France (10+) | 3.6.1 | | | 10.3 | 27 |
| 1901-46 | Male | 13.5 | 3.2 | 15.8 | - |
| | Female | 19.4 | 3.6 | 15.0 | 31 |
| Greece (10 +) | 36.1 | | 00.0 | 10.1 | 36 |
| 1920-28 | Male | 33.9 | 23.8 | | 18 |
| • | Female | 69.7 | $59 \cdot 4$ | 10.3 | 10 |
| Honduras (15 $+$) | 361. | 60.0 | 61.0 | 0.9 | 1 |
| 1930-45 | Male | 62.2 | 61.3 66.1 | 4.6 | 4 |
| / | Female | 70.7 | 00.1 | 4.0 | 4 |
| Hungary (15 $+$) | 36.1. | ** | <i>5</i> 0 | 5.5 | 31 |
| 1920-41 | Male | 10.5 16.1 | 5.0 7.6 | 8.5 | 31 |
| T 11 / 1 \ | Female | 10.1 | 7.0 | 0.5 | 3* |
| India (10 +) | Male | 88.5 | 84.7 | 3.8 | 1.4 |
| 1901-31 | | • | 97.6 | 1.7 | 0,6 |
| T. 1. 1. / | Female | 99.3 | 97.0 | , | 0.0 |
| Italy 1 (10 +) | Mala | 00.0 | 17.8 | 5.5 | 24 |
| 1921-31 | Male | 23.3 | 25.2 | 4.8 | 16 |
| 16 ' (1) | Female | 30.0 | ~ ე.~ | 4.0 | |
| Mexico (10 +) | Mala | 70 5 | 50.0 | 23.5 | O |
| 1900-40 | Male Female | 73·5 81.8 | 50.0 57.9 | 23.9 | 9 8 |
| | remaie | 01.0 | 57.9 | -3.3 | - |
| | | | | | |

PROGRESS OF LITERACY

| Country, age level (years) and period | Sex | Percentage of illiteracy | | Reduction | Average |
|---|---------------|---------------------------|---------------------|-----------------------------|----------------------------------|
| | | At beginning of period | At end of period | percentage of illiteracy | decennial rate of progress |
| Philippines (10 +) | | | | | % |
| 1939-48 | Male | 45.6 | 35.6 | 10.0 | 22 |
| | Female | 56.8 | 41.7 | 15.1 | 27 |
| Portugal 1 (10 +) | | • | - , | J | • |
| 1900-40 | Male | 63.9 | 41.5 | 22.4 | 10 |
| | Female | 81.8 | 58.5 | 23.3 | 8 |
| Spain (10 +) | | | | • • | |
| 1900-40 | Male | 47.2 | 17.3 | 29.9 | 22 |
| | Female | 69.4 | 28.5 | 40.9 | 20 |
| Turkey $(10+)$ | | | | - • | |
| 1935-45 | Male | 68.o | 55.0 | 13.0 | 19 |
| , | Female | 90.1 | 83.8 | 6.3 | 7 |
| Union of South Africa (European, 10 +) | | | | | • |
| 1904-18 | Male | $5 \cdot 7$ | 2.3 | $3 \cdot 4$ | 48 |
| (Native, all ages) | Female | 4.9 | 1.9 | 3.0 | 49 |
| 1904-46 | Male | 94.5 | 78. ı | 16.4 | 4 |
| | Female | 95.2 | 79.5 | 15.7 | 4 |
| United States (10 +) | | | | 0 , | 1 |
| 1900-30 | Male | 10.1 | 4.4 | 5.7 | 24. |
| | Female | 11.2 | 4.3 | $\tilde{6}.\tilde{9}$ | 27 |
| Yugoslavia (10 +) | | _ | - 0 | J | • |
| 1921-48 | Male | ³ 40.3 | 15.4 | 24.9 | 30 |
| | Female | ³ 60.0 | $34 \cdot 4$ | 25.6 | 19 |

and the standing from the contribution of the standing of the proposition of the proposition of the standing o

Note: 5+, 10+, 15+ is equivalent to 5 years old and over, etc.

Table 166 gives the countries grouped according to both the general rate of progress for both sexes and according to the difference between the male and female rates. There seems to be little or no correlation between these two measures. That is to say, whether the general rate of progress is low, medium or high, the male rate of progress is just as apt to be higher than, equal to, or lower than the female rate.

¹ Criterion of literacy is 'ability to read'.

² Criterion of literacy is not uniform for different censuses.

Population 12 years old and over.

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TABLE 166. Countries included in the present study grouped according to average decennial rates of progress and difference between male and female rates

| Average decennial | Count | Countries and periods t where the male rate of progress was | | | | | | | |
|-------------------------------|--|--|---|--|--|--|--|--|--|
| rate of progress (both sexes) | Higher than the female rate | About equal to the female rate | Lower than the female rate | | | | | | |
| Under 10 % | Burma (1901-31) Egypt (1907-37) Portugal (1900-40) | Brazil (1920-40) India (1901-31) Mexico (1900-40) Union of S. Africa (Native, 1904-46) | Honduras (1930-45) | | | | | | |
| 10-24% | Bulgaria (1900-34) Ceylon (1901-46) Greece (1920-28) Italy (1921-31) Spain (1900-40) Turkey (1935-45) Yugoslavia (1921-48) | Chile (1907-40) Colombia (1918-38) | Cuba (1899-1943) Philip- pines (1939-48) | | | | | | |
| 25% and over | | Finland (1900-30) Hungary (1920-41) Union of S. Africa (European, 1904-18) | Belgium (1900-30) Canada (1921-31) France (1901-46) United States (1900-30) | | | | | | |

¹ In addition, Argentina had an average decennial rate of progress, for both sexes, of 20 per cent during 1895-1914, and 25 per cent during 1914-47. Data are not available for a separate assessment of male and female rates.

PROGRESS AMONG CHILDREN OF SCHOOL-GOING AGES

Literacy data by age are not available in age groups sufficiently uniform for detailed comparisons. However, a comparison will be made of the rates of progress shown for different age groups among children between the ages of 5 and 14. These are the ages during which the future literacy status of the person is usually decided, although opportunity still exists in most countries for a person to acquire the rudimentary knowledge of reading and writing after reaching the age of 15.

Unfortunately for purposes of comparison, the age groups below 15 which are available from census reports vary considerably from one country to another. Among the countries included in the present study we have extracted literacy data for the following different age groups under 15 years: 10-14 years (10 countries, including age-group 10-15 years for Spain; and for Yugoslavia, 11-14 years at one census); 8-14 years (one country—Greece); 7-14 years (five countries); 6-14 years (three countries, including age-group, 7-15 years for Chile at one census); 5-14 years (one country—Egypt); 5-9 years (one country—France).

Table 167 shows reduction of illiteracy among boys and girls in these different age groups for various census periods, and their average rates of progress. It must be borne in mind that the term 'illiterate', as applied to children in these age groups, includes both those who, for lack of elementary instruction, are almost certain to become permanently illiterate as they grow into adulthood, and those who, because of age and other circumstances, have merely delayed making a start on reading and writing and are thus to be considered only temporarily illiterate

TABLE 167. Reduction of illiteracy among children of school-going ages in 21 selected countries, for various periods since about 1900

| Country, | | Percentage | of illiteracy | Reduction | Average |
|---------------------------------|-----------------|---------------------------|---------------------|--|----------------------------------|
| age group (years) and period | Sex | At beginning of period | At end of period | in percentage of illiteracy ¹ | decennial rate of progress |
| Belgium (7-14) | | | | | % |
| 1900-30 | Male | 22.5 | $3 \cdot 7$ | 18.8 | 45 |
| | Female | 20.8 | 3.4 | 17.4 | 45 |
| Brazil (7-14) | | | <i>3</i> 1 | , | 13 |
| 1920-40 | \mathbf{Male} | 79.8 | 67.9 | 0.11 | 8 |
| | Female | 80.7 | 67.ŏ | 13.7 | 9 |
| Bulgaria (10-14) | | ŕ | • | 3., | 3 |
| 1900-34 | Male | 38.2 | 10.4 | 27.8 | 32 |
| • • • | Female | 72.8 | 8.11 | 61.0 | 41 |
| Burma (10-14) | | • | | | 4. |
| 1901-31 | Male | 68.5 | 61.5 | 7.0 | 4 |
| | Female | 93.9 | 83.9 | 10.0 | 4 |
| Canada (10-14) | | 55 5 | -3-5 | | т |
| 1921-31 | Male | 2.3 | 1.3 | 1.0 | 43 |
| | Female | 1.9 | 1.1 | 0.8 | 42 |
| Chile 1 (6-14) | | | | 0 | 4- |
| 1907-40 | Male | 63.0 | ³ 34 · 9 | 28.1 | 16 |
| _ | Female | 62.5 | ³33.8 | 28.7 | 17 |
| Cuba (10-14) | | J | 33 | / | - / |
| 1899-1919 | Male | 66.9 | 49.8 | 17.1 | 14 |
| | Female | 60.9 | 43.2 | 17.7 | 16 |
| Egypt (5-14) | | 3 | 10 - | -,., | |
| 1907-27 | Male | 92.2 | 78.3 | 13.9 | 8 |
| | Female | 98.8 | 92.9 | 5.9 | 3 |

SOME COMPARISONS

| Country, | | Percentage o | of illiteracy | Reduction | Average decennial |
|---------------------------------|--------------------|------------------------|------------------|--|----------------------|
| age level (years) and period | Sex | At beginning of period | At end of period | in percentage of illiteracy ¹ | rate of progress |
| France (5-9) | | | | | % |
| 1901-46 | Male | 31.5 | 17.4 | 14.1 | 12 |
| - | Female | 30.3 | 15.3 | 15.0 | 14 |
| Greece (8-14) | | | | | |
| 1920-28 | Male | 28.6 | 12.1 | 16.5 | 66 |
| | Female | 51.4 | 28.0 | 23.4 | 53 |
| Honduras (7-14) | | | | | |
| 1930-45 | Male | 78.5 | 73 • 4 | 5.1 | 4 |
| | Female | 79 · 3 | $74 \cdot 7$ | 4.6 | 4 |
| Hungary (6-14) | | | | | |
| 1920-41 | Male | 21.2 | 12.6 | 8.6 | 22 |
| | Femal e | 20.8 | 12.5 | 8.3 | 22 |
| India (10-14) | | | | | |
| 1901-31 | Male | 92.3 | 90.2 | 2.1 | 0.8 |
| | Female | 99.2 | 97.2 | 2.0 | 0.7 |
| Italy 2 (6-14) | • | | | | |
| 1921-31 | Male | 25.1 | 11.2 | 13.9 | 55 |
| | Female | 25.9 | 12.1 | 13.8 | 53 |
| Mexico 4 (10-14) | | | | _ | |
| 1930-40 | Male | 47.9 | 54.6 | +6.7 | • |
| | Female | 49.6 | $54 \cdot 4$ | $+$ 4.8 \cdot | • |
| Philippines (10-14) | | | | | |
| 1939-48 | \mathbf{Male} | 45.7 | $34 \cdot 4$ | 11.3 | 25 |
| | Female | $45 \cdot 4$ | 32.1 | 13.3 | 29 |
| Portugal 2 (7-14) | | | | _ | |
| 1911-40 | \mathbf{Male} | 70.9 | 43 · I | 27.8 | 16 |
| | Female | 78.3 | 50.0 | 28.3 | 14 |
| Spain (10-15) | | | | | |
| 1900-40 | Male | $5^2 \cdot 4$ | 19.5 | 32.9 | 22 |
| | Female | 63.2 | 20.9 | $42 \cdot 3$ | 24 |
| Turkey (7-14) | | | | | c |
| 1935-45 | Male | 70.0 | 58.8 | 11.2 | 16 |
| | Female | 81.9 | 73 - 1 | 8.8 | 11 |
| United States (10-14) | | | | | |
| 1910-30 | Male | 4.6 | 1.4 | 3.2 | 45 |
| | Female | $3 \cdot 5$ | 1.0 | 2.5 | 47 |
| Yugoslavia (10-14) | | | | | |
| 1931-48 | Male | ⁵ 24 . I | 0.11 | 13.1 | 37 |
| | Female | ⁵ 43·2 | 20.1 | 23.1 | 36 |
| | | | | | |

 $^{^{\}rm 1}$ A plus sign in this column indicates an increase of illiteracy. $^{\rm 2}$ Criterion of literacy is 'ability to read'.

⁸ Age group 7-15 years.

⁴ Apparent increase in illiteracy rate.

Age group 11-14 years.

Bearing in mind the differences in age grouping, as well as differences in compulsory education requirements and provisions in various countries, we note that eight of the countries included in Table 167 have shown average decennial rates of progress of 25 per cent or more for these children. Four of these countries—Belgium, Canada, Philippines and Yugoslavia—have also shown 25 per cent or more in their average rate of progress among the population 15 years old and over. The other four countries—Bulgaria, Greece, Italy and the United States—have average rates between 10 and 24 per cent for the population 15 years old and over.

Six countries—Brazil, Burma, Egypt, Honduras, India and Mexico—during the various periods indicated, showed progress at a rate under 10 per cent per decade. With the exception of Mexico, their general rates of progress for the adult population were also under 10 per cent per decade.

Some degree of correlation is suggested here between the rate of progress of the school-age children and that of the adult

TABLE 168. Countries included in the present study grouped according to average decennial rates of progress for population 15 years old and over and for children of school-going ages

| Average decennial rate | Countries and periods where the rate of progress for children of school-going ages was | | | | |
|---------------------------------------|---|--|---|--|--|
| of progress (15 years and over) | Under 10 % | 10-24 % | 25 % and over | | |
| Under 10% | Brazil (1920-40) Burma (1901-31) Egypt (1907-27) Honduras (1930-45) India (1901-31) | Portugal (1911-40) | | | |
| 10-24% | Mexico (1930-40) | Chile (1907-40) Cuba (1899-1919) Spain (1900-40) Turkey (1935-45) | Bulgaria (1900-34) Greece (1920-28) Italy (1921-31) United States (1910-30) | | |
| 25% and over | | Hungary (1920-41) | Belgium (1900-30) Canada (1921-31) Philippines (1939-48) Yugoslavia (1931-48) | | |

¹ In addition, France (1901-46) had an average decennial rate of progress of 30 per cent for the

population 10 years old and over, and 12-14 per cent for children aged 5-9 years.

population, referring to identical periods of time between census years in each country. It is obvious that a high rate of progress in the reduction (or prevention) of illiteracy among school-age children must contribute greatly to the rate of progress for the adult population a few years later.

Once a generation of school-age children has been taught to read and write in larger proportionate numbers than their elders, they will of course, in passing beyond the school-going ages, bring down the illiteracy rate among the older age groups. This will in turn bring down the general illiteracy rate, which will finally approximate to the illiteracy rate of the particular group of children followed from the beginning, provided that succeeding groups of children are brought up with educational advantages equal to those enjoyed by the first group. Any further improvement in educational opportunities for young children will contribute additionally to the lowering of the illiteracy rate in succeeding periods. Thus the cumulative influence of the education of young children works to reduce the illiteracy rate among the total population. Hence it may be concluded that the children of school-going ages constitute a crucial group whose literacy rate largely determines the rate of progress in the reduction of illiteracy in any given country.

RATES OF PROGRESS BY COHORTS

In order to separate the influence of education among school-age children from the amount of progress noted for each age group between census years, an attempt has been made in the preceding chapter to assess the progress of literacy by specified cohorts, so far as the available data permitted such analyses. It has not been possible to eliminate the influence of migration on the illiteracy rate of a country which may have given or received a considerable number of emigrants or immigrants. In so far as the emigrants or immigrants have an illiteracy rate markedly different from the stationary population, the result of any large-scale emigration or immigration cannot but introduce a change, favourable or unfavourable, in the general illiteracy rate of the country concerned.

There is probably no reason to suppose that the survival rate among the illiterate population is either higher or lower than that of the literate part of the population. Therefore any reduction in the percentage of illiteracy among a given cohort must be due in large part to the improvement of literacy status by individuals in the group.

Table 169 consists of data on selected cohorts in seven countries, for various census periods between 1900 and 1940. It is shown, for example, that in Belgium during the census period 1900-10, among the cohort born between 1856 and 1865 (they were 35-44 years old in 1900, and 45-54 years old in 1910), the male illiteracy rate was reduced by 1.3 per cent, and the female rate by 1.2 per cent, giving decennial rates of progress of nine and six per cent respectively. During the next census period, another cohort of persons born between 1866 and 1875 (who passed through the same age periods as the first cohort, only 10 years after them), show rates of 22 per cent for the male persons, and 17 per cent for the female.

In some cases, such as Chile (1930-40) and Egypt (1927-37), each cohort registered an increase, rather than decrease, of illiteracy. This may be due to errors in enumeration or change in criteria of literacy, though among the older age groups there may have been some amount of relapse into illiteracy.

In the case of the United States, some increase in the illiteracy of cohorts is noted between the 1910 and 1920 census years, among males 35-44 years old and females 15-34 years old in 1910. This may be accounted for by the influx of relatively more illiterate immigrants during that period, the men among them being somewhat older than the women.

On the whole it appears that a certain amount of progress in reduction of illiteracy among these selected cohorts did occur between census years, more so among men than among women, and among the younger and more recent cohorts than among the older. Therefore, it may be said that there is evidence of progress made in the reduction of illiteracy even after the population has passed beyond the usual school-going ages.

