# 71-512c c 3 <br> OCCASIONAL 

## special labour force stưties

## No 7


educational attainment in Canada: some regional and social aspects

# SPECIAL LABOUR FORCE STUDIES 

No. 7

# Educational Attainment in Canada: <br> Some Regional and Social Aspects 

by

Michel D. Lagacé

Published by Authority of
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## CATALOGUE No.

71-512

## OCCASIONAL

## Special Labour Force Studies No. 7

Educational Attainment in Canada: Some Regional and Social Aspects

These Tables replace those which appeared on pages 40 and 41 of the original text. The distinction between persons with some university education and those with a university degree in the United States was incorrectly reported in those Tables.

TARIf © 2. Population 14 Yearf of Age and Over, by Age, Level of Education and Sex, United States, March. 1966

| Sex and level of education | Are |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | 14-17 | 18-19 | 20-24 | $\begin{aligned} & 25 \\ & \text { and } \\ & \text { over } \end{aligned}$ |
|  | estimates in thousands |  |  |  |  |
| Both seres | 137,617 | 14.185 | 6,678 | 12.876 | 103,876 |
| Some elementary schoal education or less | 20.406 | 2. 187 | 205 | 471 | :7.544 |
| Completed elementary school education | 20, 133 | 3. 789 | 178 | 526 | 15,639 |
| same secondary school education | 31,420 | 8, 062 | 2. 281 | 2, 217 | 18,859 |
| Completed secondary scheol education | 41,377 | 137 | 3. 195 | 5,654 | 32,391 |
| Some university educatlon | 13, 029 | 9 | 818 | 2,968 | 9. 235 |
| Universlty degree | 11.2*1 | - | - | 1,039 | 10,212 |
| Male | 65. 787 | 7. 184 | 3, 223 | 5,970 | 48, 410 |
| Some elementary school education or less | 10,536 | 1. 234 | 122 | 270 | 8,911 |
| Completed elementary school education | 9,980 | 1.930 | 85 | 271 | 7, 695 |
| Some secondary school education | 14.739 | 3, 967 | 1. 208 | 952 | 8,611 |
| Completed secondary school education | 17,388 | 53 | 1. 388 | 2, 274 | 13.672 |
| Some university education | 8. 423 | - | 420 | 1. 660 | 4,342 |
| University degree | 6.721 | - | - | 543 | 6. 180 |
| Female | 71,830 | 7.001 | 3,456 | 6. 906 | 34. 467 |
| Some elementary school educatlon or less | 9, 869 | 955 | 83 | 201 | 8,633 |
| Completed elementary school education | 10,153 | 1.860 | 94 | 255 | 7.945 |
| Some secondary school education | 16,682 | 4.095 | 1.073 | 1. 265 | 10. 248 |
| Completed secondary school education | 23, 889 | 84 | 1,807 | 3, 380 | 18.719 |
| Some unlversity education | 6,606 | 9 | 398 | 1,309 | 4.892 |
| University degree | 4. 532 | - | - | 496 | 4.032 |
|  | 25-34 | $35 \cdot 44$ | 45-54 | 55-64 | 85 and over |
| lioth sexex | 22,023 | 24. 125 | 22, 188 | 17, 159 | 18, 381 |
| Some elementury school education or less | 1,386 | 2.460 | 3. 320 | 3.861 | 6.517 |
| Completed elementary school education | 1. 252 | 2,299 | 3,286 | 3,875 | 4,927 |
| some secondary school educatlon | 4. 158 | 4,801 | 4. 508 | 3,078 | 2. 314 |
| Completed secondary school education | 9,546 | 9,390 | 7.215 | 3,622 | 2.618 |
| Some university educatlon | 2,647 | 2. 292 | 1,938 | 1,320 | 1.038 |
| University degree | 3,037 | 2,883 | 1,922 | 1.404 | 966 |
| Male | 10. 701 | 11.734 | 10. 974 | 8, 207 | 7.994 |
| Same elementary schnol education or less | 758 | 1.320 | 1.738 | 2,034 | 3, 063 |
| Completad elementary school education | 645 | 1,261 | 1,654 | 1,940 | 2, 195 |
| some secondary school education | 1.839 | 2. 256 | 2,189 | 1,445 | 872 |
| Cumpleted secondary school education | 4.191 | 3.849 | 3.141 | 1. 482 | 1.009 |
| Some universlty educution | 1,374 | 1.110 | 919 | 565 | 374 |
| University degree | 1.894 | 1,939 | 1,124 | 742 | 481 |
| Female | 11.322 | 12,390 | 11.416 | 8, 883 | 10.386 |
| Some elementary school education or less | 626 | 1.141 | 1.584 | 1.826 | 3,456 |
| Completed elementary school education | 607 | 1.038 | 1.633 | 1.935 | 2.732 |
| some secondary school education | 2,319 | 2.544 | 2.309 | 1.633 | 1,441 |
| Completed secondary school education | 5,335 | 5,541 | 4.074 | 2, 141 | 1,608 |
| some university education | 1,273 | 1,181 | 1,019 | 755 | 664 |
| University degree | 1,144 | 944 | 797 | 662 | 485 |

Source: Current Population Reports - "Populatlon Characterlstics" Series P-20, No 158, Page 7. Table 1, U.S. Dept. of Commerce.

TABLE C 3. Percentage Distribution of Population 14 Years of Age and Over, by level of Education, Age and Sex. United States (March, 1966) and Canada (January, 1966)

| Sex and level of education | Age |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 14 \cdot 16 \\ & \text { Canada } \end{aligned}$ | $\begin{gathered} 14 \cdot 17 \\ \text { U.S.A. } \end{gathered}$ | Canada | $\begin{aligned} & 18.19 \\ & \text { U.S.A. } \end{aligned}$ | 20-24 |  | 25-34 |  |
|  |  |  |  |  | Canada | U.S.A. | Canada | U.S.A. |
|  | per cent |  |  |  |  |  |  |  |
| Both sexes | 100.0 | 100.0 | 100.0 | 100.0 | $100.0$ | 100.0 | 100.0 | 100.0 |
| Some elementary school education or less | 15.8 | 15.4 | 6.2 | 3.1 | 8.5 | 3.7 | 13.3 | 6.3 |
| Completed elementary school education | 4.4 | 26.7 | 6.7 | 2.7 | 11.1 | 4.1 | 16.7 | 5.7 |
| Some secondary school education | 78.4 | 56.8 | 60.4 | 34.2 | 36.8 | 17.2 | 36.8 | 18.9 |
| Completed secondary school education | - | 1.0 | 15.5 | 47.8 | 26.2 | 43.9 | 21.0 | 43.3 |
| some unlversity education | - | 0.1 | 10.9 | 12. 2 | 13.1 | 23.1 | 6.0 | 12.0 |
| University degree | - | - |  | - | 4.3 | 8.1 | 6.2 | 13.8 |
| Male | 100.0 | 100.0 | 100.0 | 100. 0 | 100.0 | 100.0 | 100.0 | 100, 0 |
| Some elementary school education or less | 18.6 | 17.1 | 8.0 | 3.7 | 9.2 | 4.6 | 14.3 | 7.1 |
| Completed elementary school education | 4.9 | 26.9 | 6.9 | 2.6 | 12.3 | 4.5 | 18.1 | 6.0 |
| some secondary school education | 75.1 | 55.2 | 63.5 | 37.5 | 35.9 | 15.9 | 35.2 | 17.2 |
| Completed secondery school education | - | 0.7 | 10.2 | 43.1 | 21.2 | 38.1 | 17.8 | 39.2 |
| Some university education |  | - | 11.3 | 13.0 | 16.5 | 27.8 | $\begin{aligned} & 6.4 \\ & 8.2 \end{aligned}$ | $\begin{aligned} & 12.8 \\ & 17.7 \end{aligned}$ |
| Unlversity degree .......................................................... | - | - |  |  | 4.9 | 8.1 |  |  |
| Female | 100.0 | 100.0 | 100.0 | 100.0 | 100. 0 | 100.0 | 100.0 | 100.0 |
| Some elementary school education or less | 12.9 | 13.6 | 4.5 | $2.4$ | 8.0 | 2.9 | 12.2 | 5. 5 |
| Completed elementary school education | 3.9 | 26.6 | 6.7 | $2.7$ | 9.8 | 3.7 | 15.3 | 5.4 |
| Some secondery school education | 81.8 | 58.5 | 57.3 | 31.0 | 37.7 | 18.3 | 38.5 | 20.5 |
| Completed secondary school education |  | 1.2 | 21.0 | 52.3 | 31.0 | 48.9 | 24.2 | $\begin{aligned} & 47.3 \\ & 11.2 \\ & 10.1 \end{aligned}$ |
| Some unlversity education .................. |  | $\begin{gathered} 0.1 \\ - \end{gathered}$ | $10.4$ | $11.5$ | $9.8$ | $19.0$ | $\begin{array}{r} 3.6 \\ 4.2 \end{array}$ |  |
|  | - |  |  | - | $3,7$ | $7.2$ |  |  |
|  | $35-44$ |  | 45-54 |  | 55-64 |  | 85 and over |  |
|  | Canada | U.S.A. | Canada | U.S.A. | Cenada | U.S.A. | Canade | U.S.A. |
|  |  |  |  | per | ent |  |  |  |
| Roth mexem | 100.018.2 | 100.0 | 100.022.7 | 100.0 | 100.0 | 100.0 | 100.039.8 | 100.0 |
| Sume elomentary school education or less |  | 10.2 |  | 15.0 | 30.2 | 100.0 22.5 |  | 35.5 |
| Completed elementary school education ......................... | $21,0$ | 9.5 | 22.7 23.2 | 14.8 | 27.5 | 22.6 | 26.9 | 26.8 |
| Some secondery school education | 32.7 | 19.9 | 28.9 | 20.3 | 21.4 | 17.9 | 16.7 | 12.8 |
| Completed secandary school education ......................... | 17.6 | 38.9 | 16.0 | 32.5 | 13.4 | 21.1 | 11.1 | 14.2 |
| Some unlversity education ............................................ | 4.9 | 9.5 | 4.6 | 8.7 | 3.8 | 7.7 | 2.8 | 5.6 |
| University degree. | 5.6 | 12.0 | 4.6 | 8.7 | 3.7 | 6.2 | 2.7 | 5.3 |
| Male | 100. 0 | 100.0 | 100.0 | 100. 0 | 100.0 | 100.0 | 100.0 | 100. 0 |
| Some elementary school educetion or less ...................... | 19.3 | 11.2 | 24.5 | 16.2 | 32.2 | 24.8 | 43.9 | 38.3 |
| Completed elementary schonl education | 22.2 | 10.7 | 23,8 | 15.4 | 27.6 | 23.6 | 26.2 | 27.5 |
| Some secondary school education | 31.0 | 19.2 | 27.4 | 20.4 | 20.6 | 17.6 | 15.0 | 10.9 |
| Completed secondary school education | 14.5 | 32.8 | 14.0 | 29.1 | 11.0 | 18, 1 | 8.3 | 12.6 |
| Some university education | 5.2 | 9.5 | 4.3 | 8.5 | 3.7 | 6.9 | 2.8 | 4.7 |
| University degree ...................................................... | 7.8 | 16.5 | 6.0 | 10.4 | 4.9 | 9.0 | 3.8 | 6.0 |
| Female | 100.0 | 100.0 | 100. 0 | 100.0 | 100.0 | 180.0 | 100.1 | 100.0 |
| Some elementary school education or less .................... | 17. 2 | 9.1 | 20.8 | 13.9 | 28.2 | 20.4 | 36.1 | 33.3 |
| Completed elementary school education | 19,8 | 8.4 | 22.7 | 14.3 | 27.2 | 21.6 | 27.5 | 26.3 |
| Some secondary school education | 34.3 | 20.5 | 30.3 | 20.2 | 22.2 | 18.3 | 18.2 | 13.9 |
| Completed secondary school educatton ......................... | 20.7 | 44.7 | 17.9 | 35.7 | 15.8 | 23.9 | 13.6 | 15.5 |
| Bome university education ............................................ | 4.7 | 9.5 | 5.0. | 6.9 | 4.0 | 8.4 | 2.9 | 6.4 |
| Und versity degree ......................................................... | 3. 3 | 7.6 | 3.2 | 7.0 | 2.6 | 7.4 | 1.7 | 4.7 |

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Educational Attainment in Canada: Some Regional and Social Aspects

## ERRATA

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Page 9 In line ll of the second paragraph, "actually increase" should read "actual-
    ly increases".
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Page 11 The first line under 'Migration, Immigration and Education' should read "Migration within Canada, as well as immigration...".

Page 13 Line 18 in the second paragraph should read "higher age" and not "higher are".

Page 16 Line 15 in footnote 14 should read 'Monetary Value of Education's Intergeneration Effects".

Page 16 In line 14 of the second column, "on the other and" should read "on the other hand".

Page 16 Footnote 17 belongs in the section on "Indexes of Association" on page 17 .


## FOREWORD

This is the seventh in a series of research studies roncerned with the analysis of selected economic, social or demographic aspects of the working population in Canada. Much of the statistical information on which this and other studies in the series is based is derived from supplementary questions attached to the monthly survey of the labour force conducted by the Speciai Surveys Division of the Dominion Bureau of Statistics. Further reports in the series will be presented as and when data become available.

These studies are prepared under the direction of Dr. Sylvia Ostry, Director, Special Manpower Studies and Consultation.

WALTERE. DUFFETT,
Dominion Statistician.