TABLE 169. Reduction of illiteracy among specified cohorts in seven selected countries

| Country and period | Period of birth of cohort | Reduction in percentage of illiteracy ¹ | | ta | ennial te of gress |
|--------------------|---------------------------------|--|--------|------|--------------------------|
| | COHOIT | Male | Female | Male | Female |
| Belgium | | | 1.0 | % | % |
| 1900-10 | 1856-65 | 1.3 | 1.2 | 9 | 6 |
| 1910-20 | 1866-75 | 2.1 | 2.0 | 22 | 17 |
| 1900-10 | 1866-75 | 1.7 | 1.5 | 15 | ΙΙ |
| 1910-20 | 1876-85 | 2.0 | 1.5 | 27 | 19 |
| 1900-10 | 1876-85 | 2.8 | 1.2 | 27 | 13 |
| 1910-20 | 1886-95 | 2.6 | 1.3 | 40 | 24 |

| Country and | Period of birth of | perce | ction in ntage of eracy ¹ | ra | ennial te of ogress |
|---------------|--------------------|------------------|--|------|---------------------------|
| | cohort | Male | Female | Male | Female |
| Bulgaria | | | | % | % |
| 1900-10 | 1856-65 | 4. I | 0.7 | 7 | I |
| 1910-20 | 1866-75 | 0.8 | 0.7 | 2 | I |
| 1900-10 | 1866-75 | 4.6 | 1.9 | 10 | 2 |
| 1910-20 | 1876-85 | 2.4 | 2.3 | 8 | 3 |
| 1900-10 | 1876-85 | $9.\overline{4}$ | 1.5 | 24 | 2 |
| 1910-20 | 1886-95 | $6.\overline{9}$ | 3.6 | 25 | 6 |
| Chile | | - | | | |
| 1920-30 | 1881-90 | 6.9 | 4.5 | 22 | 12 |
| 1930-40 | 1891-1900 | + 5·3 | + 6.8 | • | • |
| 1920-30 | 1891-1900 | 8.7 | 5.0 | 30 | 16 |
| 1930-40 | 1901-10 | + 3.5 | + 6.1 | • | • |
| 1920-30 | 1901-10 | 18.0 | 12.6 | 49 | 37 |
| 1930-40 | 1911-20 | + 1.3 | + 4.1 | • | • |
| Egypt | 3 | | | | |
| 1917-27 | 1878-87 | 8.2 | 0.8 | 10 | I |
| 1927-37 | 1888-97 | + 1.9 | + 0.2 | • | |
| 1917-27 | 1888-97 | 7.2 | 0.7 | 9 | I |
| 1927-37 | 1898-1907 | + 3.0 | + 1.0 | • | |
| 1917-27 | 1898-1907 | 10.4 | 0.9 | 12 | I |
| 1927-37 | 1908-17 | T | + 2.2 | 0 | |
| Italy | 1900-17 | | 1 | | |
| • | 1872-81 | 1.9 | 4.7 | 7 | 12 |
| 1911-21 | 1882-91 | 1.2 | + 2.0 | 6 | • |
| 1921-31 | 1882-91 | 3.8 | 4.6 | 16 | 14 |
| 1911-21 | 1892-1901 | 1.9 | 4.0 0.1 | 12 | 0 |
| 1921-31 | _0 0 | 7.7 | 4.5 | 32 | 17 |
| 1911-21 | 1892-1901 | 7 · 7 6 · 1 | | 34 | 18 |
| 1921-31 | 1902-11 | 0.1 | $3 \cdot 4$ | 34 | 10 |
| Spain | -960 60 | | 0.4 | 7 | 5 |
| 1900-10 | 1860-69 | 3.0 | $3 \cdot 4$ $5 \cdot 0$ | 11 | 8 |
| 1910-20 | 1870-79 | 4.1 | - | 11 | 5 |
| 1900-10 | 1870-79 | 5.0 6.0 | 3.5 | 16 | 9 |
| 1910-20 | 1880-89 | | 4.7 | 21 | 10 |
| 1900-10 | 1880-89 | 10.3 | 6.3 | | 16 |
| 1910-20 | 1890-99 | 14.0 | 8.7 | 32 | 10 |
| United States | 0.00 | | | | |
| 1910-20 | 1866-75 | + 0.4 | 0.3 | 6 | 3 |
| 1920-30 | 1876-85 | 0.4 | 0.3 | | 4 |
| 1910-20 | 1876-85 | 0.7 | + 0.1 | 9 | • |
| 1920-30 | 1886-95 | 0.7 | 0.2 | 13 | 4 |
| 1910-20 | 1886-95 | I.I | + 0.5 | 16 | • |
| 1920-30 | 1896-1905 | 0.7 | 0.1 | 17 | 3 |

¹ A plus sign in this column indicates increase of illiteracy.

PROGRESS IN URBAN AND RURAL AREAS

Illiteracy generally tends to be higher in rural than in urban areas. This is not surprising, in view of the relatively unfavourable conditions for education in rural areas. Considerable progress has been shown, however, in rural as well as urban areas in several countries for which illiteracy figures are available by urban-rural classification. Rates of progress were higher for urban areas (variously defined) in Bulgaria, 1900-34; Canada, 1921-31; Cuba, 1899-1934; and Finland, 1900-30. On the other hand, the European or white population in the Union of South Africa showed a higher rate of progress during 1904-18 in the rural areas. Similarly, for the total population of the United States, during 1910-30, progress was more marked in the rural than in the urban areas. In Belgium, 1900-30, communes of less than 5,000 inhabitants registered more rapid progress than the larger communes, but this distinction by size of communes is probably not equivalent to an urban-rural classification. Finally, in Greece, between 1920 and 1928, relatively more progress was shown by the rural male than the urban male population, but among the female population the advantage was still with the urban areas.

In these eight countries taken together—similar comparative data are unavailable for the other countries—the following groups showed average decennial rates of progress of 25 per cent or more: Belgium (1900-30) all areas, both sexes; Bulgaria (1900-34) urban and rural, male; Canada (1921-31) urban, both sexes; rural, female; Finland (1900-30) all areas, both sexes; Greece (1920-28) urban and rural, male; Union of South Africa (European or white, 1904-18) all areas, both sexes.

Both in Cuba, 1899-1943, and in the United States, 1910-30, as well as the remaining sex or residence groups in Bulgaria, Canada and Greece, the rate of progress was within the range of 10-24 per cent per decade.

SOME COMPARISONS

Table 170. Reduction of illiteracy in the urban and rural populations of eight selected countries, for various periods since about 1900

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| Country | Area | Percentage of | f illiteracy | Reduction in | Average |
|------------------------------------|--------------------|------------------------|---------------------|--------------------------------|----------------------------------|
| age level (years) and period | and Sex | At beginning of period | At end of period | percentage of illiteracy | decennial rate of progress |
| Belgium (15 +) | Urban ¹ | | | | % |
| 1900-30 | Both sexes | 20.5 | 6.5 | 14.0 | 32 |
| -3 3- | Male | 17.9 | 5.8 | 12.1 | 31 |
| | Female | 22.8 | 7.0 | 15.8 | 33 |
| | Rural | | • | 9 | • |
| | Both sexes | 18.6 | 5. I | 13.5 | 35 |
| | Male | 16.2 | 4.8 | 11.4 | 33 |
| | Female | 21.0 | 5.3 | 15.7 | 37 |
| Bulgaria (10 +) | Urban ² | 21.0 | 3.3 | -3.7 | 37 |
| 1900-34 | Both sexes | 46.6 | 18.8 | 27.8 | 23 |
| 1900-34 | Male | 32.4 | 11.3 | 21.1 | -3 27 |
| | Female | 62.2 | 26.5 | 35.7 | 22 |
| | Rural | 02.2 | 20.5 | 33.7 | 44 |
| | Both sexes | 76.8 | 07.0 | 41.6 | 21 |
| | Male | 60.7 | 35.2 | 38.8 | 26 |
| | | • | 21.9 | • | 18 |
| a 1 () | Female | 93∙5 | 48.3 | 45.2 | 10 |
| Canada (10 +) | Urban ³ | - C | | | |
| 1921-31 | Male | 3.6 | 2.7 | 0.9 | 25 |
| | Female | 2.7 | 2.0 | 0.7 | 26 |
| | Rural | | C | | |
| | Male | 7.7 | 6.1 | 1.6 | 21 |
| | Female | 6.5 | 4.9 | 1.6 | 25 |
| Cuba $(10 +)$ | Urban4 | 26.8 | 9.1 | 17.7 | 22 |
| 1899-1943 | Rural | 66.7 | 33.8 | 32.9 | 14 |
| Finland (15 +) | Urban² | | | | |
| 1900-30 | Both sexes | 24.0 | 4.3 | 19.7 | 44 |
| | Male | 21.1 | 3.3 | 1 7. 8 | 46 |
| | Female | 26.9 | 5. 0 | 21.9 | 43 |
| | Rural | | | | |
| | Both sexes | 67.0 | 19.0 | 48.o | 34 |
| | Male | 63.8 | 17.9 | 45.9 | 35 |
| | Female | 70.3 | 20.0 | 50.3 | 34 |
| Greece (8 +) | Urban ⁵ | | | | |
| 1920-28 | Both sexes | 35.1 | 29.0 | 6. ı | 21 |
| -3 | Male | 23.9 | 17.2 | 6.7 | 34 |
| | Female | 48.5 | 41.0 | 7·5 | 19 |
| | Rural | 43 | - T | 7.5 | , |
| | Both sexes | 58.2 | 46.9 | 11.3 | 24 |
| | Male | 38.7 | 26.7 | 12.0 | 37 |
| | Female | 76.0 | 66.4 | 9.6 | 16 |

| Country | Area | Percentage of illiteracy | | Percentage of illiteracy | | Reduction in | Average decennial |
|------------------------------|--------------------|--------------------------|---------------------|--------------------------------|------------------|--------------|----------------------|
| age level (years) and period | and Sex | At beginning of period | At end of period | percentage of illiteracy | rate of progress | | |
| Union of South | Urban³ | | | | % | | |
| Africa (Euro- | Both sexes | 4.2 | 2.1 | 2.1 | 39 | | |
| pean or White | Male | 4.4 | 2.2 | 2.2 | 39 | | |
| population, | Female | 3.9 | 2.0 | 1.9 | 38 | | |
| 10+) 1904-18 | Rural | | | | | | |
| | Both sexes | 7.6 | 2.0 | 5.6 | 61 | | |
| | Male | 8.4 | 2.4 | 6. o | 59 | | |
| | Female | 6.5 | 1.6 | 4.9 | 63 | | |
| United States | | _ | | | _ | | |
| (10 +) | Urban ⁶ | 5.1 | 3.2 | 1.9 | 21 | | |
| 1910-30 | Rural | 10.1 | 6. o | 4.1 | 23 | | |

,我们们一个人,我们也是有效,我们就是不是是一个人,我们也是一个人,我们就是这种的,我们就是一个人,我们也是一个人,我们也是一个人,我们们也不是一个人,也不是一

- 1 Communes of 5,000 or more inhabitants.
- ² Cities and towns.
- 3 Incorporated cities, towns and villages of all sizes.
- 4 Cities of 25,000 or more inhabitants.
- ⁵ Municipalities and communes of 10,000 or more inhabitants.
- Incorporated places of 2,500 or more inhabitants.

Note: 8 +, 10 +, 15 +, is equivalent to 8 years of age and over, etc.

PROGRESS OF LITERACY, BY VARIOUS DEMOGRAPHIC GROUPS

Obviously the rate of progress for the country as a whole is largely determined by the rate of progress of the predominant group in the population. Where there are several large groups, their contribution to the progress of the total population will be in relation both to their numerical importance and to their respective rates of progress. Figures showing progress of literacy by linguistic groups are presented for seven countries in Table 171.

For another seven countries, Table 172 shows different rates of progress by nationality, colour, or by other ethnic classifications used in each country. Again, the proportions of the total population belonging to each category must be borne in mind in assessing the various rates of progress. In Cuba, for instance, the foreign white population showed the lowest rate of progress, about six per cent per decade between 1899 and 1943. But in 1943 this group only constituted four per cent of the total population; hence the influence of their own rate of progress on that of the population in general was very small.

On the other hand, the rate of progress in the Union of South Africa as a whole would certainly be greatly affected by the rate of progress among the native (Bantu) population, who constitute about 80 per cent of the total population of that country.

SOME COMPARISONS

TABLE 171. Progress of literacy in Bulgaria, Finland and Hungary, by linguistic groups

| Country, age level | Linguistic | Percen illite | tage of racy | Reduction in | Average decennial |
|-----------------------|--------------------------|------------------------------|----------------------|--------------------------------|----------------------|
| (years) and period | group | At beginning of period | At end of period | percentage of illiteracy | rate of progress |
| Bulgaria (10 +) | | | | | % |
| 1910-34 | All groups | 57.8 | <i>31</i> . 4 | 26.4 | 22 |
| | Bulgarian | 52.0 | 25.3 | 26.7 | 2 6 |
| | Other Slavonic | 33 - 4 | 6.2 | 27.2 | 50 |
| | Turkish, Tartar | | | · | - |
| | and Romany | 92.5 | 81.7 | 10.8 | 5 |
| | Greek | 57.8 | 51.6 | 6.2 | 5 |
| | Rumanian | 76.o | 72.1 | 3.9 | 2 |
| | Jewish | 26.8 | 18.0 | 8.8 | 15 |
| | Armenian | 30.8 | 23.8 | 7.0 | 10 |
| | Other non- | | | | |
| | Slavonic | 22.5 | 11.4 | 11.1 | 25 |
| Finland (15 +) | | | | | % |
| 1900-30 | All groups | 61.2 | 15.9 | 45.3 | 36 |
| | Finnish | 63.9 | 16.8 | 47.1 | 36 |
| | Swedish | 45.9 | 8.6 | 37.3 | 43 |
| | Russian | 16.4 | 6.ı | 10.3 | 28 |
| | German | 0.9 | 0.2 | 0.7 | 39 |
| | Lapp | 69.2 | $34 \cdot 4$ | 34.8 | 21 |
| | Other | 27.6 | 10.7 | 16.9 | 27 |
| Hungary $(6 +)$ | | | | | |
| 1920-30 | All groups | 15.2 | 9.6 | 5.6 | 37 |
| | Hungarian | 15.2 | 9.6 | 5.6 | 37 |
| | German | 10.3 | 6.7 | 3.6 | 35 |
| | Slovak | 17.4 | 8.01 | 6.6 | 38 |
| | Other | 30.5 | 24.3 | 6.2 | 20 |
| Note: 6 +, 10 +, 15 | +, is equivalent to 6 ye | ears old and o | ver, etc. | | |

TABLE 172. Reduction of illiteracy in seven selected countries, by nationality, colour or other ethnic groups

ন্যা বিলালে । ১৮০টা স্কার নাম সালস্পত্র লাজনীতি কিছুর এই জানুষ্ঠাই ইন্ট্রিকর ইন্ট্রিকর বিভাগের করি কর্মনার করি

| Country, | Nationality, | Percentage of | of illiteracy | Reduction | Average | |
|---------------------------------|--|---|------------------|--|----------------------------------|--|
| age level (years) and period | colour, or ethnic group | At beginning At end of of period period | | in percentage of illiteracy ¹ | decennial rate of progress | |
| Burma (all ages) | ,,,, | | | - - | % | |
| 1901-31 | All groups | 78.5 | 68.3 | 10.2 | | |
| · - | Burmese | 73.2 | 60.5 | 12.7 | <i>5</i> 6 | |
| | Shan | 92.1 | 88.5 | 3.6 | I | |
| | Karen | 90.9 | 75.8 | 15.1 | 6 | |
| Canada (10 $+$) | | • | | | | |
| 1921-31 | All groups | 4.5 | 3.4 | 1.1 | 24 | |
| <i>5</i> | British | 1.1 | 0.9 | 0.2 | 81 | |
| | European | 8.9 | 6.2 | 2.7 | 30 | |
| | Asiatic | $26.\check{6}$ | 15.3 | 11.3 | 42 | |
| | Negro | 8.4 | 8.1 | 0.3 | 4 | |
| Cuba (10 +) | | | | | • | |
| 1899-1943 | All groups | 56.9 | 23.6 | 33 · 3 | 18 | |
| 33 -313 | Native White | 53.4 | 22.4 | 31.0 | 18 | |
| | Foreign White | | 22.4 | 6.9 | 6 | |
| | Coloured | 72.0 | 27.4 | 44.6 | 20 | |
| Egypt (5 +) | C . C . C . C . C . C . C . C . C . C . | , | -/· I | 11 | | |
| 1917-37 | All groups | 92.0 | 81.4 | 10.6 | 6 | |
| -3-1 31 | Egyptian | 93.0 | 82.2 | 10.8 | 6 | |
| | Foreign | 41.9 | 19.1 | 22.8 | 32 | |
| France (10 +) | 2 02 03812 | 43 | -9*- | | J- | |
| 1921-36 | All groups | 8.2 | 4.0 | 4.2 | 38 | |
| -9 50 | French: native | | 3.3 | 4.5 | 44 | |
| | Naturalized | 10.7 | 8.1 | 2.6 | 17 | |
| | Foreign | 17.8 | 14.3 | 3.5 | 14 | |
| Union of South | 10101611 | -7.0 | -4.3 | 3.5 | ~4 | |
| Africa (10 +) | | | | | | |
| 1904-18 | European or | | | | | |
| 1904 10 | White | 5.4 | 2.1 | 3.3 | 49 | |
| (all ages) | *************************************** | 3.4 | 4.1 | 3.3 | 49 | |
| 1904-46 | Native | 94.9 | 78.8 | 16.1 | 4 | |
| United States (10 +) | Hative | 94.9 | 70.0 | 10.1 | 4 | |
| 1900-20 | All groups | 10.7 | 6.0 | 4 7 | 25 | |
| 1900-20 | Native White | 4.6 | 2.0 | 4·7 2.6 | - | |
| | Foreign-born | 4.0 | 2.0 | 4.0 | 34 | |
| | White | 10.0 | 70 7 | + 0.2 | | |
| | Negro | 12.9 | 13.1 | 21.6 | 28 | |
| | Other | 44.5 | 22.9 | 18.9 | | |
| | Omer | 44.5 | 25.6 | 10.9 | 24 | |

LIST OF SOURCES

The following sources have been consulted for census data on literacy and illiteracy used in the present study:

ARGENTINA

Dirección Nacional de Investigaciones, Estadística y Censos. Tercer censo nacional levantado el 1º de junio de 1914. Tomo III. Buenos Aires, 1916.

—. IV censo general de la nación. Cuestionarios censales, planillas y formularios impresos. Buenos Aires, 1947.

Dirección General del Servicio Estadístico Nacional. IV censo general de la nación, 1947. Comparación de los resultados del censo de población. Buenos Aires, 1951.

BELGIUM

Ministère de l'Intérieur. Population: Recensement général du 31 décembre 1900. Tome I. Bruxelles, 1903.

—. Population: Recensement général du 31 décembre 1910. Tome I. Bruxelles, 1916.

—. Population: Recensement général du 31 décembre 1920. Tome I. Bruxelles, 1926.

—. Population: Recensement général du 31 décembre 1930. Tome III. Bruxelles, 1937.

BRAZIL

Directoria Geral de Estatística. Synopse do recenseamento realizado em 1 de 1920. Rio de Janeiro, 1925.

Instituto Brasileiro de Geografia e Estatística. Estudos sobre a alfabetização e a instrução da população do Brasil, conforme as aspuraçães do censo demográfico de 1940. Rio de Janeiro, 1950.

BULGARIA

Direction générale de la statistique. Résultats généraux du Recensement de la population au 31 décembre 1900. 1^{ere} livraison. Sofia, 1906.

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- —. Résultats généraux du recensement de la population au 31 décembre 1905. Livre I. Sofia, 1911.
- —. Résultats généraux du recensement de la population au 31 décembre 1910. Tome I. Sofia, 1923.
- —. Résultats généraux du recensement de la population au 31 décembre 1920. Tome I. Sofia, 1927.
- —. Résultats généraux du recensement de la population au 31 décembre 1926. Tome I. Sofia, 1931.
- —. Recensement de la population au 31 décembre 1934. Résultats généraux. Tome I. Sofia, 1938.

BURMA

Census Commission. Census of India, 1901. Vol. 12, Part. I; Vol. 12 A, Part. II. Rangoon, 1902.

- -. Census of India, 1911. Vol. IX, Parts I, II. Rangoon, 1912.
- —. Census of India, 1921. Vol. X, Part. I. Delhi, 1933; Vol. XI, Part I. Rangoon, 1933.

CANADA

Census Office. Fourth Census of Canada, 1901. Vol. I. Ottawa, 1902.

Census and Statistics Bureau. Census of Canada, 1911. Vol. II. Ottawa, 1913. Dominion Bureau of Statistics. Sixth Census of Canada. Bulletin XVII. Ottawa, n.d.

- —. School Attendance and Literacy by Sex for Canada and Provinces, 1931. Census Bulletin XVIII. Ottawa, 1932.
- —. Literacy, Language Spoken, and Conjugal Condition of the Population Ten Years of Age and Over. Census Bulletin XXXII. Ottawa, 1933.
- —. Illiteracy and School Attendance. Census Monograph No. 5. Ottawa, 1937.
- -. Eighth Census of Canada, 1941. Vols. III, VII. Ottawa, 1946.
- Colonial Secretary's Office. Census of Newfoundland and Labrador 1901. St John's, n.d.
- —. Census of Newfoundland and Labrador 1911. St. John's, 1914.
- Newfoundland. Department of Public Health and Welfare. Tenth Census of Newfoundland and Labrador, 1935. Vol. I. St. John's, 1937.
- ---. Eleventh Census of Newfoundland and Labrador, 1945. Vol. I. Ottawa, 1949.
- Canada. Dominion Bureau of Statistics. Province of Newfoundland. Statistical Background. Ottawa, 1949.

CEYLON

Department of Census and Statistics. Census of Ceylon, 1901. Vol. II. Colombo, 1902.

- —. Census of Ceylon, 1911. Colombo, 1912.
- -. Census of Ceylon, 1921. Vol. I, Part II. Colombo, 1924.
- --. Census of Ceylon, 1946. Vol. I, Part I. Colombo, 1950.

CHILE

Comisión Central del Censo. Censo de la República de Chile 1907. Santiago, 1908.

Dirección General de Estadística. Censo de población de la República de Chile, 1920. Santiago, 1925.

- —. Estadística chilena. Año XVIII, N.º 12. Santiago, 1945.
- —. Resultados del X censo de la población, 1930. Vols. I, II. Santiago, 1931.

COLOMBIA

Dirección General de Estadística. Censo de población, 1918. Bogotá, 1924. Contraloría General de la República. Censo de Colombia, 1938. Tomo XVI. Bogotá 1942.

CUBA

United States. War Department. Report on the Census of Cuba, 1899. Washington, 1900.

United States. Bureau of the Census. Cuba: Population, History and Resources, 1907. Washington, 1909.

Cuba. Dirección General del Censo. Censo de la República de Cuba, 1909. La Habana, 1922.

-. Censo de 1943. La Habana, 1945.

EGYPT

Ministry of Finance. Statistical and Census Department. Census of Egypt, 1907. Cairo, 1909.

- —. Census of Egypt. 1917. Vol. II. Cairo, 1921.
- -. Census of Egypt, 1927. Part I. Cairo, 1931.
- —. Census of Egypt, 1937. Cairo, 1942.

Ministère de l'économie nationale. Département de la statistique et du recensement. Annuaire statistique 1945-46 et 1946-47. Le Caire, 1951.

FINLAND

Statistiques officielles de la Finlande. Population de la Finlande au 31 décembre 1920. Tome I. Helsinki, 1922.

—. Population de la Finlande au 31 décembre 1930. Tome I. Helsinki, 1933.

FRANCE

Service du recensement. Résultats statistiques du recensement général de la population effectué le 24 mars 1901. Tomes I, IV. Paris, 1904.

Statistique générale de la France. Résultats statistiques de recensement général de la population effectué le 5 mars 1911. Tome I. Paris, 1913.

---. Résultats statistiques du recensement général de la population effectué le 6 mars 1921. Tome I. Paris, 1923.

---. Résultats statistiques du recensement général de la population effectué le 7 mars 1926. Tome I. Paris, 1928.

—. Résultats statistiques du recensement général de la population effectué le 8 mars 1931. Tome I. Paris, 1933.

Direction de la statistique générale et de la documentation. Résultats statistiques du recensement général de la population effectué le 8 mars 1936. Tome I. Paris, 1938.

Direction de la statistique générale. Résultats statistiques du recensement général de la population effectué le 10 mars 1946. Vol. I. Paris, 1948.

GREECE

Service du recensement. Résultats statistiques du recensement général de la population effectué le 27 octobre 1907. Tomes I, II. Athènes, 1909.

Statistique générale de la Grèce. Recensement de la population de la Grèce au 19 décembre 1920-1^{ex} janvier 1921. Athènes, 1928.

—. Résultats statistiques du recensement de la population de la Grèce du 15-16 mai 1928, Athènes, 1933.

HONDURAS

Dirección General de Estadística. Censo general de población, 1926. Tegucigalpa, 1927.

- -. Censo general de población: Resumen, 1930. Tegucigalpa, 1932.
- -. Resumen del censo general de población, 1935. Tegucigalpa, 1936.
- —. Resumen del censo general de población, 1940. Tegucigalpa, 1942.
- -. Resumen del censo general de población, 1945. Tegucigalpa, 1947.

HUNGARY

Publications statistiques hongroises. Dénombrement de la population des pays de la Sainte Couronne hongroise, 1900. 7ème partie. Budapest, 1906.

—. Recensement général de la population des pays de la Sainte Couronne hongroise, 1910. 5ºmº partie. Budapest, 1916.

Recensement général de la population de 1920. 1ère partie. Budapest, 1923.
Recensement général de la population de 1930. 1ère partie. Budapest, 1933.

Office central de statistique. Revue statistique hongroise. XXV année, No. 11-12. Budapest, 1947.

Office central royal hongrois de statistique. Annuaire statistique hongrois, 1939. Budapest, 1940.

INDIA

Government of India. Census of India. 1901. Vol. I, Part I. Calcutta, 1903.

- -. Census of India, 1911. Vol. I, Part I. Calcutta, 1913.
- -. Census of India, 1921. Vol. I, Part I. Calcutta, 1924.
- -. Census of India, 1931. Vol. I, Part I. Delhi, 1933.
- Census of India, 1941. Vol. IX (Assam). Simla, 1942; Vol. XVII (Baroda). Baroda, 1941; Vol. IV (Bengal). Simla, 1942; Vol. VII (Bihar). Simla, 1942; Vol. III (Bombay). Simla, 1942; Vol. XVIII (Central India). Simla, 1943; Vol. VIII (Central Provinces and Berar). Simla, 1942; Vol. XIX (Cochin). Ernakulam, 1944; Vol. XVI (Delhi). Simla, 1942; Vol. (?) (Jaipur State), Parts I, II. Ajmer, 1941; Vol. XXII (Jammu and Kashmir), Parts I, II. Ranbir, 1942; Vol. XXIII (Mysore), Part II. Bangalore, 1942; Vol. XI (Orissa). Simla, 1942; Vol. VI (Punjab). Simla, 1941; Vol. XXIV (Rajputana and Ajmer-Merwara). Jaipur, 1941; Vol. XII (Sind). Simla, 1942.

ITALY

Direzione generale della statistica. Censimento della popolazione del Regno d'Italia al 10 febbraio 1901. Vol. II. Roma, 1903; Vol. V. Roma, 1904. Direzione generale della statistica e del Lavoro. Censimento della popolazione del Regno d'Italia al 10 giugno 1911. Vols. II. III. Roma, 1914; Vol. VII. Roma, 1916.

Instituto centrale de Statistica. Censimento della popolazione del Regno d'Italia al 1º dicembre 1921. Vol. XIX Roma, 1928.

—. Censimento generale della popolazione del Regno d'Italia. VII censimento generale della popolazione 21 aprile 1931. Vol. IV: parte seconda. Roma, 1934; parte prima. Roma, 1935.

MEXICO

Dirección General de Estadística. Tercer censo de población de los Estados Unidos Mexicanos, 1910. Mexico, 1918.

- —. Censo general de habitantes, Resumen, 1921. México, 1928.
- —. Quinto censo de población, 15 de mayo de 1930: Resumen general. México, 1934.
- -. Sexto censo de población, 1940: Resumen general. México, 1943.

PHILIPPINES

United States Census Bureau. Census of the Philippines, 1903. Vol. 3. Washington, 1905.

Census Office of the Philippine Islands. Census of the Philippine Islands, 1918. Vol. II, Vol. IV, Part 2. Manila, 1921.

Commission of the Census, Manila. Census of the Philippines: 1939. Vol. II. Manila, 1941.

PORTUGAL

Direcção Geral da Estatística e dos Proprios Nacionaes. Censo da população do Reino de Portugal no 1º dezembro de 1900. Vol. I. Lisboa, 1905.

Direcção Geral da Estatística. Censo da população de Portugal no 1º de dezembro de 1911. Partes II, III. Lisboa, 1913.

—. Censo da população de Portugal, dezembro de 1920. Vol. II. Lisboa, 1925.

—. Censo da população de Portugal no 1º dezembro de 1930.
Vol. II. Liboa, 1934.

Instituto Nacional de Estatística. VIII Recenseamento geral da população, 12 de dezembro de 1940. Vol. I. Lisboa, 1945; Vol. XXV. Lisboa, 1947. —. Anuario estatístico 1950. Lisboa, 1951.

SPAIN

Dirección General del Instituto Geográfico y Estadístico. Censo de la población de España, el 31 de diciembre de 1900. Tomo I. Madrid, 1902; Tomo II. Madrid, 1903; Tomo III. Madrid, 1907.

—. Censo de la población de España, el 31 diciembre de 1910. Tomo II. Madrid, 1916; Tomo III. Madrid, 1917.

Dirección General de Estadística. Censo de la población de España, el 31 de diciembre de 1920. Tomo I. Madrid, 1922; Tomo II. Madrid, 1924; Tomo III. Madrid, 1926.

—. Censo de la población de España, el 31 de diciembre de 1940. Tomo I. Madrid, 1943; Tomos XVII, XVIII. Madrid, n.d.

TURKEY

Office central de statistique. Recensement général de la population au 28 octobre 1927. Fascicules I, III. Ankara, 1929.

—. Recensement général de la population au 20 octobre 1935. Tome I. Istambul, 1936; Tome 60. Ankara, 1937.

—. Recensement général de la population du 21 octobre 1945. Vol. 65. Ankara, 1950.

UNION OF SOUTH AFRICA

Colony of the Cape of Good Hope. Census Office. Census, 1904. Cape Town, 1905.

Colony of Natal. Census Office. Census, 1904. Pietermaritzburg, 1905. Orange River Colony. Census office. Census, 1904. Bloemfontein. n.d. Transvaal Colony and Swaziland. Census Commission. Census, 1904. London, 1906.

Union of South Africa. Census, 1911. Part. I. Pretoria, 1913.

—. Census of the European or White Races, 1918. Part III. Cape Town, 1920.

Office of Census and Statistics. Census, 1921. Parts I-IX. Pretoria, 1924.

Bureau of Census and Statistics. Preliminary Census Report: (c) Literacy of Natives, 1946 (Special Report No. 189). Pretoria, 1947.

UNITED STATES

Bureau of the Census. Twelfth Census of the United States, 1900. Vol. II. Washington, 1902.

- —. Thirteenth Census of the United States, 1910. Vol. I. Washington, 1913.
- -. Fourteenth Census of the United States, 1920. Vol. II. Washington, 1922. --. Fifteenth Census of the United States, 1930. Vol. II. Washington, 1933.
- —. Illiteracy in the United States: October 1947 (Current Population Reports: Population Characteristics, Series P-20, No. 20). Washington, 22 September 1948.

YUGOSLAVIA

Federal Statistical Office. Statistical Bulletin. Nos. 1, 2. Belgrade, 1950;

No. 5. Belgrade, 1951.

-. Statistical Review of Yugoslavia. Belgrade, July 1951. (Ref. Babič, Milan. Illiteracy Statistics in Yugoslavia. For a list of sources indicated by the author of this article, see page 167.)