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## INTRODUCTION

The purpose of this study is to present some new data on education, "migration'" and intergeneration changes in educational attainment." The data were derived from questions appended to the Labour Force Survey of January 1966. This report consists of two main sections. In the tirst, the

[^1]level of education of the Canadian population including regional differences, is discussed; the impact of interregional migration and imnigration on the level of education of the regions is examinea. Secondly, the report explores intergeneration changes in educational attainment in Canada. The Appendix contains explanatory notes on methodology, definitions and some comments on the reliability of estimates as well as detailed tables related to the material discussed in this report.

## EDLCITIONAL ATTAINMENT OF THE CANAIIAN POPULATION

The educational attainment of the Candian population has already been the subject of a Special Labour Force $S_{t u d y}{ }^{2}$ and requires onty a brief review here. That study showed that in February 1965, just over 50 per cent of the population 14 years of age and over had attended secondary school and nearly 9 per cent had entered univer. sity. Females had a higher level of education than males; this difference was largely attributable to the greater proportion of temales who had completed secondary school.

The data in Table 1 refer to persons who were 14 years of age and over in January 1966. They indicate that 52.5 per cent of the population has attended secondary school and 9.7 per cent has attended university. Differences in the educational attainment of men and women are not uniform for each category of education but are most marked at the secondary school and university graduation levels. Thus only 48.5 per cent of the men, but 56.4

[^2]per cent of the women have attended secondary school. On the other hand, 5.3 per cent of the men, but only 2.7 per cent of the women have obtained a university degree.

The level of education of the population 25 years of age and over is also shown in lable l.'The picture described above changes slightly when this older group, which includes few persons attending school full time, is considered. ${ }^{3}$ The general level of education shifts downward somewhat but the differences between the educational attainment of men and women are maintained. Among persons who have attended university, a slightly higher proportion of the older group has actually obtained a degree. Thus 4.8 per cent of the population 25 years of age and over has obtained a university degree and 4.7 per cent has attended university without graduating. Of the persons 14 years of age and over, 4.0 per cent has graduated and 5.7 per cent has attended university without receiving a degree.

[^3]TABLE 1. Level of Education of the Canadian Population 14 Years of Age and Over and 25 Years of Age and Over by Sex, January. 1966

| Level of education | 14 years of age and over |  |  | 25 years of age and over |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Both sexes | Male | Female | Both sexes | Male | Female |
|  | per cent |  |  |  |  |  |
| Totals | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Some elementary school education or less ........ | 19.5 | 21.2 | 17.9 | 22.9 | 24.6 | 21.2 |
| Completed elementary school education | 18.3 | 18.9 | 17.7 | 22.2 | 22.9 | 21.6 |
| Some secondary school education ................... | 36.4 | 35.4 | 37.4 | 28.9 | 27.4 | 30.3 |
| Completed secondary school education | 16.1 | 13.1 | 19.0 | 16.5 | 13.8 | 19.2 |
| Some university education .............................. | 5.7 | 6.1 | 5.3 | 4.7 | 4.7 | 4.6 |
| University degree ......................................... | 4.0 | 5.3 | 2.7 | 4.8 | 6.6 | 3.1 |

## REGIONAL DIFFERENCES IN EDUCATIONAL ATT IINMENI

The previous study described the improvement of the educational attainment of the Canadian population as a whole which occurred over the course of this century * While this upgrading has been widespread and not confined to any area of the countiy. regional differences in educational levels are still a matter of concern in Canadas Data on the educational attainment of persons 20 years of age and over in January 1966 are given in Table 2 for Canada and the five major regions.

The data indicate that educational attainment varies considerably between regions It is highest

[^4]in British Columbia, where the proportion of persons who have a high school or university education is greater than in any other region. Educational attainment in the Prairie region and in Ontarioclosely resembles that of Canada as a whole. Ontario has a slightly superior level of education since the proportion of persons with a secondary school education is higher in that province than in the Prairie region. Finally, Quebec and the Allantic region have a lower level of education than the other regions. The data show that Quebec has the highest proportion of persons with no more than elementary schooling and the lowest proportion of persons in the secondary school category. In both regions, the proportion of university-trained persons is lower than the national figure, but it is lowest in the Atlantic region

TABLE 2. Population 20 years of Age and Over, by Age and Level of Education, Canada and Regions, January, 1966

| Age and level of education | Region |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canada | Atlantic | Quebec | Ontario | Prairie | British Columbia |
|  | per cent |  |  |  |  |  |
| 20 years and over | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Elementary | 42.0 | 46.6 | 49.9 | 38.1 | 40.5 | 31.0 |
| Secondary | 47.5 | 45.2 | 40.4 | 51.3 | 48.5 | 55.4 |
| University | 10.5 | 8.2 | 9.7 | 10.6 | 11.0 | 13.6 |
| 20-24 years | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Elementary | 19.6 | 26.1 | 27.6 | 13.9 | 14.8 | 10.7 |
| Secondary | 63.0 | 60.9 | 56.4 | 68.6 | 65.3 | 66.0 |
| University | 17.4 | 13.0 | 16.0 | 17.5 | 19.9 | 23.3 |
| 25-44 years | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Elementary | 34.7 | 40.5 | 45.4 | 30.4 | 29.9 | 20.2 |
| Secondary | 54.0 | 50.6 | 44.1 | 58.2 | 58.3 | 64.7 |
| University | 11.3 | 8.9 | 10.5 | 11.4 | 11.8 | 15.1 |
| $45-64$ years | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Elementary | 50.8 | 53.6 | 60.8 | 45.7 | 51.1 | 39.0 |
| Secondary | 40.6 | 39.9 | 32.0 | 45.2 | 39.8 | 49.6 |
| University | 8.6 | 6.5 | 7.2 | 9.1 | 9.1 | 11.4 |
| 65 years and over | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Elementary | 66.6 | 68.4 | 69.4 | 65.6 | 69.7 | 57.9 |
| Secondary | 27.8 | 26.7 | 26.3 | 28.5 | 24.6 | 34.5 |
| University | 5.6 | - | 4.3 | 5.9 | 3.7 | 7.6 |

[^5]The data in Table 2 also indicate that in each region, euucational attainment has been rising unevenly over time. 'The proportion of Canadians who have obtained no more than elementary schooling falls from two thirds of those 65 years of age and over to 50.8 per cent of those in the $45-64$ age group. It falls further to slightly more than one third of those in the 25-44 age group and to 19.6 per cent of the youngest age group. The data show that this continuing increase in the educational attainment of the Canadian population has not been uniform for all regions. Relative to Canada, Quebec has maintained the highest proportion of persons with no more than elementary schooling, although the gap has begun to narrow recently. Thus in the $45-64$ age group, 60.8 per cent of the population in Quebec, but only 50.8 per cent of the total Canadian population, has obtained an elementary school education or less. This difference of 10 percentage points is maintained in the $25-44$ age group but falls to 8.0 in the $20-24$ age group.