A P P E N D I X

Table A. POPULATION OF 26 COUNTRIES CLASSIFIED BY LITERACY

Each census since about 1900

| Country | | | M-4-11-45 | | | | | | |
|-----------|--------|----------------------|------------|---|-----------------------|------------------|----------------------------------|----------------------|--|
| and A | census | Age level (years) | Sex | Total population at specifield age level ¹ | Can read and write | Can read only | Can neither read nor write | Literacy unstated | Percentage of illiteracy ² |
| Argentina | | | | | | | | | |
| 1914 | 7 + | MF | 6 301 961 | 3 915 949 | 172 096 | 2 213 916 | | 37.9 | |
| | | \mathbf{M} | 3 424 228 | 2 232 046 | 74 301 | 1 117 881 | | 34.8 | |
| | | F | 2 877 733 | 1 683 903 | 97 795 | 1 096 035 | | 41.5 | |
| 1914 | 14 + | \mathbf{MF} | 5 026 914 | 3 261 014 | 1 765 | 900 | | 35.1 | |
| 1947 | 14 + | \mathbf{MF} | 11 318 896 | 9 777 218 | I 54I | 678 | | 13.6 | |
| | | M | 5 828 722 | 5 123 524 | 705 | 198 | | 12.1 | |
| | | F | 5 490 174 | 4 653 694 | 836 | 480 | | 15.2 | |
| Belgium | | | | | | | | _ | |
| 1900 | 15 + | \mathbf{MF} | 4 571 045 | 3 676 319 | 894 | 723 | 3 | 19.6 | |
| - | | M | 2 259 333 | 1 872 904 | 386 | 426 | 3 | 17.1 | |
| | | ${f F}$ | 2 311 712 | 1 803 415 | 508 | 297 | | 22.0 | |
| 1910] | 15 + | \mathbf{MF} | 5 156 755 | 4 463 688 | 693 | | | 13.4 | |
| · • | • | \mathbf{M} | 2 542 755 | 2 244 593 | 298 | 162 | | 11.7 | |
| | | \mathbf{F} | 2 614 000 | 2 219 095 | 394 | | | 15.1 | |
| 1920 | 15 + | MF | 5 549 737 | 5 114 419 | 435 | _ | | 7.8 | |
| Sa Sa | J | M | 2 711 476 | 2 528 945 | 182 | 531 | | 6.7 | |
| 59 di | | F | 2 838 261 | 2 585 474 | 252 | 787 | <u></u> | 8.9 | |

| Belgium (cont.) | | | | | | | |
|-----------------|-------------|---------------|------------|-------------------|---------------------|--------|---------------|
| 1930 | 15 + | \mathbf{MF} | 6 232 821 | 5 863 417 | 369 404 | | 5· 9 |
| 1930 | - J | M | 3 070 447 | 2 902 926 | 167 521 | ****** | 5.5 |
| | | \mathbf{F} | 3 162 374 | 2 960 491 | 201 883 | | 6.4 |
| Brazil | | | | • | C CC- | | 6- 0 |
| 1900 | 15 + | \mathbf{MF} | 9 752 111 | 3 380 451 | 6 371 660 | | 65.3 |
| 1920 | 15 + | \mathbf{MF} | 17 557 282 | 6 155 567 | 11 401 715 | | 64.9 |
| J | _ | M | 8 810 201 | 3 776 o67 | 5 034 134 | | 57.1 |
| | | ${f F}$ | 8 747 o81 | 2 379 500 | 6 367 581 | | 72.8 |
| 1940 | 15 + | \mathbf{MF} | 23 709 769 | 10 379 990 | 13 269 381 | 60 398 | 56. I |
| -J1 | Ü | M | 11 752 357 | 5 897 7 95 | 5 825 214 | 29 348 | 49.7 |
| | | ${f F}$ | 11 957 412 | 4 482 195 | 7 444 167 | 31 050 | 62.4 |
| Bulgaria | | | | | | | |
| 1900 | 10_+ | \mathbf{MF} | 2 707 108 | 800 234 | 1 906 874 | - | 70.4 |
| 1900 | | M | ı 386 817 | 629 085 | 757 73 ² | | 54.6 |
| | | F | 1 320 291 | 171 149 | 1 149 142 | | 87.0 |
| 1005 | 10 + | MF | 2 917 439 | 1 007 068 | 1 910 371 | | <i>65.5</i> |
| 1905 | .0 , | M | 1 492 975 | 764 444 | 728 531 | | 48.8 |
| | | F | 1 424 464 | 242 624 | 1 181 840 | _ | 83.0 |
| 1010 | 10 + | MF | 3 135 251 | 1 314 848 | 1 803 283 | 17 120 | 57.8 |
| 1910 | 10 , | M | 1 598 602 | 941 844 | 648 517 | 8 241 | 40.8 |
| | | F | 1 536 649 | 373 004 | 13154 766 | 8 879 | 75.6 |
| -000 | 10 + | MF | 3 732 483 | 1 987 779 | 10 101 1 728 642 | 5 961 | 46.7 |
| 1920 | 10 | M | 1 851 941 | 1 260 753 | 6 311 581 685 | 3 192 | 31.8 |
| | | F | 1 880 542 | 727 026 | 3 790 г 146 957 | 2 769 | 61.3 |
| -006 | 10 + | MF | 4 128 788 | 2 491 465 | 13 151 1 624 141 | 31 | <i>39 · 7</i> |
| 1926 | 10 — | M | 2 056 012 | 1 535 867 | 7 687 512 440 | 18 | 25.3 |
| | | F | 2 072 776 | 955 598 | 5 464 1 111 701 | 13 | 53.9 |
| | -0 | MF | 4 643 694 | 3 184 776 | 1 457 365 | I 553 | 31.4 |
| 1934 | 10 + | M | 2 322 342 | 1 869 956 | 451 838 | 548 | 19.5 |
| | | F | 0 0. | 1 314 820 | 1 005 527 | 1 005 | 43.3 |
| | | Г | 2 321 352 | 1 314 020 | * 00J:J-1 | | 10 0 |

TABLE

⊳

| _ | | | | | Number of Pe | rson | | |
|-------------------------------|---------------------------------------|---------------|--|------------------------|------------------|----------------------------------|----------------------|--|
| Country and census year | Age level (years) | Sex | Total population at specified age level ¹ | Can read and write | Can read only | Can neither read nor write | Literacy unstated | Percentage of illiteracy ² |
| Burma 3 | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| 1901 | + or | MF | 7 613 489 | 2 162 721 | 5 450 | 768 | | 71.6 |
| | | M | 3 918 434 | 1 952 322 | 1 966 | 112 | | 50.2 |
| | | \mathbf{F} | 3 695 0 55 | 210 399 | 3 484 | | | $94 \cdot 3$ |
| 1911 | + or | MF | 8 869 556 | 2 609 118 | 6 260 | 438 | | 70.6 |
| _ | | M | 4 579 246 | 2 269 341 | 2 309 | 905 | | 50.4 |
| | | \mathbf{F} | 4 290 310 | 339 777 | 3 950 | 533 | | 92.1 |
| 1921 | + or | \mathbf{MF} | 9 899 712 | 3 536 913 | 6 362 | 799 | | 64.3 |
| | | \mathbf{M} | 5 119 917 | 2 948 198 | 2,171 | | | 42.4 |
| | | \mathbf{F} | 4 779 795 | 588 715 | 4 191 | 080 | | 87.7 |
| 1931 | + or | MF | 10 828 282 | 4 347 904 | 6 480 | 378 | | 59.8 |
| | | M | 5 582 146 | 3 429 627 | 2 152 | | | 38.6 |
| | | F | 5 246 136 | 918 277 | 4 327 | 859 | | 82.5 |
| Canada | | | | | | | | |
| 1901 | 5 + | \mathbf{MF} | 4 728 631 | 3 918 915 | 129 584 | 680 132 | | 17.I |
| 1911 | 5 + | \mathbf{MF} | 6 319 160 | 5 622 844 | 32 863 | 663 4 <u>5</u> 3 | | 11.0 |
| | | M | 3 373 77 ⁶ | 2 983 876 | 16 320 | 373 58o | | 11.6 |
| | | \mathbf{F} | 2 945 384 | 2 638 968 | 16 543 | 289 873 | | 10.4 |
| 1921 | 5 + | MF | 7 730 833 | 6 957 412 | 58 25 4 | 715 167 | | 10.0 |
| | | \mathbf{M} | 3 996 496 | 3 574 837 | 31 534 | 390 125 | | 10.6 |
| | | F | 3 734 337 | 3 3 ⁸ 2 575 | 26 7 20 | 325 042 | | 9.4 |
| 1921 | 10 + | \mathbf{MF} | 6 682 072 | 6 298 704 | 42 349 | 341 019 | | <i>5</i> ·7 |
| | | M | 3 467 796 | 3 245 7 56 | 23 298 | 198 742 | _ | 6.4 |
| | | \mathbf{F} | 3 214 276 | 3 052 948 | 19 051 | 142 277 | | 5.0 |
| 1931 | + or | \mathbf{MF} | 8 169 622 | 7 821 819 | 38 4 07 | 309 396 | | 4 ·3 |
| | | M | 4 258 862 | 4 053 007 | 22 028 | 183 827 | | 4.8 |
| | | \mathbf{F} | 3 910 760 | 3 768 812 | 16 379 | 125 569 | | 3.6 |

| Newfoundland | | | | | | | | |
|--------------|----------------|------------------|-------------------|------------------|-----------|----------|-------------|-------|
| 1921 | r + | \mathbf{MF} | 190 714 | 144 792 | 2 530 | 43 392 | | 24. I |
| 1935 | 10 + | MF | 221 384 | 174 337 | 6 589 | 40 458 | | 21.3 |
| | | M | 114 335 | 86 685 | 3 241 | 24 409 | | 24.2 |
| | | \mathbf{F} | 107 049 | 87 652 | 3 348 | 16 049 | | 18.1 |
| 1945 | + or | \mathbf{MF} | 242 946 | 210 064 | 2 889 | 29 072 | 921 | 13.2 |
| | | M | 124 756 | 105 101 | 1 334 | 17 826 | 495 | 15.4 |
| | | \mathbf{F} | 118 190 | 104 963 | 1 555 | 11 246 | 426 | 10.9 |
| Ceylon | | | - | | | _ | _ | |
| 1901 | 5 + | \mathbf{MF} | 2 927 178 | 773 196 | 2 153 98 | ? | | 73.6 |
| • | | M | 1 567 518 | 657 615 | 909 909 | | **** | 58.0 |
| | | \mathbf{F} | 1 359 660 | 115 581 | 1 244 079 | 9 | | 91.5 |
| 1911 | 5 + | MF | 3 498 375 | 1 082 828 | 2 415 54 | 7 | | 69.0 |
| - | _ | M | 1 863 160 | 878 766 | 984 39 | 1 | | 52.8 |
| | | \mathbf{F} | 1 635 215 | 204 062 | 1 431 15 | | | 87.5 |
| 1921 | 5 + | MF | 3 854 394 | 1 536 948 | 2 317 44 | 6 | | 60. I |
| - | | M | 2 052 669 | 1 155 518 | 897 15 | | - | 43.7 |
| | | F | 1 801 72 5 | 381 430 | 1 420 29 | 5 | | 78.8 |
| 1946 | 5 + | \mathbf{MF} | 5 795 900 | 3 352 789 | 2 443 II. | 7 | | 42.2 |
| | | M | 3 094 786 | 2 170 747 | 924 039 | 9 | | 29.9 |
| | | \mathbf{F} | 2 701 114 | 1 182 042 | 1 519 079 | 2 | | 56.2 |
| Chile 4 | | | | | | | | |
| 1907 | + | \mathbf{MF} | 2 408 497 | 1 206 347 | I | 202 150 | | 49.9 |
| | | M | ı 19 7 337 | 635 851 | | 561 486 | | 46.9 |
| | | \boldsymbol{F} | 1 211 160 | 5 7 0 496 | | 640 664 | | 52.9 |
| 1920 | 10 + | \mathbf{MF} | 2 773 110 | 1 749 114 | I | 023 996 | | 36.o |
| | | M | 1 370 267 | 884 7 07 | | 485 560 | | 35.4 |
| | | \mathbf{F} | 1 402 843 | 864 407 | | 538 436 | | 38.4 |
| 1930 | + or | \mathbf{MF} | 3 162 161 | 2 309 504 | | 746 154 | 106 503 | 24.4 |
| | | M | 1 556 632 | 1 169 589 | | 333 678 | 53 365 | 22.2 |
| | | \mathbf{F} | 1 605 529 | 1 139 915 | | 412 476 | 53 138 | 26.6 |
| | | | | | | | | |

TABLE

⋗

| _ | | _ | | N | umber of p | ersons | | |
|-------------------------------|----------------------|---------------|--|-----------------------|------------------|----------------------------------|----------------------|-------------------------------|
| Country and census year | Age level (years) | Sex | Total population at specified age level ¹ | Can read and write | Can read only | Can neither nread or write | Literacy unstated | Percentage of illiteracy * |
| Chile (cont.) | | | | | | | | |
| 1940 | 10 + | \mathbf{MF} | 3 766 679 | 2 703 670 | | 971 449 | 91 560 | 26.4 |
| | | M | 1 854 307 | 1 363 841 | | 444 802 | 45 664 | 24.6 |
| | | \mathbf{F} | 1 912 372 | 1 339 829 | | 526 647 | 45 896 | 28.2 |
| Colombia 4 | | | | • • • • | | | | |
| 1918 | 10 + | \mathbf{MF} | 3 846 283 | | | *2 215 654 | | 57.6 |
| | | \mathbf{M} | 1 832 036 | | | *998 499 | | 54.5 |
| | | F | 2 014 247 | | | *1 217 155 | | 60.4 |
| 1928 | + 01 | MF | 5 610 715 | * * * | | 2 717 585 | | 48.4 |
| - | | M | 2 810 400 | | | 1 297 333 | | 46.2 |
| | | F | 2 800 315 | • • • | | 1 420 252 | | 50. 7 |
| 1938 | 10 + | MF | 6 112 712 | 3 413 338 | | 2 699 374 | | 44.2 |
| | | M | 3 008 587 | 1 752 579 | | 1 256 008 | | 41.7 |
| | | \mathbf{F} | 3 104 125 | 1 66o 759 | | 1 443 366 | | 46.5 |
| Cuba 4,5 | | | | | | | | |
| 1899 | 10 + | \mathbf{MF} | 1 215 810 | 491 046 | 32 772 | 690 565 | I 427 | <i>56.9</i> |
| | | M | 634 515 | 8270 919 | 11 905 | 351 691 | | ⁷ 55⋅4 |
| | | \mathbf{F} | 581 295 | ⁶ 221 554 | 20 867 | 338 874 | | ⁷ 58.3 |
| 1907 | 10 + | \mathbf{MF} | 1 481 573 | 833 152 | | 643 615 | 4 806 | 43.6 |
| | | M | 787 412 | ⁴ 459 023 | | 328 389 | | ⁷ 41.7 |
| | | \mathbf{F} | 694 161 | 6378 935 | | 315 226 | | $^{7}45 \cdot 4$ |
| 1919 | + or | \mathbf{MF} | 2 041 971 | 1 245 165 | | 784 659 | 12 147 | <i>38.7</i> |
| | | M | 1 100 308 | 6683 144 | | 417 164 | | ³37·9 |
| | | F | 941 663 | ⁶ 574 168 | | 367 495 | | ⁷ 39.0 |
| 1931 | 10 + | MF | 2 924 537 | 2 095 836 | | 824 556 | 4 145 | 28.2 |
| | | M | 1 575 388 | 81 103 567 | | 471 821 | | ⁷ 29.9 |
| | | ${f F}$ | 1 349 149 | ⁶ 996 414 | | 352 735 | | ⁷ 26.1 |

| Cuba (cont.) | | | | | | | | |
|--------------------|------------|---------------|------------------|-------------------|-----------|------------|-------------|---------------|
| 1943 | 10 + | \mathbf{MF} | 3 575 434 | 2 550 847 | | 789 301 | 235 286 | 23.6 |
| | | M | 1 881 265 | 1 317 464 | | 436 762 | 127 039 | 24.9 |
| | | F | 1 694 169 | 1 233 383 | | $35^2 539$ | 108 247 | 22.2 |
| Egypt ⁸ | | | | | | | | |
| 1907 | 10 + | \mathbf{MF} | 7 848 024 | <i>570 721</i> | 7 277 303 | | _ | 92.7 |
| | | M | 3 953 o59 | 515 162 | 3 437 897 | , | | 87.0 |
| | | \mathbf{F} | 3 894 965 | 55 559 | 3 839 406 | j . | | 98.6 |
| 1917 | + or | \mathbf{MF} | 9 161 944 | *804 483 | *8 | 357 461 | | *91.2 |
| | | M | 4 606 077 | * 701 633 | *3 | 904 444 | | *84.8 |
| | | \mathbf{F} | 4 555 867 | *102 850 | *4 | 453 017 | | * 97·7 |
| 1927 | + or | \mathbf{MF} | 10 287 778 | 1 4 51 803 | 8 816 601 | - | 19 374 | 85.9 |
| | | M | 5 126 179 | 1 222 815 | 3 894 114 | ł | 9 250 | 76. ı |
| • | | \mathbf{F} | 5 161 599 | 228 988 | 4 922 487 | | 10 124 | 95.6 |
| 1937 | 10 + | \mathbf{MF} | 11 604 283 | 1 718 188 | 9 885 300 |) | 79 5 | 85.2 |
| 007 | · | \mathbf{M} | 5 836 896 | 1 368 006 | 4 468 449 | 2 | 448 | 76.6 |
| | | \mathbf{F} | 5 767 387 | 350 182 | 5 416 858 | 3 | 347 | $93 \cdot 9$ |
| Finland | | | | | | | | |
| 1900 | 15 + | \mathbf{MF} | 1 775 626 | *688 410 *1 | o6o 955 | 26 261 | According. | 61.2 |
| Ü | - | M | 869 945 | | | 13 466 | | 58.4 |
| | | \mathbf{F} | 905 681 | | | 12 795 | | 64.o |
| 1910 | 15 + | \mathbf{MF} | 1 874 036 | | 816 217 | 21 560 | | 44.7 |
| · · | | \mathbf{M} | 904 388 | 519 938 | 373 367 | 11 083 | | 42.5 |
| | | \mathbf{F} | 969 648 | 516 321 | 442 850 | 10 477 | _ | 46.8 |
| 1920 | 15 + | \mathbf{MF} | 2 057 227 | 1 437 860 | 598 821 | 20 546 | | 30.1 |
| • | • | M | 978 644 | | 272 174 | 11 024 | | 28.9 |
| | | F | 1 078 583 | | 326 647 | 9 522 | | 31.2 |
| 1930 | 15 + | \mathbf{MF} | 2 375 102 | | 355 228 | 21 857 | _ | 15.9 |
| JJ . | 5 , | \mathbf{M} | I 139 375 | | 160 147 | 11 68o | - | 15.1 |
| | | \mathbf{F} | 1 235 727 | | 195 081 | 10 177 | | 16.6 |
| | | | | ~ • - | | | | |

TABLE

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| | | _ | | | Number of persons | | | |
|-------------------------------|----------------------|---------------|--|-----------------------|--|----------------------|--|--|
| Country and census year | Age level (years) | Sex | Total population at specified age level ¹ | Can read and write | Can read Can neither only read nor write | Literacy unstated | Percentage of illiteracy ² | |
| France | | | | | | | | |
| 1901 | 10 + | \mathbf{MF} | 31 662 848 | 25 954 633 | 5 128 299 | 579 916 | 16.5 | |
| | | M | 15 525 565 | 13 206 564 | 2 062 802 | 256 199 | 13.5 | |
| | | \mathbf{F} | 16 137 283 | 12 748 069 | 3 065 497 | 323 717 | 19.4 | |
| 1906 | 10 + | \mathbf{MF} | 31 965 209 | 26 921 047 | 4 419 492 | 624 670 | 14.1 | |
| | | \mathbf{M} | 15 648 227 | 13 617 277 | 1 762 319 | 268 631 | 11.5 | |
| | | \mathbf{F} | 16 316 982 | 13 303 770 | 2 657 173 | 3 56 039 | 16.6 | |
| 1911 | + or | \mathbf{MF} | 32 408 090 | 28 017 558 | 3 792 <u>5</u> 66 | 597 966 | II.g | |
| | | \mathbf{M} | 15 842 778 | 14 069 529 | 1 506 921 | 266 328 | 9.7 | |
| | | \mathbf{F} | 16 565 312 | 13 948 029 | 2 285 645 | 331 638 | 14.1 | |
| 1921 | + or | \mathbf{MF} | 33 397 913 | 29 779 811 | 2 657 271 | g6o 831 | 8.2 | |
| | | \mathbf{M} | 15 729 146 | 14 241 851 | 1 056 544 | 430 751 | 6.9 | |
| | | \mathbf{F} | 17 668 7 67 | 15 537 960 | ı 600 727 | 530 080 | 9.3 | |
| 1926 | + or | \mathbf{MF} | 34 294 850 | 31 094 749 | 2 026 222 | 1 173 879 | 6.1 | |
| | | \mathbf{M} | 16 314 353 | 14 948 103 | 830 190 | 536 060 | $5 \cdot 3$ | |
| | | \mathbf{F} | 17 980 497 | 16 146 646 | 1 196 032 | 637 819 | 6.9 | |
| 1931 | 10 + | \mathbf{MF} | 34 108 683 | 31 188 679 | 1 730 809 | 1 189 195 | 5.3 | |
| | | \mathbf{M} | 16 309 790 | 15 012 616 | 749 393 | 547 781 | 4.8 | |
| | | \mathbf{F} | 17 798 893 | 16 176 063 | 981 416 | 641 414 | 5.7 | |
| 1936 | 10 + | \mathbf{MF} | 34 514 056 | 32 160 198 | 1 326 469 | 1 027 389 | 4.0 | |
| | | \mathbf{M} | 16 443 315 | 15 421 693 | 566 9 8 5 | 454 637 | 3.5 | |
| | | \mathbf{F} | 18 070 741 | 16 738 505 | 759 4 ⁸ 4 | 572 752 | 4.3 | |
| 1946 | 10 + | \mathbf{MF} | 34 232 423 | 31 738 532 | 1 115 268 | 1 378 623 | 3.4 | |
| | | M | 16 036 393 | 14 965 356 | 492 500 | 578 537 | 3.2 | |
| | | \mathbf{F} | 18 196 030 | 16 773 176 | 622 768 | 800 086 | $\frac{3}{3}.6$ | |

| | | | | | Number of per | sons | | |
|-------------------------------|----------------------|---------------|--|------------------------|------------------|----------------------------------|----------------------|--|
| Country and census year | Age level (years) | Sex | Total population at specified age level ¹ | Can read and write | Can read only | Can neither read nor write | Literacy unstated | Percentage of illiteracy ² |
| Hungary (con | nt.) | | | | | | | |
| 1910 12 | 15 + | \mathbf{MF} | 11 813 555 | 7 998 876 | 3 814 6 | 579 | | 32.3 |
| | | M | 5 821 810 | 4 284 519 | | 191 | | 26.4 |
| | | \mathbf{F} | 5 991 745 | 3 7 ¹ 4 357 | 2 277 3 | 88 | _ | 38.o |
| 1920 ¹³ | 15 + | \mathbf{MF} | 5 536 588 | 4 792 495 | 744 | 93 | | 13.4 |
| Ü | ū | \mathbf{M} | 2 642 705 | 2 364 645 | 278 0 | | | 10.5 |
| | | \mathbf{F} | 2 893 883 | 2 427 850 | 466 c | 933 | | 16.1 |
| 1930 ¹³ | 15 + | \mathbf{MF} | 6 295 049 | 5 664 588 | 630 g | <i>161</i> | | 10.0 |
| 55 | • | M | 3 040 682 | 2 800 138 | 240 5 | 544 | | 7 ·9 |
| | | \mathbf{F} | 3 254 367 | 2 864 450 | 389 9 | 17 | | 12.0 |
| 19 4 1 ¹³ | 15 + | \mathbf{MF} | 6 898 492 | 6 449 187 | 26 522 | 410 919 | 11 864 | 6.4 |
| 31 | 5 . | \mathbf{M} | 3 339 741 | 3 165 314 | 5 365 | 162 300 | 6 762 | 5.0 |
| | | F | 3 558 751 | 3 283 873 | 21 157 | 24 8 619 | 5 102 | 7.6 |
| India 14 | | | | | | | | |
| 1901 | ro + | \mathbf{MF} | 207 070 426 | 12 909 812 | 194 160 | | ***** | 93.8 |
| Ü | | M | 105 956 997 | 12 207 365 | 93 749 | 632 | | 88.5 |
| | | \mathbf{F} | 101 113 429 | 702 447 | 100 410 | 982 | - | 99.3 |
| 1911 | + or | \mathbf{MF} | 218 189 879 | 15 304 162 | 202 885 | | _ | 93.0 |
| J | | \mathbf{M} | 112 471 222 | 14 159 352 | 98 311 | 870 | | 87.4 |
| | | F | 105 718 657 | 1 144 810 | 104 573 | 847 | | 98.9 |
| 1921 | + or | \mathbf{MF} | 219 751 721 | 18 147 889 | 201 603 | 832 | | 91.7 |
| 3 · | • | M | 114 014 278 | 16 193 421 | 97 820 | 857 | | 85.8 |
| | | \mathbf{F} | 105 737 443 | 1 954 468 | 103 782 | 975 | | 98.2 |
| 1931 | + or | \mathbf{MF} | 240 716 606 | 21 962 564 | 218 754 | 042 | | 90.9 |
| - 55 - | • | M | 124 800 920 | 19 141 172 | 105 659 | | | 84.7 |
| | | F | 115 915 686 | 2 821 392 | 113 094 | | | 97.6 |

| Tanka A | | | | | | | |
|--------------------|-------|---------------|------------|--------------------|-------------|-------------|--------------|
| Italy 4 | 10 + | MF | 24 705 851 | 12 795 383 | 11 910 468 | | 48.2 |
| 1901 | 10 | M | 12 196 405 | 7 113 141 | 5 083 264 | | 41.7 |
| | | F | 12 509 446 | 5 682 242 | 6 827 204 | | 54.6 |
| | | MF | 26 607 926 | 16 613 518 | 9 842 872 | 151 536 | 37.2 |
| 1911 | + or | M | | 8 780 311 | 4 064 309 | 69 172 | 31.6 |
| | | F | 12 913 792 | 7 833 207 | 5 778 563 | 82 364 | 42.5 |
| 15 | 1 | _ | 13 694 134 | 21 366 560 | 8 111 594 | | 27.5 |
| 1921 15 | + | MF | 29 478 154 | | 3 462 512 | | 24.0 |
| | | M | 14 411 532 | 10 949 020 | 4 649 082 | _ | 30.9 |
| | | F | 15 066 622 | 10 417 540 | 8 288 264 | | 26.8 |
| 1921 ¹⁶ | 10 +- | MF | 30 758 420 | 22 530 156 | | | 23.3 |
| | | M | 15 053 191 | 11 538 355 | 3 514 836 | | 20.0 30.0 |
| | | \mathbf{F} | 15 705 229 | 10 991 801 | 4 713 428 | | 21.6 |
| 1931 | + or | \mathbf{MF} | 32 120 508 | 25 172 157 | 6 948 351 | | |
| | | M | 15 528 070 | 12 763 368 | 2 764 702 | | 17.8 |
| | | \mathbf{F} | 16 592 438 | 12 408 789 | 4 183 649 | | 25.2 |
| Mexico | | | _ | | 0060. | | n |
| 1900 | 10 + | \mathbf{MF} | 9 822 220 | 2 185 761 350 378 | 7 286 081 | _ | 77 • 7 |
| | | M | 4 819 686 | 1 277 203 164 840 | 3 377 643 | | 73·5 81.8 |
| | | \mathbf{F} | 5 002 534 | 908 558 185 538 | | | |
| 1910 | + or | \mathbf{MF} | 10 809 090 | 2 992 026 279 650 | 7 537 414 | | 72.3 |
| ŭ | | M | 5 286 213 | 1 680 918 125 266 | 3 480 029 | | 68.2 |
| | | F | 5 522 877 | 1 311 108 154 384 | 4 057 385 | | 76.3 |
| 1921 ¹⁷ | 10 + | \mathbf{MF} | 10 538 622 | 3 564 767 — | 6 973 855 | | 66.2 |
| -3 | ••, | M | 5 074 276 | 1 878 434 | 3 195 842 | | 63.0 |
| | | \mathbf{F} | 5 464 346 | ı 686 333 — | 3 778 013 | | 69.1 |
| 1930 | 10 + | MF | 11 748 936 | 4 525 035 261 384 | 4 6 962 517 | | 61.5 |
| 1930 | 10 , | M | 5 681 300 | 2 460 614 119 740 | | | 56.7 |
| | | F | 6 067 636 | 2 064 421 141 644 | | | 66.o |
| 1040 | 10 + | MF | 13 960 139 | 6 416 188 345 196 | | | 54.0 |
| 1940 | 10 - | M | 6 806 218 | 3 401 089 168 699 | | | 50.0 |
| | | F | 7 153 921 | 3 015 099 176 497 | | | 57.9 |
| | | T. | 1 133 921 | יופד יוי פפי ניי נ | 3 3 - 3 - 3 | | |

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| | | M F | 495 662 354 009 | 465 118 335 263 | 6 219 4 442 | 22 077 12 812 | 2 248 1 492 | 5·7 4·9 |
|-------------------------------|-----------|---------------|---|--------------------|----------------|-----------------------|----------------|--------------|
| pean or population 1904 | 10 + | MF | 849 671 | 800 381 | 10 661 | 34 889 | 3 740 | 5· 4 |
| | Euro- | | | | | | | |
| | | F | 6 916 514 | 1 119 033 | 17 385 | 5 779 896 | _ | 83.8 |
| V | | M | 6 811 429 | 3 o 66 740 | 17 593 | 3 727 096 | na-re-re-re- | 55.0 |
| 1945 | 10 + | \mathbf{MF} | 13 727 943 | 4 185 773 | 35 178 | 9 506 992 | | 69.5 |
| | | \mathbf{F} | 5 795 707 | 573 936 | 17 724 | 5 204 047 | | 90.1 |
| •333 | | M | 5 294 040 | 1 691 534 | 22 908 | 3 579 59 ⁸ | | 68.o |
| 1935 | + or | MF | 11 089 747 | 2 265 470 | 40 632 | 8 783 64 5 | | 79.6 |
| | | F | 7 074 864 | 259 | | 6 814 895 | | 496.3 |
| 1927 | TIII uges | M | 6 554 624 | 851 | | 5 703 097 | | 487.0 |
| Turkey | All ages | MF | 13 629 488 | I III | 496 | 12 517 992 | | 491.8 |
| | | F | 10 983 826 | 7 857 361 | 3 126 | 465 | | 28.5 |
| Ŭ. | | M | 9 886 629 | 8 178 353 | ı 708 | | | 17.3 |
| 1940 | 10 + | \mathbf{MF} | 20 870 455 | 16 035 714 | 4 834 | | | 23.2 |
| | | \mathbf{F} | 8 739 946 | 4 206 028 | 93 362 | 4 384 111 | 56 44 5 | 51.6 |
| - 3 | | M | 8 065 902 | 5 152 522 | 42 480 | 2 822 247 | 48 653 | $35 \cdot 7$ |
| 1920 | 10 ÷ | MF | 16 805 848 | 9 358 550 | 135 842 | 7 206 358 | 105 098 | 44.0 |
| | | F | 7 945 242 | 3 062 694 | 181 250 | 4 673 068 | 28 230 | 61.3 |
| 1910 | 10 + | M | 7 355 576 | 4 232 890 | 75 217 | 3 025 289 | 22 180 | $42 \cdot 3$ |
| *0*0 | 10 + | MF | 15 300 818 | 7 295 584 | 256 467 | 7 698 357 | 50 410 | 52.2 |
| | | F | 7 412 900 | 2 263 889 | 254 400 | 4 884 513 | 10 098 | 69.4 |
| 1900 | 10 + | MF M | 14 343 977 6 931 077 | 3 651 981 | 110 810 | 3 158 856 | 9 430 | 47.2 |
| Spain | 1 | MATE | * | 5 915 870 | 365 210 | 8 043 369 | 19 528 | 58.7 |

| ~ | | | m . 1 | | | | | Nu | mber of p | erso | ns | | | | |
|-------------------------------|----------------------|---------------|-------------------------------------|-----|--------|-------|--------------|-----|-----------------|------|-----|-------------------------|-----|-------|-----------------------------|
| Country and census year | Age level (years) | Sex | Total popu at specif age leve | ied | | an re | | | in read only | | I | neither ead write | | eracy | Percentage of illiteracy |
| Union of Sou (European) | | | | | | | | | | | | - | | | |
| 1911 | 10 + | \mathbf{MF} | 935 2 | 240 | 90 | 6 | 117 | 6 | 382 | | 2I | 856 | | 885 | 3.0 |
| | | M | 512 3 | 6r | 49 |)5 · | 492 | 3 | 593 | | 12 | 765 | | 511 | 3.2 |
| | | \mathbf{F} | 422 8 | 379 | 4 | 0 | 625 | 2 | 789 | | 9 | 160 | | 374 | 2.8 |
| 1918 | 10 - | \mathbf{MF} | 1 043 8 | 364 | I OI | 5 | 065 | 8 | 757 | | 12 | 907 | 7 | 135 | 2.I |
| - | | M | 536 3 | | 51 | 9 | 293 | 4 | 744 | | 7 | 499 | 4 | 793 | 2.3 |
| | | \mathbf{F} | 507 5 | 35 | 49 | 95 | 772 | 4 | 013 | | 5 | 408 | 2 | 342 | 1.9 |
| Native po | opu- | | | | | | | | | | | | | | - |
| 1904 ¹⁹ | All ages | \mathbf{MF} | 2 590 9 | 146 | 15 | 32 | 738 | 29 | 355 | 2 | 424 | 129 | 4 | 724 | 94.9 |
| | _ | M | 1 312 4 | .09 | 7 | 71 | 710 | 15 | 822 | 1 | 223 | 266 | I | 611 | 94.5 |
| | | \mathbf{F} | 1 278 5 | 37 | ě | δı (| 028 | 13 | 533 | I | 200 | 863 | 3 | 113 | 95.2 |
| 1911 | All ages | \mathbf{MF} | 4 019 0 | 06 | 27 | 73 | 802 | 46 | 593 | 3 | 696 | 479 | 2 | 132 | 93.2 |
| _ | _ | M | 2 022 9 | 49 | 14 | 5 | 218 | | 056 | | 852 | | I | 393 | 92.8 |
| | | \mathbf{F} | 1 996 с | 57 | | | 584 | 22 | 537 | I | 844 | 197 | | 739 | 93.6 |
| 1921 | All ages | \mathbf{MF} | 4 697 8 | | 45 | 55 | 3 9 8 | 68 | 930 | 4 | 161 | 361 | 12 | 124 | 90.3 |
| | - | M | 2 382 3 | | 24 | 13 | 633 | | 475 | | 094 | | 6 | 833 | 89.7 |
| | | \mathbf{F} | 2 315 4 | .16 | | | 765 | 31 | 455 | 2 | o66 | 905 | 5 | 291 | 90.8 |
| 1946 | All ages | \mathbf{MF} | 7 831 9 | 15 | 1 62 | 9 9 | 912 | 136 | 623 | 5 | 912 | 478 | | 902 | 78.8 |
| 1946 | + or | \mathbf{MF} | ²⁰ 5 715 7 | 35 | I 54 | 14 | 104 | 109 | 746 | 3 | 942 | 889 | 118 | 996 | 72.4 |
| | | M | 2 948 9 | | 82 | 15 | 773 | 61 | 403 | 2 | 004 | 523 | 61 | 297 | 71.5 |
| | | \mathbf{F} | 2 766 7 | 39 | 79 | 22 | 331 | 48 | 343 | I | 938 | 36 6 | 57 | 699 | $73 \cdot 3$ |
| United States | | | | | | | | | | | | | | | |
| 1900 | 10 + | \mathbf{MF} | 57 949 8 | 34 | 51 76 | 9 | <i>755</i> | | 6 180 | 069 | 9 | | | | 10.7 |
| | | M | 29 703 4 | | 26 60 |)2 : | 216 | | 3 011 | | | | | | 10.1 |
| | | \mathbf{F} | 28 246 3 | 84 | 25 07 | 7 ! | 539 | | 3 168 | 845 | 5 | | | | 11.2 |

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| United States | s (cont.) | | | | | | |
|---------------|-----------------|---------------|-------------|--------------|-------------------|-------------------|---|
| 1910 | 10 + | \mathbf{MF} | 71 580 270 | 66 064 107 | 5 516 168 | — 7·7 | 7 |
| Ü | | | 37 027 558 | 34 212 608 | 2 814 950 | — 7. 6 | |
| | | \mathbf{F} | 34 552 712 | 31 851 499 | 2 701 213 | 7.8 | |
| 1920 | 10 $+$ | \mathbf{MF} | 82 739 315 | 77 807 410 | 448 340 4 483 565 | 6.6 |) |
| J | | | 42 289 969 | 39 749 760 | 216 060 2 324 149 | 6.0 |) |
| | | | 40 449 346 | 38 057 650 | 232 280 2 159 416 | 5·S | • |
| 1930 | 10 + | \mathbf{MF} | 98 723 047 | 94 439 294 | 4 283 753 | 4.3 | 3 |
| 50 | | | 49 949 798 | 47 751 505 | 2 198 293 | 4.4 | 1 |
| | | \mathbf{F} | 48 773 249 | 46 687 789 | 2 085 460 | - 4.3 | 3 |
| 1940 | + or | | 110 443 129 | *107 194 000 | *3 249 000 | - *2.9 | 9 |
| Yugoslavia 4 | | | | | | | |
| 1931 | $_{\rm II}$ $+$ | \mathbf{MF} | 9 882 547 | 5 418 339 | 55 737 4 408 | 471 644.0 | 6 |
| 33 | | M | 4 828 744 | 3 250 368 | 20 445 I 557 | 931 6 32.5 | |
| | | \mathbf{F} | 5 053 803 | 2 167 971 | 35 292 2 850 | 540 6 56.4 | 4 |
| 1948 | 10 + | \mathbf{MF} | 12 438 502 | | 3 162 980 | 25. | 4 |
| 71 | | M | 5 884 381 | | 906 703 | 15.4 | 4 |
| | | \mathbf{F} | 6 554 121 | | 2 256 277 | 34.4 | 4 |

¹ Unless otherwise noted, the total population at specified age level includes

persons of age unknown.