In British Columbia, on the other hand, the population in each age group has the lowest proportion of persons with an elementary school education or less. The difference between Canada as a whole and British Columbia. however, also appears to have diminished recently. Thus in the $45-64$ age group, 50.8 per cent of the Canadian population, but only 39.0 per cent of the population in British Columbia has no more than elementary schooling. This difference of 11.8 percentage points actually increase to 14.5 in the $25-44$ age group but falls sharply to 8.9 percentage points for persons 20-24 years of age.

While it appears that the proportion of persons in Quebec and in British Colombia with no more than elementary schooling has recently been tending towards the national standard, the gap at that level of education between the Atlantic region and Canada as a whole seems to be increasing. In the 45-64 age group, for instance, 53.6 per cent of the population in the Atlantic region has not attended school beyond the elementary level. This proportion is only 2.8 percentage points higher than the

[^6]Canadian figure tor that age group. However. the gap increases to 5.8 percentage points in the 25-44 age group and to 6.5 points for persons 20-24 vears of age.

In Ontario, the proportion of persons with no more than elementary schooling remains lower than the national figure in all age groups. In the Prairie region, the lower proportion of poorly ectucated persons is a more recent phenomenon. It is approximately equal to the national figure in the 45-64 age group but falls to 4.8 percentage points below the national figure in the 25-44 age group and remains in that relative position in the youngest age group

Further evidence of uneven improvement in educational attainment among the regions appears at the higher levels of education. In Quebec, the improvement at the elementary level noted above is matched by a decrease in the gap between that province and Canada as a whole at the secondar.v school level. Thus in the 45-64 age group, onty 32.0 per cent of the Quebec population, but 40.6 per cent of the Canadian population has attended secondary school. This differential of 8.6 percent age points increases to 9.9 points in the $25-44$ age group but falls to 6.6 in the $20-24$ age group In each of these age groups, the proportion of persons who have attended university is only slightly lower in Quebec than in the rest of Canada.

In British Columbia, the tendency towards the national figure at the elementary level is matched by a relative increase in the proportion oi persons with a university education. Thus the difference of 2.8 percentage points between British Columbia and Canada in the proportion of university-trained persons $45-64$ years of age increases to 3.8 points in the $25-44$ age group and to 5.9 percentage points in the 20-24 age group. However, there has recently been a decrease in differentials at the secondary level of education, the difference between British Columbia and Canada increasing from 9.0 percentage points in the $45-64$ age group to 10.7 percentage points in the $25-44$ age group but falling to 3.0 points in the youngest age group.

The increasing gap in educational attainment between the Atlantic region and Canada as a whole is evident at the university as well as at the elementary level of education. The gap at the university level is only 2.1 percentage points in the $45-64$ age group. It rises slightly to 2.4 points in the $25-44$ age group and grows to 4.4 percentage points in the youngest group.

In all age groups, the proportion of persons in Ontario who have attended university is virtually the same as that observed for Canada as a whole, The proportion with secondary schooling is higher in Ontario, ranging from 4.2 percentage points in the $25-44$ age group to 5.6 points in the $20-24$ age group. In the Prairie region, the percentage distribution of the $45-64$ age group is about the same as that for Canada as a whole. The relative in-
crease in the proportion of university-trained persons which occurs between the 25-44 and 20-24 age groups is offset by a fall in the difference at the secondary level.

In summary, the improvement in Quebec relative to Canada occurred as a result of a greater decline, than in the rest of Canada, in the proportion of persons with elementary school or less
and a relatively greater increase at the secondary school level. In British Columbia, the decrease in the differential at the elementary and secondary levels is offset by a relatively more rapid increase in the proportion of university-trained persons in that province. On the other hand, the widening gap between the Allantic region and Canada as a whole at the elementary level of schooling has been accompanied by an increasing difference at the university and secondary school levels.

## EDUCATIONAL ATTAINMENT AND OCCUPATION

The occupational distribution of the labour force has been the subject of a previous report in the series of Special Labour F'orce Studies. ${ }^{7}$ The occupational distribution of men and women in January 1966 is presented in Table 3. White collar workers account for 42.2 per cent of the labour force and blue collar workers for 31.5 per cent. The distribution of the labour force among broad occupational groups differs considerably by sex. Women are relatively more numerous in the white collar and service occupations and men are predominant in the blue collar and primary worker categories. Three fifths of the women, but just over one third of the men, were working in white collar occupations in January 1966. On the other hand, 39.3 per cent of the men and only 13.0 per cent of the women were blue collar workers.

The data in Table 4 show that, although the level of educational attainment is higher in the female than in the male labour force, differences in the overall level of education are not reflected in each occupational category. Thus about 40 per cent of the males, but only 24.2 per cent of the ferales in the labour force have no more than elementary schooling. On the other hand, 48.6 per cent of the men, but 64.0 per cent of the women have

[^7]attended a secondary or high school. About 12 per cent of both men and women have attended university. These differences, however, are not evident in each occupational group. In the blue collar category, the level of education of the females is actually lower than that of the males: about half of the males, but 56.9 per cent of the females, have no more than elementary schooling. Differences in educational attainment in the service category are slignt. The educational superiority of women in primary occupations is due to a relatively higher proportion of women with secondary schooling. In the white collar group, relatively more females have attended high school but more men have attended university. Thus 73.3 per cent of the women, but 56.1 per cent of the men, have a secondary school education. On the other hand, 29.0 per cent of the men, but only 18.5 per cent of the women, have attented university.

Only in the transport and communication category is there a marked superiority in the female level of schooling. This differential is due to the different types of jobs held by women and men in this category, the women being mainly telephone operators, an occupation which closely resembles jobs in the white collar sector. Thus the superiority in the overall level of education of the female over the male work force is due more to their differing deployment among the broad occupational categories then to matked differentials by occupation.

TABLE 3. Labour Force by Occupational Group and Sex, Canada, January, 1966

| Sex | Occupational group |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total ${ }^{1}$ | White collar | $\begin{aligned} & \text { Blue } \\ & \text { collat } \end{aligned}$ | Service | $\begin{aligned} & \text { Transportation } \\ & \text { and } \\ & \text { comunication } \end{aligned}$ | Primary |
|  | percent |  |  |  |  |  |
| Both sexes | 100.0 | 42.2 | 31.5 | 11.5 | 5.8 | 9.0 |
| Male | 100.0 | 34.3 | 39.3 | 6.9 | 7.5 | 12.0 |
| F'emale | 100.0 | 60.7 | 13.0 | 22.4 | 1.7 | 2.2 |

[^8]Note: The "white collar" category includes persons in manageriai, professional and technical, clerical and sales occupations. "Blue collar" occupations consist of craftsmen, production process and related workers and labourers not elsewhere specified. Primary occupations include farmers and farm workers, loggers andrelated workers, fishermen, trappers and hunters, miners, quarrymen and related workers.