Unless otherwise noted, the percentage of illiteracy is computed on the number of persons who cannot both read and write as related to the total population less the number of persons of literacy unstated.

³ Excluding all who were not enumerated for literacy. They numbered, for all ages, approximately 127,000 in 1901, 76,000 in 1911, 43,000 in 1021 and 20,000 in 1931.

* Percentage of illiteracy computed on number of persons who can neither read nor write.

⁵ Persons 10 years old and over and attending school were counted as able to read in the censuses 1800, 1907 and 1919.

Including literacy unstated.

7 Computed on the total population including literacy unstated.

8 Excluding the nomadic population, estimated at 40,000 in 1927 and 12,000 in 1937.

Old boundaries, i.e., excluding territories added to Greece after the Balkan wars and the first world war.

10 Not including persons of literacy unstated.

11 New boundaries, i.e., according to the treaty of Lausanne.

18 Territory of the former Kingdom of Hungary, less Croatia and Slavonia. 18 Territory of the Trianon Treaty.

14 Pre-partition India: figures excluding those not enumerated for literacy, whose numbers were, for all ages, approximately 800,000 in 1901; 1,700,000 in 1911; 2,800,000 in 1921; and 3,000,000 in 1931.

Old boundaries, i.e., excluding Venezia Tridentina and Venezia Giulia.
 New boundaries, i.e. including Venezia Tridentina and Venezia Giulia.

17 Not including the population of certain municipios in six states, and the territory of Quintana Roo, which were not enumerated.

18 Native population only. 19 Excluding natives in Natal.

20 Excluding 26,476 persons of age unspecified.

Table B. ILLITERATE POPULATION IN 26 COUNTRIES, DISTRIBUTED BY AGE AND SEX

Latest census available

| Country, | | Male | | | Female | |
|-------------------------------------|---------------------------|---------------------------------------|------------------------|---------------------------|---------------------------------------|------------------------|
| census year and age ¹ | Total number of persons 2 | Persons not able to read and write | Per cent illiterate | Total number of persons 2 | Persons not able to read and write | Per cent illiterate |
| Argentina (1947) | | | | | | |
| 14 and over | 5 828 722 | 705 198 | I2.I | 5 490 174 | 836 480 | 15.2 |
| 14-29 | 2 335 732 | 194 483 | 8.3 | 2 319 708 | 192 248 | 8.3 |
| 30-49 | 2 236 531 | 241 415 | ю.8 | 2 046 819 | 289 757 | 14.2 |
| 50 and over | 1 229 509 | 253 824 | 20.6 | 1 085 651 | 327 907 | 30.2 |
| Unknown | 26 950 | 15 476 | $57 \cdot 4$ | 37 996 | 26 568 | 69.9 |
| Belgium (1930) | | | | | | |
| 7 and over | 3 533 315 | 184 632 | 5.2 | 3 617 179 | 217 523 | 6.0 |
| 7-14 | 462 868 | 17 111 | $3 \cdot 7$ | 454 805 | 15 640 | 3.4 |
| 15-20 | 396 180 | 5 528 | 1.4 | 391 768 | 3 693 | 0.9 |
| 21-59 | 2 232 546 | 103 102 | 4.6 | 2 257 484 | 102 043 | 4.5 |
| 60 and over | 441 721 | 58 891 | 13.3 | 513 122 | 96 147 | 18.7 |
| Brazil (1940) | | | | | | |
| 10 and over | 14 391 759 | 7 440 905 | 51.7 | 14 559 204 | 9 011 927 | 61.9 |
| 10-14 | 2 668 750 | 1 615 691 | 60.5 | 2 632 842 | 1 567 760 | 59.5 |
| 15-19 | 2 152 384 | 1 156 237 | 53.7 | 2 281 021 | 1 263 370 | 55.4 |
| 20-29 | 3 476 492 | 1 678 374 | 48.3 | 3 676 325 | 2 164 177 | 58.9 |
| 30-39 | 2 460 458 | 1 129 317 | 45.9 | 2 429 087 | 1 535 289 | 63.2 |

| Brazil (cont.) 40-49 50-59 60 and over Unknown | 1 785 337 1 051 124 783 368 13 846 | 876 731 533 9 ² 5 445 0 ² 5 5 605 | 49.1 50.8 56.8 40.5 | 1 647 704 988 596 887 027 16 602 | 1 123 029 690 992 658 482 8 828 | 68.2 69.9 74.2 53.2 |
|--|--|--|--|--|--|---|
| Bulgaria ³ (1934) 10 and over 10-14 15-19 20-24 25-34 35-44 45-54 55-64 65 and over Unknown | 2 322 342 369 677 224 540 289 875 507 237 333 559 265 663 170 138 160 959 694 | 451 838 38 317 28 667 39 274 77 104 53 491 56 259 62 054 96 418 254 | 19.5 10.4 12.8 13.5 15.2 16.0 21.2 36.5 59.9 36.6 | 2 321 352 355 020 217 998 282 687 497 420 346 343 288 771 176 596 156 009 508 | 1 005 527 41 802 36 306 72 349 170 273 182 166 207 196 149 869 145 313 253 | 43.3 11.8 16.7 25.6 34.2 52.6 71.8 84.9 93.1 49.8 |
| Burma (1931) 10 and over 10-14 15-19 20 and over Canada (1931) 10 and over 10-14 15-19 20-24 25-34 | 5 582 146 845 623 693 377 4 043 146 4 258 862 542 930 525 250 463 722 778 111 706 844 | 2 152 519 520 457 264 871 1 367 191 205 855 7 200 11 158 13 537 31 492 34 475 | 38.6 61.5 38.2 33.8 4.8 1.3 2.1 2.9 4.0 4.9 | 5 246 136 815 384 719 238 3 711 514 3 910 760 531 121 514 341 447 463 717 006 627 718 | 4 327 859 683 728 568 077 3 076 054 141 948 5 687 6 965 9 464 21 242 23 449 22 988 | 82.5 83.9 79.0 82.9 3.6 1.1 7 2.1 8 2.1 8 3.0 E 3.7 4.7 8 |

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| Egypt (1937) | | | | | | | | | | | | |
|-------------------|----------------|--------------|----------------|-------------|--------------|--------------|--------|---|-----|--------------|------|------|
| 10 and over | 5 836 | 448 | 4 468 | 442 | 76.6 | 5 7 6 | 7 040 | 5 | 416 | 858 | 93.9 | |
| 10-14 | 1 030 | | 742 | | 72.0 | | 8 114 | Ţ | 750 | | 85.5 | |
| 15-19 | 713 | 145 | 551 | | 77 · 3 | | 3 040 | | 570 | | 90.1 | |
| 20-29 | 1 156 | 232 | 874 | 807 | 75.7 | | 8 059 | 1 | 184 | | 94.2 | |
| 30-39 | 1 158 | | 889 | 117 | 76.8 | | 5 123 | | 132 | | 96.4 | |
| 40-49 | 819 | 823 | 634 | 128 | 77.3 | | 5 379 | | 762 | | 97.0 | |
| 50-59 | 474 | | | o6o | 78.8 | 4 6 | 9 717 | | 458 | | 97·5 | |
| 60 and over | 465 | 003 | 388 | | 83.5 | | 8 410 | | 540 | | 98.6 | |
| Unknown | 18 | | 14 | 100 | 77· 7 | | 9 198 | | | 048 | 94.0 | |
| Finland 4 (1930) | | | | | | | | | | | | |
| 15 and over | 1 139 | 375 | 171 | 827 | 15.1 | 1 23 | 5 727 | | 205 | 258 | 16.6 | |
| France (1946) | | | | | | | | | | | | |
| 10 and over | 15 4 57 | 856 | 492 | 500 | 3.2 | 17 30 | 5 944 | | 622 | 768 | 3.6 | |
| 10-13 | 1 138 | 628 | | 979 | 1.4 | | 4 324 | | | 895 | 1.1 | |
| 14-59 | 11 814 | | | 789 | 2.7 | | 8 238 | | | 515 | 2.3 | |
| 60 and over | 2 501 | | | 147 | 6.4 | | 8 468 | | | 834 | 9.0 | |
| Unknown | 3 | 5 7 5 | | 585 | 16.4 | | 4 914 | | J-J | 5 2 4 | 10.7 | |
| Greece (1928) | | | | | | | | | | | | |
| 10 and over | 2 313 | 666 | 551 | 613 | 23.8 | 2 37 | 5 237 | I | 410 | 717 | 59·4 | |
| 10-14 | 306 | | | o 83 | 10.5 | | 7 875 | | - | 586 | 28.3 | |
| 15-19 | 335 | | | 707 | 18.4 | | 1 367 | | | 889 | 42.2 | |
| 20-24 | 254 | 457 | 41 | 546 | 16.3 | | 0 218 | | | 221 | 47.2 | |
| 25 - 34 | 428 | 582 | 72 | 353 | 16.9 | 44 | 8 686 | | | 246 | 58.o | -1 |
| 35 -44 | 319 | 896 | 81 | 547 | 25.5 | | 3 776 | | | 716 | 70.0 | > |
| 45-54 | 293 | | | 170 | 32.8 | | lo 350 | | | 387 | 77·5 | \$20 |
| 55-64 | 195 | | 78 | 493 | 40. I | | 3 938 | | | 205 | 82.6 | H |
| 65 and over | 171 | 180 | 8 ₅ | 134 | 49.7 | | 80 876 | | | 592 | 87.1 | Ţ |
| Unknown | | 724 | | 580 | 29.6 | | 8 151 | | | 875 | 72.1 | ᄧ |
| | | | | | | | | | | | | |

| Country, | | Male | | | Female | |
|-------------------------------------|---------------------------|---------------------------------------|------------------------|---------------------------|---------------------------------------|------------------------|
| census year and age ¹ | Total number of persons 2 | Persons not able to read and write | Per cent illiterate | Total number of persons 2 | Persons not able to read and write | Per cent illiterate |
| Honduras (1945) | | | | | | |
| 7 and over | 470 388 | 303 182 | 64.5 | 467 360 | 318 867 | 68.2 |
| 7-14 | 122 809 | 90 168 | 73.4 | 115 518 | 86 295 | 74.7 |
| 15-19 | 67 019 | 43 154 | 64.4 | 66 853 | 41 372 | 61.9 |
| 20-24 | 59 206 | 36 499 | 61.6 | 60 818 | 37 185 | 61.1 |
| 25 and over | 221 354 | 133 361 | 60.2 | 224 171 | 154 015 | 68.7 |
| Hungary (1941) | | | | | | |
| 6 and over | 4 081 716 | 262 092 | 6.4 | 4 290 080 | 361 513 | 8.4 |
| 6-11 | 492 183 | 89 552 | 18.2 | 482 246 | 86 965 | 18.0 |
| 12-14 | 256 554 | 4 875 | 1.9 | 254 185 | 4 772 | 1.9 |
| 15-19 | 447 513 | 7 685 | 1.7 | 442 175 | 7 625 | 1.7 |
| 20-29 | 668 242 | 16 352 | 2.4 | 692 260 | 19 257 | 2.8 |
| 30-39 | 769 250 | 34 2 89 | 4.5 | 763 927 | 40 670 | 5.3 |
| 40-49 | 574 244 | 23 470 | 4 · I | 639 501 | 38 586 | 6.0 |
| 50-59 | 409 806 | 24 206 | 5.9 | 4 ⁸ 4 455 | 49 384 | 10.2 |
| 60 and over | 463 472 | 61 501 | 13.3 | 530 652 | 113 942 | 21.5 |
| Unknown | 452 | 162 | 35.8 | 679 | 312 | 45.9 |
| India (1931) | | | | | | |
| 10 and over | 124 800 920 | 105 659 748 | 84.7 | 115 915 686 | 113 094 294 | 97.6 |
| 10-14 | 20 727 071 | 18 690 604 | 90.2 | 18 246 138 | 17 733 864 | 97.2 |
| 15-19 | 15 346 901 | 12 643 802 | Š2.4 | 15 178 276 | 14 625 141 | 96.4 |
| 20 and over | 88 318 731 | 73 924 597 | 83.7 | 82 141 721 | 80 385 807 | 97.9 |
| Unknown | 408 217 | 400 745 | 98.2 | 349 551 | 349 482 | 100.0 |

| I tal; | y 4 , | 5 | (1931 |) |
|--------|--------------|---|-------|---|
| | | | | |

| 10 and over | 15 528 070 | 2 764 702 | 17.8 | 16 592 438 | 4 183 649 | 25.2 |
|--------------------|------------------|-----------|------|------------|-----------|---------|
| 10-14 | 1 619 347 | 133 867 | 8.3 | 1 566 698 | 144 225 | 9.2 |
| 15-19 | 2 032 278 | 230 264 | 11.3 | 2 013 767 | 246 307 | 12.2 |
| 20-29 | 3 474 993 | 407 088 | 11.7 | 3 563 884 | 536 407 | 15.1 |
| 30-39 | 2 489 306 | 343 755 | 13.8 | 2 890 159 | 614 646 | 21.3 |
| 40-49 | 2 062 667 | 385 800 | 18.7 | 2 403 870 | 706 151 | 29.4 |
| 50-64 | 2 406 849 | 671 213 | 27.9 | 2 578 774 | 1 037 860 | 40.2 |
| 65 and over | 1 436 552 | 590 221 | 41.1 | 1 568 892 | 894 664 | 57.0 |
| Unknown | 6 078 | 2 494 | 41.0 | 6 394 | 3389 | 53.0 |
| Mexico (1940) | | | | | | |
| 10 and over | 6 806 218 | 3 405 129 | 50.0 | 7 153 921 | 4 138 822 | 57.9 |
| 10-14 | 1 246 795 | 680 714 | 54.6 | I 155 924 | 629 086 | 54.4 |
| 15-39 | 3 765 997 | 1 759 719 | 46.7 | 4 059 409 | 2 224 467 | 54.8 |
| 40 and over | I 790 759 | 962 999 | 53.8 | 1 936 522 | 1 283 880 | $66{3}$ |
| Unknown | 2 667 | 1 697 | 63.6 | 2 066 | 1 389 | 67.2 |
| Philippines (1948) | | | | | | |
| 10 and over | 6 439 056 | 2 294 134 | 35.6 | 6 545 476 | 2 730 348 | 41.7 |
| 10-14 | 1 245 776 | 428 113 | 34.4 | 1 190 263 | 382 166 | 32.1 |
| 15-19 | 984 009 | 238 915 | 24.3 | 1 045 877 | 263 645 | 25.2 |
| 20-24 | 841 231 | 210 084 | 25.0 | 899 556 | 277 905 | 30.9 |
| 25-34 | 1 232 865 | 388 403 | 31.5 | 1 325 114 | 515 330 | 38.9 ⊣ |
| 35 -44 | 927 700 | 342 418 | 36.9 | 922 510 | 447 371 | 48.5 ≽ |
| 45-54 | 563 5 7 0 | 268 176 | 47.6 | 547 131 | 353 400 | 64.6 ₩ |
| 55 - 64 | 342 373 | 201 160 | 58.8 | 323 519 | 246 608 | 76.2 F |
| 65 and over | 301 196 | 216 835 | 72.0 | 291 369 | 243 906 | 83.7 |
| Unknown | 316 | 30 | 9.5 | 137 | 17 | 12.4 w |
| | | | | | • | |