TABLE 4. Labour Force, by Level of Education. Occupational Group and Sex, Canada, January, 1966

| Level of education | Occupational group |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All occupations |  | White collar |  | Blue collar |  |
|  | Male | Female | Male | Female | Male | Female |
|  | per cent |  |  |  |  |  |
| Totals | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 100.0 |  |
| Elementary | 39.9 | 24.2 | 14.9 | 8.2 | 50.5 | 56.9 |
| Secondary... | 48.6 | 64.0 | 56.1 | 73.3 | 47.2 | 42.2 |
| University | 11.5 | 11.8 | 29.0 | 18.5 | 2.3 | - |
|  | Service |  | Transportation and communication |  | Primary occupations |  |
|  | Male | Female | Male | Female | Male | Female |
|  | $\begin{array}{r} 100.0 \\ 46.3 \\ 50.6 \\ 3.1 \end{array}$ | $\begin{array}{r} 100.0 \\ 45.8 \\ 52.4 \end{array}$ | per cent |  | 100.0 | 100.0 |
| Totals |  |  | 100.0 | 100.0 |  |  |
| Elementary... |  |  | 49.847.8 | $85.5$ | 66.9 | 59.0 |
| Secondary... |  |  |  |  | 31.5 | 39.2 |
| University . |  |  | - | - | 1.6 |  |

* Based on estimate of less than 10,000 .

Note: See note In Table 3.

## MIGRATION, IMMIGRATION AND EDUCITION

Migration within Canada, as well as migration, have been a subject of interest for many years. While the Survey upon which this present study is based yielded no direct measures of migration and immigration, the data do provide some insight into the geographic movement of the Canadian population and into the relation between this movement and education. In this Survey, a migrant is a person who has moved at least once between the province in which a given level of education (i.e. elementary, secondary or university) was attained and the province in which that person was living at the time of the Survey (January 1966). Multiple moves during the time period between a person's departure from school or completion of a level of education and the reference date of the Survey are not recorded. No move is recorded if the respondent left the province in which he or she had attained a given level of education and returned to that province before the Survey was conducted. From this definition, it follows that the period during which migration could have taken place varies from one migrant to another. An immigrant is defined as a person who has attained a given level of education in another country and who was living in Canada in January 1966. This

[^9]definition allows the inclusion of Canadians who have studied abroad and returned to Canada as well as foreign nationals who have migrated to Canada. The figures presented below are, therefore, clearly not estimates of the volume of migration and immigration. They are simply intented to give a general view of the relation between education, migration within Canada and immigration.

## Patterns of Migration and Immigration

The broad relationship between aze, education, migration and immigration. as defined above, is examined in Table 5. The data show the proportion of persons in Canada still living in the province in which they attained the highest level of their education. They also show the percentage of persons living outside the province in which they attained the highest level of their education and the proportion of persons educated outside Canada. About 70 per cent of all persons 20 years of age and over are living in the province in which they have attained the highest level of their education. About 11 per cent have moved to other provinces and 17 per cent have received their highest level of education in a country other than Canada. ${ }^{\text {a }}$

[^10]TABLE 5 Population 20 Years of Age and Over, by Age, Highest Level of Education Attained and Residence in January, 1966, in Relation to Province in which that Level was Attained, Canada

| Highest level of education attained, residence in 1966 in relation to province in which that level was attained | Age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages | 20-24 | 25-44 | 45-64 | 65 and over |
|  | per cent |  |  |  |  |
| All levels of education................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Same province...................................................... | 69.6 | 83.2 | 69.5 | 69.7 | 56.0 |
| Different province ................................................. | 11.1 | 7.3 | 11.8 | 11.9 | 10.2 |
| Different country ................................................... | 16.9 | 6.0 | 16.4 | 16.3 | 31.1 |
| Not stated............................................................ | 2.4 | 3.5 | 2.3 | 2.1 | 2.7 |
| Elementary ..................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Same province. | 69.7 | 81.6 | 72.0 | 71.7 | 58.3 |
| Different province | 8.9 | 6.2 | 8.7 | 9.6 | 8.6 |
| Different country | 20.7 | 11.5 | 18.7 | 18.0 | 32.1 |
| Not stated... | 0.7 | * | 0.6 | 0.7 | * |
| Secondary ........................................................ | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Same province.......................................................... | 70.8 | 84.5 | 69.9 | 69.2 | 52.8 |
| Different province ................................................. | 11.9 | 7.2 | 12.7 | 13.2 | 11.8 |
| Different country .................................................. | 13.7 | 4.3 | 14.2 | 14.0 | 29.4 |
| Not stated............................................................ | 3.6 | 4.0 | 3.2 | 3.6 | 6.0 |
| University.................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Same province....................................................... | 63.1 | 80.2 | 59.8 | 59.9 | 46.7 |
| Different province ................................................ | 16.1 | 9.0 | 16.8 | 19.7 | 19.7 |
| Different country .................................................. | 17.0 | 5.6 | 20.2 | 16.9 | 29.6 |
| Not stated............................................................ | 3.8 | 5.2 | 3.2 | 3.5 | * |

* Based on estimate of less than 10,000 .

Note: It will be noted that there is no double-counting in this table. Figures given for persons with an elementary education, for example, refer to persons who received that level of education only and excludes those who obtained a secondary or university education. Similarly, figures shown for persons with secondary education exclude those with university training. They refer to the relationship between the place where the person attended high school and that person's place of residence in 1966.

The data in Table 5 indicate that these overall patterns are not uniform for all age groups. For example, the proportion of persons still living in the province in which they completed their education decreases with age. Thus 83.2 per cent of those in the 20-24 age group, but only 70 per cent of those in the 25-44 and $45-64$ age groups, have not moved to other provinces after completing their education; the proportion falls to 56.0 per cent for persons 65 years of age and over. On the other hand, the proportion of persons educated in other countries increases with age. It rises from 6.0 per cent in the youngest age group to 16 per cent of those in the 25-44 and 45-64 age groups. It reaches 31.1 per cent among persons 65 years of age and over, reflecting the large flow of immigrants Canada received after world War I. Interprovincial mobility is much less strongly associated with age; the proportion of interprovincial
migrants (as detined above) increases from 7.3 per cent in the 20-24 age group to slightly over 10 per cent in the higher age groups. ${ }^{10}$

Although these putterns between migration, immigration and age are similar in each education category, the level of migration and immigration is related to educational attainment. Thus the data in Table 5 indicate that persons who have attended

[^11]university in Canada are more mobile than those with less education: 16.1 per cent of those who have attended university, but only 11.9 per cent of those with a secondary school education, have moved to other provinces after completing their education: the proportion falls to 8.9 per cent in the elementary category. Conversely, only 63.1 per cent of the university-trained population, but about 70 per cent of those with less education, are living in the province in which they completed their education. The impact of immigration also fluctuates with the level of educational attainment, but not systematically. The proportion of persons educated outside Canada falls from 17 per cent of those who have attended university to 13.7 per cent of those with a secondary school education and rises to 20.7 per cent of those with no more than elementary schooling. These overall patterns of association between geographical movement and education, however, are not reflected in all age groups. Thus in the youngest age group (20-24), the proportion of persons still living in the province in which they completed their education is not as sociated with the level of education but remains high at about 80 per cent in each education category. The proportion of interprovincial migrants increases from 6.2 per cent in the elementary category to 7.2 per cent in the secondary category and to 9.0 per cent among university-trained persons. The proportion of immigrants falls sharply from 11.5 per cent of all persons with no more than elementary schooling to 4.3 per cent in the secondary category and 5.6 per cent at the university level.

The patterns of movement of persons 25-44 years of age are generally similar to those of persons in the 45-64 age group. Mobility is directly associated with educational attainment: the proportion of interprovincial migrants increases from about 9 per cent in the elementary category to approximately 13 per cent in the secondary category; it rises further at the university level. Conversely, the proportion of "non-migrants" drops from about 70 per cent in the elementary and secondary categories to 60 per cent at the university level, in marked contrast to the 80 per cent observed at all levels of education in the 20-24 age group. A plausible explanation for this difference at the university level may be that persons in the younger age group are more likely to be still enrolled at a university. They would not have had the same opportunity as those in higher are groups to move to other provinces. Furthermore, younger persons who have completed their university education have not been working very long and would therefore have been exposed to employment opportunities outside their province for a shorter period of time than their elders. Finally, the proliferation of universities in recent years suggests that the necessity of moving between provinces to obtain a university education has diminished.

Contrary to the pattern observed among persons $20-24$ years of age, the impact of immigration in the 25-44 and the 45-64 age groups is not lessened at
the higher levels of education. The proportion of persons educated abroad decreases from about 18 per cent in the elementary category to 14 per cent in the secondary school category. But at the university level, it rises to 20.2 per cent in the 25-44 age group and to 16.9 per cent in the $45-64$ age group.

Finally, among persons 65 years of age and over, the general pattern of association between mobility and education is also apparent. Thus the proportion of "non-migrants" falls as educational attainment rises, from 58.3 per cent of those with no more than elementary schooling to 52.8 per cent of those in the secondary category and to 46.7 per cent of those with university training. Conversely, the incidence of interprovincial migration increases directly with educational attainment. The most noteworthy characteristic of this oldest group has already been mentioned. i.e. the impact of immigration is far greater on this group than on the others. However, the proportion of immigrants is roughly similar (about 30 per cent) in each education category.

In summary, the proportion of persons still living in the province in which they attained the highest level of their equcation varies inversely with educational attainment in all age groups except the youngest one. where the proportion remains high regardless of the level of education. Further, the proportion of interprovincial migrants increases with educational attainment. Finally, the percentage of respondants educated outside Canada appears to be strongly associated with age, but does not fluctuate systematically with educational attainment.

## Interregional Migration and Education

In the previous section the relationship between migration - interprovincial and international and educational attainment was examined It is also of interest to know where people, who were educated in a given region of Canada, were living in this country in 1966 . This information is provided in Table 6. It refers to all persons who received a given level of education in Canada and who were still living in the country at the time of the Survey in January. 1966. ${ }^{28}$

At least nine out of every ten persons who had received most of their elementary education in Quedec, Ontario or British Columbia were still living in their respective provinces in 1966. On the other hand, only about 80 per cent of the persons who received their elementary schooling in

[^12]TABLE 6. Population 20 Years of Age and Over, by Level of Education, Region in which that Level was Attained and Residence in January, 1966, Canada

| Level of education and region in which that level was attained | Residence in 1966 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Atlantic | Quebec | Ontario | Prairie | British Columbia |
|  | per cent |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Atlantic... | 100.0 100.0 | 80.5 0.4 | 9.5 | 11.7 | 1.6 0.6 | 1.7 0.5 |
| Ontario ..................................................... | 100.0 | 0.4 | 3.2 | 92. 4 | 2.4 | 1.6 |
| Prairie .............................................. | 100.0 |  | 1.0 | 6.6 | 77.3 | 14.8 |
| British Columbia .......................... | 100.0 |  |  | 3.9 | 4.9 | 90.3 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Quebec ............................................................................ | 100.0 100.0 |  | 92.7 4.1 | 5.4 91.6 | * 2.2 | 0.8 1.5 |
| Prairie ..................................................... | 100.0 |  | 1.4 | 6.9 | 78.2 | 13.2 |
| British Columbia ........................... | 100.0 | * |  | 4.2 | 5.1 | 89.8 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Quebec ..................................................................... | 100.0 100.0 |  | 87.9 6.7 | 7.5 85.7 | * 3.7 | * 3.0 |
| Prairie ............................................ | 100.0 |  |  | 8.2 | 78.9 | 10.4 |
| British Columbia .............................. | 100.0 | * | * |  |  | 83.3 |

* Based on estimate of less than 10,000 .

TABLE 7 . Interregional Migration ${ }^{2}$ and Immigration ${ }^{2}$ of the Canadian Population 20 Years of Age and Over, by Level of Education and Region, January, 1966

| Level of education and region | Number of persons educated in each region <br> (1) | Outflow to other regions <br> (2) | Inflow from other regions <br> (3) | Net inflow ( + ) or outflow ( - ) (3) $-(2)$ <br> (4) | Immigration ${ }^{2}$ <br> (5) | $\begin{gathered} \text { Net } \\ \text { changes } \\ (4)+(5) \end{gathered}$ <br> (6) | Percentage change ${ }^{3}$ $(6) \div(1) \times 100$ <br> (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | estimates in thousands |  |  |  |  |  |  |
| Elementary: |  |  |  |  |  |  |  |
| Atlantic .. | 1,127 | 220 | 30 | - 190 | 34 | - 156 | - 13.9 |
| Quebec............................................ | 2,767 | 175 | 159 | - 15 | 298 | 283 | 10.2 |
| Ontario......................................... | 2, 722 | 208 | 397 | 189 | 956 | 1,146 | 42.1 |
| Prairie ......................................... British Columbia .................... | $\begin{array}{r}1,723 \\ \hline 480\end{array}$ | 391 46 | 122 332 | - 270 -285 | 323 295 | 54 581 | 3.1 121.0 |
| British Columbia .......................... |  |  |  |  |  | 581 |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 1,331 1,859 | 97 156 | 130 250 | 32 <br> 94 | 154 | 187 538 | 14.0 29.0 |
| Ontario....................................................................... | 1, 8189 | 238 | 81 | - 154 | 134 | - 23 | - 2.1 |
| British Columbia ................................ | 398 | 41 | 193 | 152 | 159 | 311 | 78.2 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Quebec......................................... | 244 315 | 30 45 | 35 53 | 6 <br> 8 | 45 82 | 51 90 | 20.8 28.8 |
| Ontario........................................................................... Prairie ......... | 315 187 | 45 40 | 53 22 22 | 8 $-\quad 17$ | 82 30 | 90 13 | 28.8 7.1 |
| British Columbia ................................... | 88 | 15 | 34 | 19 | 33 | 52 | 59.1 |

[^13]the Atlantic or Prairie regions were living in the same region in 1966. The outflow from the Atlantic region went mainly to Ontario while that from the Prairies was directed in large part to British Columbia.