| Country, | | Male | | Female | | | |
|--------------------------|---------------------------|---------------------------------------|------------------------|---------------------------|---------------------------------------|------------------------|--|
| census year and age 1 | Total number of persons a | Persons not able to read and write | Per cent illiterate | Total number of persons 2 | Persons not able to read and write | Per cent illiterate | |
| Portugal 5, 6 (1940) | | | | | | | |
| 10 and over | 2 859 930 | 1 235 831 | 43.2 | 3 197 360 | 1 924 007 | 60.2 | |
| 10-14 | 408 344 | 147 061 | 36.o | 395 012 | 175 616 | 44.5 | |
| 15-19 | 373 o88 | 140 841 | 37.8 | 375 394 | 181 916 | 48.5 | |
| 20-24 | 314 829 | 111 601 | $35 \cdot 4$ | 315 853 | 168 142 | 53.2 | |
| 25-34 | 564 474 | 238 289 | 42.2 | 601 048 | 353 775 | 58.9 | |
| 35-44 | 424 659 | 187 449 | 44.I | 493 629 | 304 168 | 61.6 | |
| 45-54 | 324 853 | 154 912 | 47.7 | 396 494 | 270 504 | 68.2 | |
| 55-64 | 239 601 | 130 277 | 54.4 | 308 149 | 228 103 | 74.0 | |
| 65 and over | 199 427 | 118 336 | $59 \cdot 3$ | 298 865 | 232 633 | 77.8 | |
| Unknown | 10 655 | 7 o65 | 66.3 | 12 916 | 9 150 | 70.8 | |
| Spain (1940) | | | | | | | |
| 10 and over | 9 886 629 | 1 708 276 | 17.3 | 10 983 826 | 3 126 465 | 28.5 | |
| 10-14 | 1 376 332 | 268 543 | 19.5 | 1 365 103 | 285 639 | 20.9 | |
| 15-19 | 1 248 068 | 178 533 | 14.3 | 1 297 114 | 207 420 | 16.0 | |
| 20-24 | 1 014 912 | 95 215 | 9.4 | 1 167 204 | 199 520 | 17.1 | |
| 25-34 | 1 880 836 | 203 612 | 10.8 | 2 100 914 | 464 475 | 22.1 | |
| 35-44 | 1 559 197 | 231 924 | 14.9 | 1 715 932 | 491 249 | 28.6 | |
| 45-54 | 1 199 574 | 240 874 | 20.1 | 1 323 703 | 477 115 | 36.o | |
| 55-64 | 888 061 | 239 907 | 27.0 | 1 043 117 | 468 173 | 44.9 | |
| 65 and over | 719 649 | 249 668 | $34 \cdot 7$ | 970 739 | 532 874 | 54.9 | |
| Turkey (1945) | | | | | | | |
| 10 and over | 6 811 42 9 | <i>3 744 689</i> | 55.0 | 6 916 514 | 5 797 481 | 83.8 | |
| 10-14 | 1 284 952 | . 663 927 | 51.7 | 1 074 080 | 744 165 | 6g.3 | |
| 15-19 | 1 048 701 | 499 181 | 47.6 | 931 461 | 677 748 | 72.8 | |

| Turkey (cont.) | | | | | | | | | | | | |
|-----------------------------------|----|-----|-----|-------|-----|------------------|------|--------|-------|------|--------------|-----|
| 20-24 | | 789 | 205 | 303 | 513 | 38.5 | | 91 68o | | 937 | 76.o | |
| 25-34 | 1 | 215 | 611 | 557 | 288 | 45.8 | | 18 726 | 1 123 | 863 | 85.2 | |
| 35-44 | I | 149 | 678 | 691 | 274 | 6о. 1 | | 36 390 | 1 031 | 920 | 90.8 | |
| 45-54 | | 684 | 235 | 495 | 440 | 72.4 | | 12 606 | | 977 | $94 \cdot 4$ | |
| 55-64 | | | 070 | 298 | 953 | 8o.6 | | 68 605 | | 691 | 97.0 | |
| 65 and over | | 256 | 683 | 225 | 790 | 88.o | 3 | 69 860 | 362 | 921 | 98.1 | |
| Unknown | | | 294 | 9 | 323 | 82.5 | | 13 106 | 12 | 259 | $93 \cdot 5$ | |
| Union of South Africa 7 (1946) | | | | | | | | | | | | |
| 10 and over | 2 | 962 | 511 | 2 139 | 297 | 72.2 | 27 | 79 700 | 2 056 | 538 | 74.0 | |
| 10-19 | | 899 | 762 | 664 | 716 | $73 \cdot 9$ | 8 | 52 533 | | 252 | 67.1 | |
| 20-29 | | | 030 | 484 | 031 | 68.4 | 6. | 41 187 | 437 | o86 | 68.2 | |
| 30-39 | | | 594 | 386 | 026 | 68.9 | 4 | 85 255 | 363 | 857 | 75 · O | |
| 40-49 | | | 527 | 283 | 319 | 72.5 | 3 | 44 098 | | 928 | 80.5 | |
| 50-59 | | 190 | 110 | | 252 | $75 \cdot 9$ | I | 94 791 | 165 | 733 | 85. ı | |
| 60 and over | | 199 | 973 | 164 | 879 | 82.5 | 2 | 48 875 | 228 | 552 | 91.8 | |
| Unknown | | 13 | 515 | 12 | 074 | 89.3 | | 12 961 | 12 | 130 | 93.6 | |
| United States 4 (1930) | | | | | | | | | | | | |
| 10 and over | 49 | 949 | 798 | 2 198 | 293 | 4 · 4 | 48 7 | 73 249 | 2 085 | 460 | 4.3 | |
| 10-14 | | 068 | | | 030 | I.4 | 5 9 | 36 100 | 58 | 410 | Ι.Ο | |
| 15-19 | 5 | 757 | 825 | 140 | 632 | 2.4 | | 94 290 | 81 | 310 | 1.4 | |
| 20-24 | 5 | 336 | 815 | 173 | 019 | 3.2 | 5 5 | 33 563 | 121 | 341 | 2.2 | |
| 25 - 34 | 9 | 421 | 966 | 323 | 919 | $3 \cdot 4$ | 9 5 | 32 063 | 294 | 347 | 3.1 | H |
| 35-44 | | 816 | | 433 | 510 | 4.9 | 8 3 | 82 521 | 454 | 445 | $5 \cdot 4$ | ≻ |
| 45-54 | | 803 | | 441 | 883 | $6.\overline{5}$ | 6 2 | 14 514 | 422 | 550 | 6.8 | ᄧ |
| 55-64 | | 367 | | | 907 | 7.0 | 40 | 29 398 | | 904 | 7.5 | LE |
| 65 and over | | 325 | 211 | 296 | 105 | 8.9 | 3 3 | 08 594 | 346 | 86 I | 10.5 | (T) |
| Unknown | | 51 | 818 | 3 | 288 | 6.3 | | 42 206 | 3 | 292 | 7.8 | 듔 |

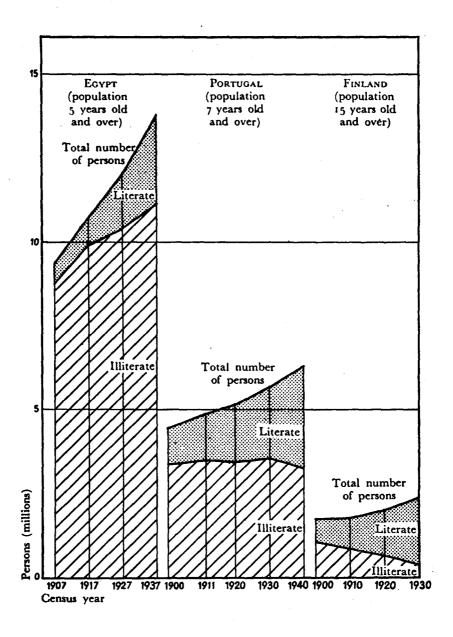
| Country, | | Male | | Female | | | | |
|---|--|--|---|---------------------------|---------------------------------------|------------------------|--|--|
| census year and age ¹ | Total number of persons ² | Persons not able to read and write | Per cent illiterate | Total number of persons 2 | Persons not able to read and write | Per cent illiterate | | |
| Yugoslavia ⁵ (1948) | | | | | | | | |
| 10 and over | 5 884 381 | 906 703 | 15.4 | 6 554 121 | 2 256 277 | 34.4 | | |
| 10-14 | 914 830 | 100 707 | 11.0 | 883 211 | 177 802 | 20.1 | | |
| 15-24 | 1 533 898 | 104 140 | 6.8 | 1 639 156 | 297 283 | 18.1 | | |
| 25-44 | 181 088 1 | 247 725 | 13.2 | 2 105 196 | 708 615 | 33.7 | | |
| 45 and over 8 | 1 555 472 | 454 131 | 29.2 | 1 926 558 | 1 072 577 | 55.7 | | |
| Persons of age unknown a Unless otherwise noted, of Including persons (10 year Question on literacy omit Figures appearing under Including persons (10 year Native population only, Including persons (age u | excluding literacy unstature old and over) of liter thed from subsequent control the heading 'Persons pars and over) of literatincluding persons (10 | ed. acy unstated: 548 males nsuses. not able to read and w cy unstated: 82,115 ms years old and over) of | ; 1,005 females. vrite' refer to pale; 129,566 fen | ersons not able to read | | | | |

LIST OF GRAPHS

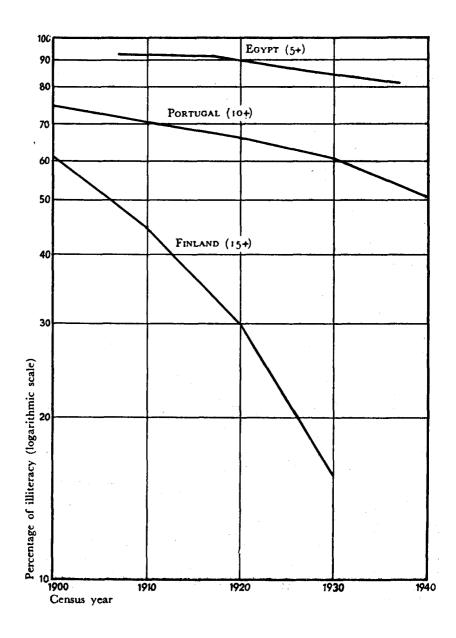
- Increase or decrease in number of literates and illiterates in three selected countries.
- 2. Rate of progress in reduction of illiteracy in three selected countries.
- 3. Number of literates and illiterates and percentage of illiteracy in Argentina (population 14 years old and over: 1895-1947).
- 4. Number of literates and illiterates and percentage of illiteracy in Belgium (population 7 years old and over: 1900-30).
- 5. Number of literates and illiterates and percentage of illiteracy in Brazil (population 15 years old and over: 1900-40).
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- 7. Number of literates and illiterates and percentage of illiteracy in Burma (population 10 years old and over: 1901-31).
- 8. Number of literates and illiterates and percentage of illiteracy in Canada (population 5 years old and over: 1901-31).
- 9. Number of literates and illiterates and percentage of illiteracy in Ceylon (population 5 years old and over: 1901-46).
- 10. Number of literates and illiterates and percentage of illiteracy in Chile (population 10 years old and over: 1907-40).
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- 12. Number of literates and illiterates and percentage of illiteracy in Cuba (population 10 years old and over: 1899-1943).
- 13. Number of literates and illiterates and percentage of illiteracy in EGYPT (population 10 years old and over: 1907-37).
- 14. Number of literates and illiterates and percentage of illiteracy in Finland (population 15 years old and over: 1900-30).
- 15. Number of literates and illiterates and percentage of illiteracy in France (population 10 years old and over: 1901-46).
- 16. Number of literates and illiterates and percentage of illiteracy in GREECE (population 8 years old and over: 1907-28).
- 17. Number of literates and illiterates and percentage of illiteracy in HONDURAS (population 7 years old and over: 1930-45).
- 18. Number of literates and illiterates and percentage of illiteracy in Hungary (population 6 years old and over: 1900-41).
- 19. Number of literates and illiterates and percentage of illiteracy in INDIA (population 10 years old and over: 1901-31).

- 20. Number of literates and illiterates and percentage of illiteracy in ITALY (population 10 years old and over: 1901-31).
- 21. Number of literates and illiterates and percentage of illiteracy in Mexico (population 10 years old and over: 1900-40).
- 22. Number of literates and illiterates and percentage of illiteracy in the Philippines (population 10 years old and over: 1939-48).
- 23. Number of literates and illiterates and percentage of illiteracy in PORTUGAL (population 10 years old and over: 1900-40).
- 24. Number of literates and illiterates and percentage of illiteracy in Spain (population 10 years old and over: 1900-40).
- 25. Number of literates and illiterates and percentage of illiteracy in Turkey (population 10 years old and over: 1935-45).
- Number of literates and illiterates and percentage of illiteracy in the Union of South Africa (native population, all ages: 1911-46).
- 27. Number of literates and illiterates and percentage of illiteracy in the UNITED STATES (population 10 years old and over: 1900-40).
- 28. Number of literates and illiterates and percentage of illiteracy in Yugoslavia (population 10 years old and over: 1931-48).
- 29. Rate of progress in reduction of illiteracy in 10 countries (population 10 years of age and over).

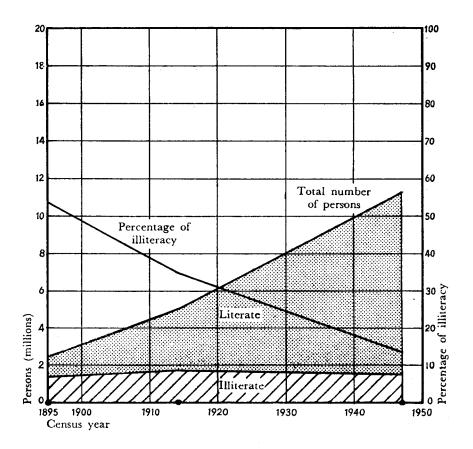
GRAPH 1. Increase or decrease in number of literates and illiterates in three selected countries.



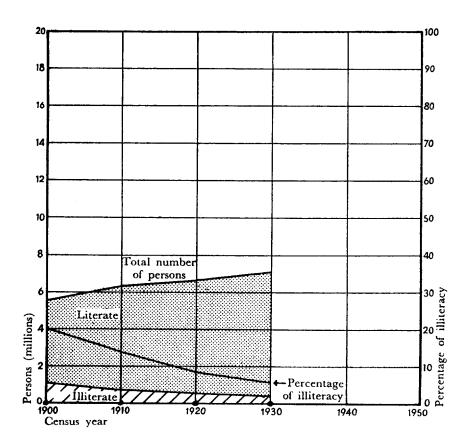
GRAPH 2. Rate of progress in reduction of illiteracy in three selected countries.



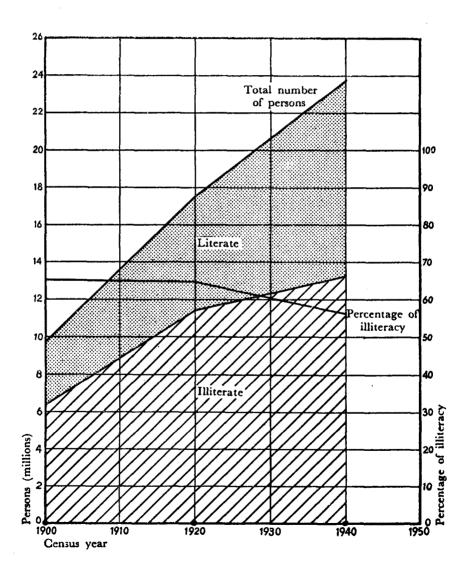
GRAPH 3. Number of literates and illiterates and percentage of illiteracy in Argentina (population 14 years old and over: 1895-1947).



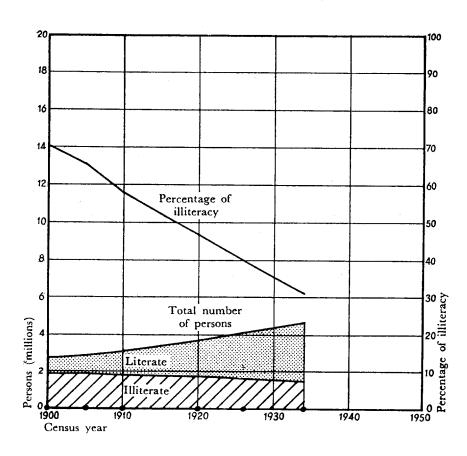
GRAPH 4. Number of literates and illiterates and percentage of illiteracy in Belgium (population 7 years old and over: 1900-30).



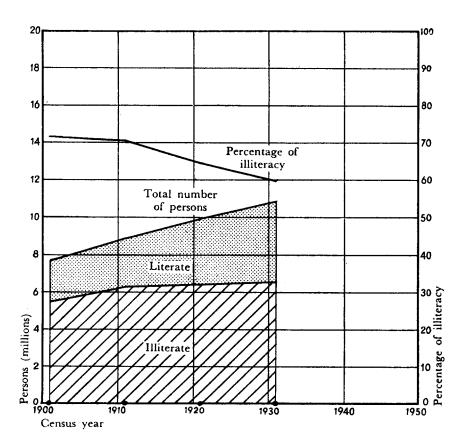
Graph 5. Number of literates and illiterates and percentage of illiteracy in Brazil (population 15 years old and over: 1900-40).



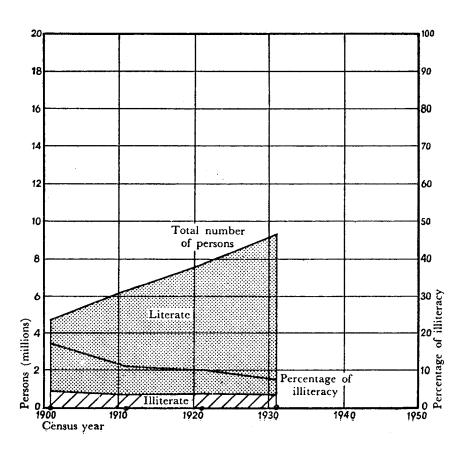
GRAPH 6. Number of literates and illiterates and percentage of illiteracy in Bulgaria (population 10 years old and over: 1900-34).