Generally the same pattern is evident among persons who attended secondary school. Quebec, Ontario and British Columoia retained nine out of every ten persons who received most or all of their secondary schooling in those provinces. One fourth of the persons educated in the Atlantic region and one fifth of those in the Prairies were living in other provinces.

Finally, Table 6 also indicates that persons with a university education are more mobile; all provinces experienced a greater outflow of uni-versity-trained persons than of less educated persons. Quebec, Ontario and British Columbia still maintain their rank in retaining persons educated within their borders, with Quebec experiencing the smallest outflow of university-trained persons.

The net effect of interregional migration as well as the inportance of immigration are shown in absolute figures in Table 7. At the elementary school level, Ontario and British Columbia are the only provinces which have not experienced a net outflow of persons. Quebec's net outflow is slight while that of the Atlantic and Prairie regions is appreciably heavier. When immigration is taken into consideration, only the Atlantic region still shows a net outflow. ${ }^{12}$ In Quebec and the Prairies, immigration more than compensates for net interregional outflows.

Proceeding to the secondary school level, it appears that only the Atlantic and Prairie regions have experienced a net interregional outflow. Although immigration does not fully compensate for this outflow, it offsets part of it in the Atlantic region and most of it in the Prairie region. Quebec, Ontario and British Columbia have gained through immigration as well as through interregional

[^14]migration. Altnough Britisn Columbia attracted more interregional migrants with some secondary school education than did Ontario, the flow of immigrants to Ontario assured that province first rank in the number of persons arriving from both sources,

The same general pattern can be observeci among persons with some university or a university degree. An exception is that immigration to the Prairie region has offset net interregional outflows while the Atlantic region has experienced a net outflow of persons with some university education even after immigration is taken into account.

At each level of education, the last column of Table 7 expresses the net change in the population of a given region due to interregional migration and immigration as a percentage of the total number of persons who have been eaucated in that region. ${ }^{1 s}$ The Atlantic region is by far the hardest hit by net population outflows, the net result of geographical movement nas been to reduce by 14 per cent, 16 per cent and 10 per cent the number of persons who received their elementary, secondary and university education, respectively, in that region. The Prairie region experienced a small loss at the secondary level, but gained 3 per cent and 7 per cent at the elementary and university levels respectively. These gains occurred entirely as a result of immigration from outside canada. The other regions have experienced net gains as a result of both interregional migration and immigration. Quebec's gain varies from 10.2 per cent in the elementary category to 14 per cent in the secondary category and to 20.8 per cent at the university level. Ontario's increases are higher at each level of education (42 per cent, 29 per cent and 29 per cent at the elementary, secondary and university levels respectively). Finally, British Columbia's net increase is consistently the highest at each level of education. At the elementary level, the increase is greater than the number actually educated in British Columbia ( 121 per cent), Gains at the higher levels of education remain substantial at 78 per cent in the secondary category and 59 per cent at the university level.

[^15]
## INTERGENERATION CHANGES IN EDUCATIONAL ATTAINMENT

Intergeneration changes in educational attainment have long veen a topic of discussion but very little information on the subject has been available in Canada. ${ }^{14}$ Data from the 1961 Census of Canada show a direct relationship between the level of education of family heads and the percentage of their children attending school. ${ }^{15}$ lhus the proportion of children aged $15-18$ years who were attending school in 1961 ranged from 51.8 per cent of the children in families whose head had attended school for less than tive years to 93.8 per cent of the children in families where the head had obtained a university degree. The corresponding tigures tor children in the $19-24$ age group ranged from 8.5 per cent to 63.7 per cent.

Persons enumerated in the Monthly Labour Force Survey of January, 1966 were asked to state the level of education which they and their parents had attained. The results are discussed in this section. The structure of the education of the population is conceived of as the relationship hetween three broad education categories into which respondents and their parents have been classified, i.e. elementary, secondary and university. ${ }^{10}$ The relations among these three categories is examined in terms of the flow of persons between them from one generation to the next. Hence the constituent subgroups of the education structure, and not the individuals composing them, form the unit of analysis of this section. Each category is characterised by the outflow or supply of persons to other categories (or destinations) as well as by the inflow or recruitment to it from the other categories (or origins). For example, persons with no more than elementary schooling supply sons and daughters mainly to the elementary and secondary categories, while persons in the elementary category are mostly recruited from their own ranks.

This flow of persons between education categories reveals the dynamics of the education structure of the population. Changes between generations

[^16]in the size of tue various education categories reflect a variety of social and cultural factors as well as changes in the demand for skills and innowledge which often have their source in technological change. Furthermore, the general increase in opportunity to receive higher levels of education has enhanced the quality of new entrants to the labour force. In the agricultural sector, for example, increasing productivity combined with lagging demand and the increased availability of highet education are reflected in the rapid decline of persons engaged in an occupation traditionally characterised by low levels of education. The growth of the tertiary sector, on the other and. has created an increasing demand for highly skilled and well educated manpower. The net result of the complex of changes in demand and supply factors is reflected in the redistribution of manpower between education categories.

## Educational Inheritance

The data in Table 8 show the level of education of males 20-64 years of age and that of their fatners and mothers. ${ }^{17}$ The data in Table 9 refer to the level of education of females. The percentages, calculated horizontally, reveal the magnitude of the outflow from the fathers' of

[^17]mothers' education categories to those of their sons or daughters. The tirst row in each table indicates the percentage distribution of males or females among the education categories. These totals demonstrate once again that relatively more men ( 13.8 per cent) than women ( 9.3 per cent) have attended university but that more women than men have attended secondary school ( 54.5 per cent and 45.2 per cent respectively).

For males, the percentages are highest in the diagonal of both the upper and lower parts of the table, reflecting a tendency towards "educational inheritance". ${ }^{18}$ As the upper part of Table 8 shows, 55.8 per cent of the males whose fathers have: attenced university entered university themselves, while 50.8 per cent of those whose fathers have no more than elementary schooling are also poorly educated. The data in the lower part of Table 8 indicate that the same pattern holds when the level of education of mothers and of sons is considered. a majority of sons have the same level of education as their mothers.

The tables thus clearly indicate that the sons' level of education is strongly related to that of their parents. In both parts of Table 8, relatively small percentages appear in the upper right and lower left corners. These percentages denote the proportion of sons whose level of education differs considerably from that of their parents. For example, only 7,4 per cent of the sons whose fathers have no more than elementary schooling have entered university; 6.7 per cent of those whose fathers attended university obtained no more than elementary schooling.

The patterns discussed above regarding males are modified somewhat when the level of education of fenales and that of their parents are considered (Table 9). First, the majority of women whose fathers have attended university have themselves obtained only a secondary school education, in contrast to males, a majority oi whom attended university. On the other hand, the largest proportion of women whose fathers or mothers have no more than elementary schooling obtained a secondary school education themselves, whereas a majority of the males with the same parental background remained in the same education category as their parents.