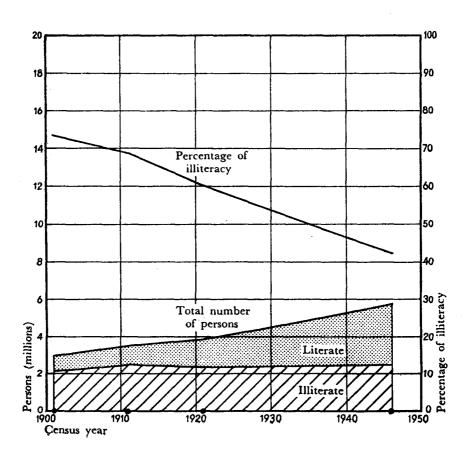
GRAPH 7. Number of literates and illiterates and percentage of illiteracy in Burma (population 10 years old and over: 1900-31).



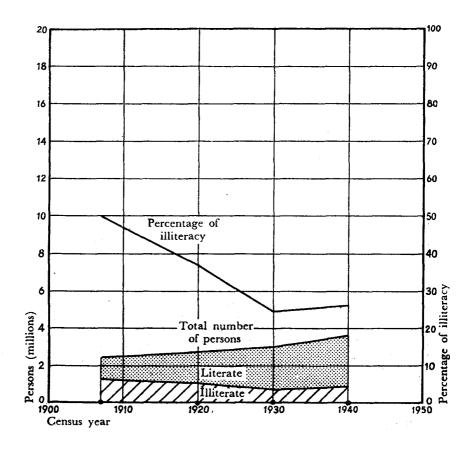
GRAPH 8. Number of literates and illiterates and percentage of illiteracy in Canada (population 5 years old and over: 1901-31).



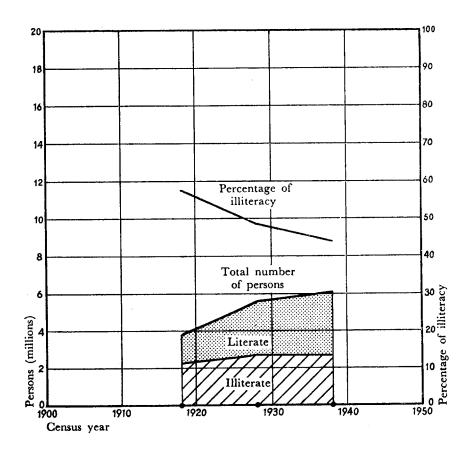
GRAPH 9. Number of literates and illiterates and percentage of illiteracy in Ceylon (population 5 years old and over: 1901-46).



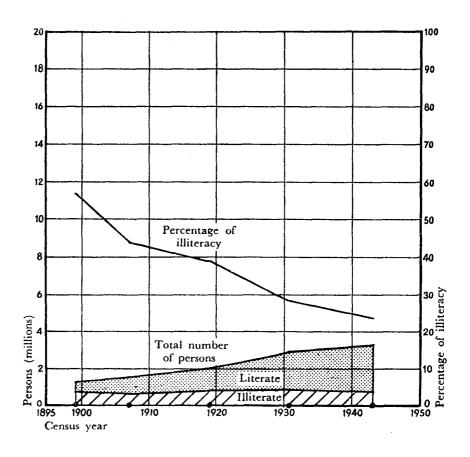
GRAPH 10. Number of literates and illiterates and percentage of illiteracy in CHILE (population 10 years old and over: 1907-40).



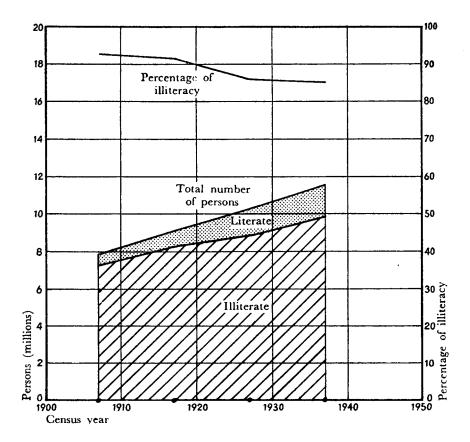
GRAPH II. Number of literates and illiterates and percentage of illiteracy in Colombia (population 10 years old and over: 1918-38).



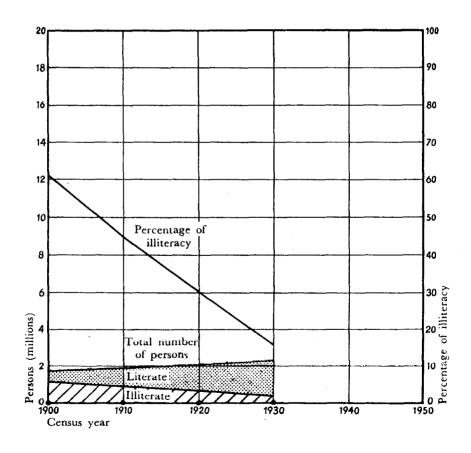
GRAPH 12. Number of literates and illiterates and percentage of illiteracy in Cuba (population 10 years old and over: 1899-1943).



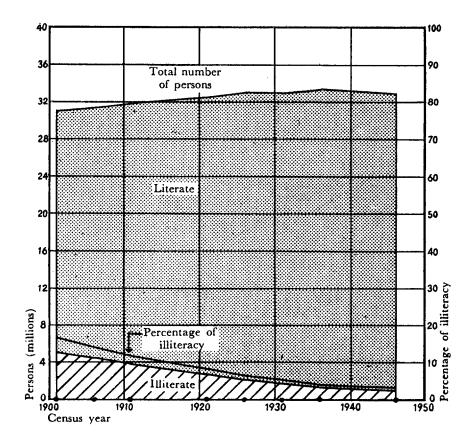
GRAPH 13. Number of literates and illiterates and percentage of illiteracy in EGYPT (population 10 years old and over: 1907-37).



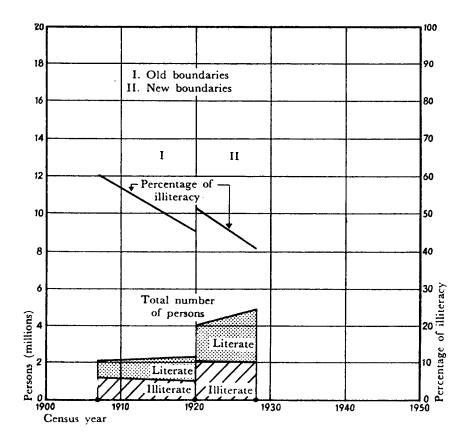
GRAPH 14. Number of literates and illiterates and percentage of illiteracy in Finland (population 15 years old and over: 1900-30).



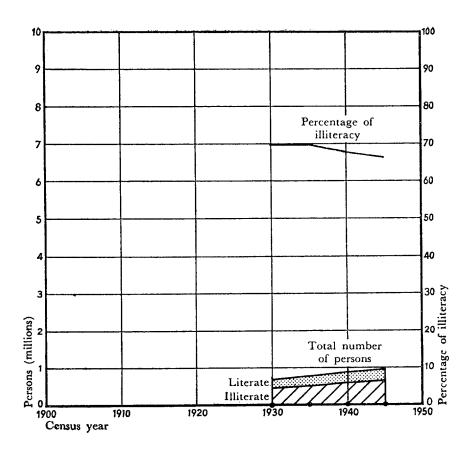
GRAPH 15. Number of literates and illiterates and percentage of illiteracy in France (population 10 years old and over: 1901-46).



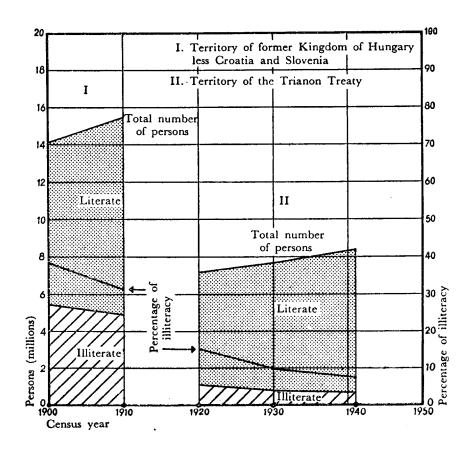
GRAPH 16. Number of literates and illiterates and percentage of illiteracy in Greece (population 8 years old and over: 1907-28).



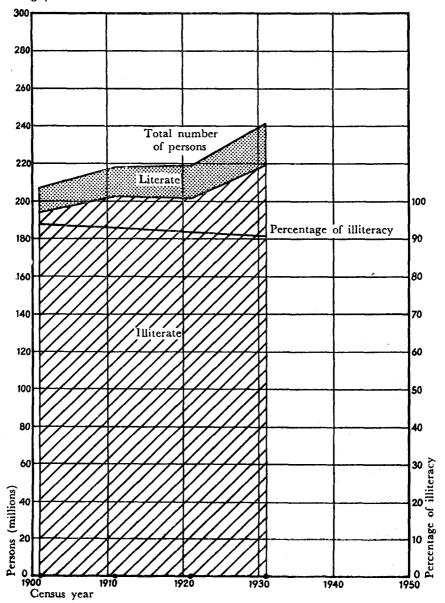
GRAPH 17. Number of literates and illiterates and percentage of illiteracy in Honduras (population 7 years old and over: 1930-45).



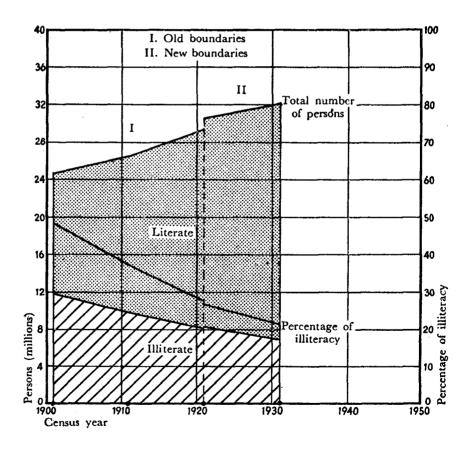
GRAPH 18. Number of literates and illiterates and percentage of illiteracy in Hungary (population 6 years old and over: 1900-41)



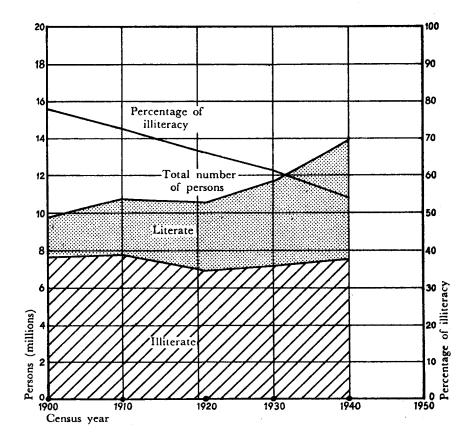
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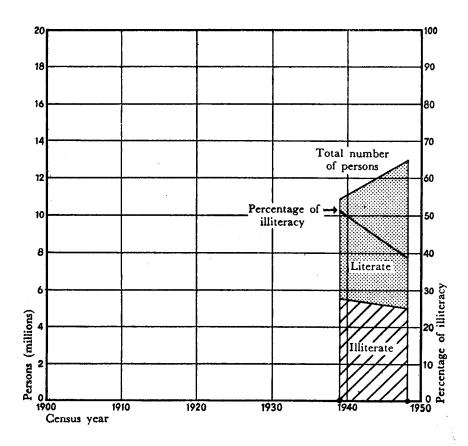
GRAPH 20. Number of literates and illiterates and percentage of illiteracy in ITALY (population 10 years old and over: 1901-31).



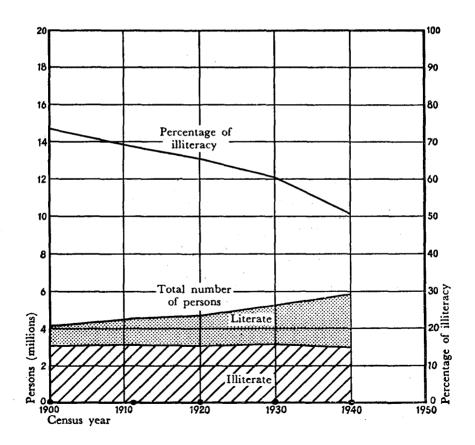
GRAPH 21. Number of literates and illiterates and percentage of illiteracy in Mexico (population 10 years old and over: 1900-40).



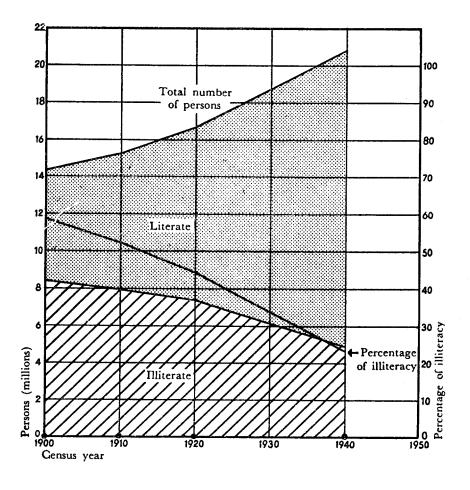
GRAPH 22. Number of literates and illiterates and percentage of illiteracy in the Philippines (population 10 years old and over: 1939-48).



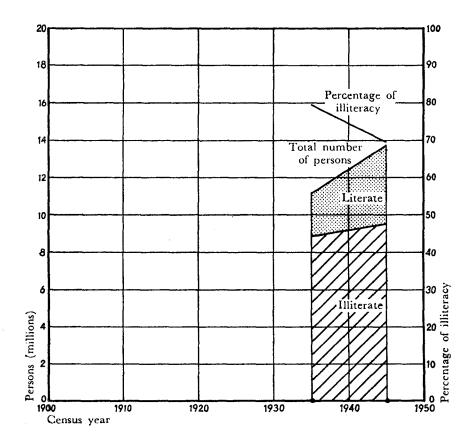
GRAPH 23. Number of literates and illiterates and percentage of illiteracy in Portugal (population 10 years old and over: 1900-40).



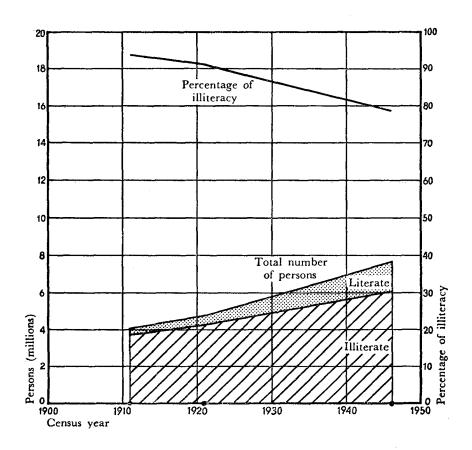
GRAPH 24. Number of literates and illiterates and percentage of illiteracy in SPAIN (population 10 years old and over: 1900-40).



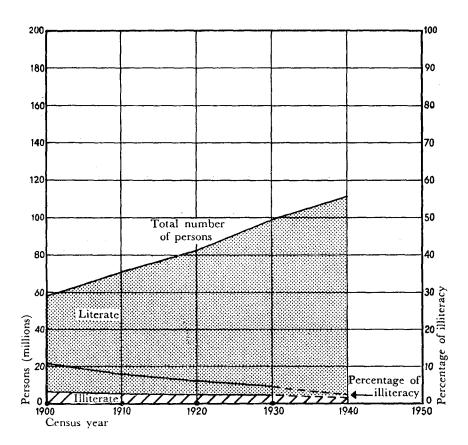
GRAPH 25. Number of literates and illiterates and percentage of illiteracy in Turkey (population 10 years old and over: 1935-45).



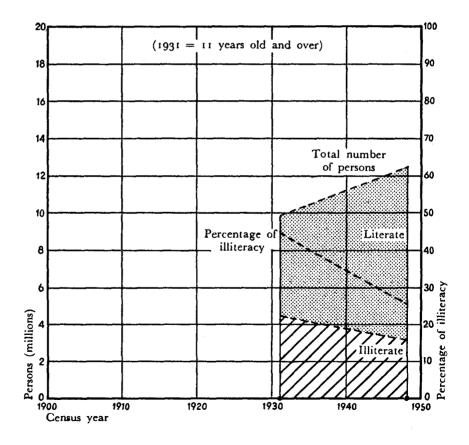
GRAPH 26. Number of literates and illiterates and percentage of illiteracy in the Union of South Africa (native population, all ages: 1911-46).



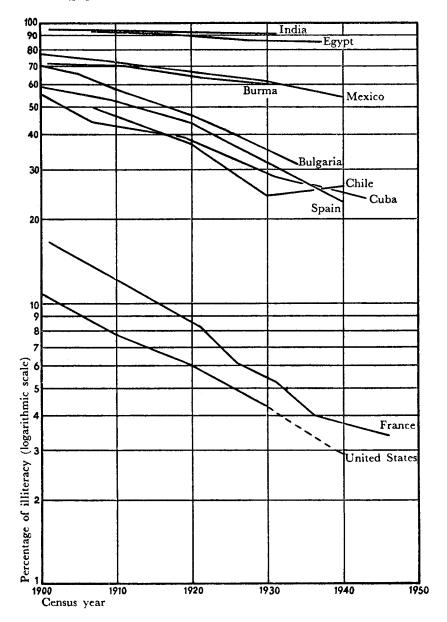
GRAPH 27. Number of literates and illiterates and per centage of illiteracy in the UNITED STATES (population 10 years old and over: 1900-40).



GRAPH 28. Number of literates and illiterates and percentage of illiteracy in Yugoslavia (population 10 years old and over: 1931-48).



Graph 29. Rate of progress in reduction of illiteracy in 10 countries (population 10 years of age and over).



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