While the data in Table 8 indicate that the educational attainment of males tends to remain

[^18]the same whether the fathers' or the mothers level of education is considered, the data in 'ruble 9 suggest that, among females whose parents attended university, the influence of the mothers' education is greater than that of the father. Thus, 49.7 per cent of the daughters of university-trained mothers, but only 37.1 per cent of those whose tathers attended university, entered university themselves. The distribution of daughters of less educated parents, however, does not differ by parent

## Indexes of Association

Although the percentages shown in lahles 8 and 9 permit comparisons of the distribution of men and women of a given origin among the education categories, they do not directlj tuke into account the overall distribution of the male and female populations. Thus, it has already been noted (Table 9) that daughters of university-trained fathers are more likely to have attended secondary school than to have entered university. As the first row of that table shows, however, there are almost six times as many women with a secondary school education as there are with a university education. Accordingly, in Canada as a whole, the ratio of university-trained women to women in the secondary school category is $1: 6(9.3: 54.5)$, while the same ratio among women with university-trained fathers is $1: 1.5(37.1: 56.0)$. Daughters of uni-versity-trained fathers who attended university themselves, though fewer in number thanthose who attended high school, thus constitute a higher proportion of university-trained women than all daughters taken together.

The influence of parental background on educational attainment can thus be examined more meaningfully in relative rather than absolute terms. Specitically, for each education category, it can be expressed as the ratio of the proportion of sons or daughters of a given origin to the proportion of all sons or daughters in that category. The ratio derived in this way is called an "index of association'. It prowides a common standard which permits an analysis of the relative chances of cnange in educational attainment for persons of different parental background. A situation of "perfect" mobility is said to exist when there is no link between the level of education of parents and that of sons or daughters. In the case of perfect mobility, the observed mobility equals that expected on the assumption of independence and the value of the index of association is 1.0. An index whose value is greater than unity indicates that the observed number of persons in a given education category is greater than that which would obtain if no relationship existed between the level of education of both generations. On the other hand, a value less than unity shows that fewer persons are in a given education category than would be the case if no link existed between levels of education.

TABLE 8. Educational Attainment of Males 20-64 Years of Ige, by Fathers' and Mothers' Level of Education, Canada. January, 1966: Outflow Percentages

| Parent and parent's level of education | Males' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| Totals | 100.0 | 13.8 | 45.2 | 41.0 |
| University | 100.0 | 55.8 | 37.5 | 6.7 |
| Secondary.. | 100.0 | 28.7 | 61.0 | 10.3 |
| Elementary. | 100.0 | 7.4 | 41.8 | 50.8 |
| University | 100.0 | 54.1 | 38.1 | 7.8 |
| Secondary ................................................................. | 100.0 | 29.4 | 58.9 | 11.7 |
| Elementary ............................................................... | 100.0 | 7.3 | 41.3 | 51.4 |

TABLE 9. Educational Attainment of Females 20-64 Years of Age, by Fathers' and Mothers' Level of Education, Canada, January, 1966: Outflow Percentages


* Based on estimate of less than 10,000 .

Indexes of association tor the groups of persons snown in Tables 8 and 9 are given in Tables 10 and 11 . The values shown in the diagonal of each table indicate whether the proportion of sons or daughters receiving the same level of education as their parents is equal to, greater than or smaller than that expected on the assumption of
independence from parental background. Values in the upper right portion of each table indicate to what extent downward mobility between generations diverges from the amount expected. Values in the lower left part of each table, on the other hand, show to what extent upward educational mobility deviates from the expected amount.

TABLE 10. Indexes of Association Between the Level of Education of Males $20-64$ Years of Age and that of their Fathers and Mothers, Canada, January, 1966

| Parent and parent's level of education | Males' level of education |  |  |
| :---: | :---: | :---: | :---: |
|  | University | Secondary | Elementary |
| Fathers: |  |  |  |
| University .................................................................... | 4.0 | 0.8 | 0.2 |
| Secondary ................................................................... | 2.1 | 1.3 | 0.3 |
| Elementary ................................................................... | 0.5 | 0.9 | 1.2 |
| Mothers: |  |  |  |
| University .................................................................. | 3.9 | 0.8 | 0.2 |
| Secondary ................................................................... | 2.1 | 1.3 | 0.3 |
| Elementary ................................................................. | 0.5 | 0.9 | 1.3 |

TABLE 11. Indexes of Association Between the Level of Education of Females 20-64 Years of Age and that of their Fathers and Mothers, Canada, January, 1966

| Parent and parent's level of education | Females' level of education |  |  |
| :---: | :---: | :---: | :---: |
|  | University | Secondary | Elementary |
| Fathers: |  |  |  |
| University | 4.0 | 1.0 | 0.2 |
| Secondary ................................................................... | 1.8 | 1.3 | 0.3 |
| Elementary ................................................................ | 0.6 | 0.9 | 1.3 |
| Mothers: |  |  |  |
| University ................................................................... | 5.4 | 0.8 | * |
| Secondary ................................................................... | 1.8 | 1.3 | 0.3 |
| Elementary ................................................................... | 0.5 | 0.9 | 1.3 |

*Based on estimate of less than 10,000 .

Tables 10 and 11 thus provide a general view of the main characteristics of intergeneration change in educational attainment. First, educational inheritance is greater than that expected on the assumption of independence: the values in the diagonals are consistently greater than unity. The highest degree of inheritance occurs between university-trained parents and sons or daughters. Furthermore, the strongest relationship at this level of parental attainment arises between mothers and daughters, where the index reaches a value of 5.4 . In all otner cases concerning universitytrained parents and sons or daughters, the value of the index is about 4.0.

Secondly, it will be noted that short-distance moves are more common than long-distance ones;
the values of the index in the upper right and lower left corners of the tables are lower than the others. In general, the closer two categories are to one another, the greater the flow of persons between them. The process of upward educational mobility thus seems to take place in two stages. First, sons and daugnters of parents with no more than elementary schooling usually either follow their parents' footsteps or obtain a secondary school education. However, the number who move upwards is slightly less than that expected on the assumption of independence. Secondly, persons whose parents attended secondary school for the most part either match their parents' education or enter university.

Finally, only upwara mobility has occurred in disproportionate amounts, although both upward ana downward mobility have taken place. ${ }^{19}$ In Tables 10 and 11, evidence of unexpectedly nigh upward mobility appears only among universitytrained persons whose parents have a secondary education. On the other hana, the data do not indicate that any excessive downward mooility has taken place all cells in the upper right corner contain values less than unity.

## Age and Intergeneration Changes in Educational Attainment.

To ascertain whether the patterns discussed above have been changing over time, respondents were classified in three age groups. The outflow from the fathers' and mothers' education categories co those of the sons and daughters are shown in Tables 12, 13, 14 and 15 . The corresponding indexes of association are given in Tables 16, 17, 18 and 19. The discussion will focus on these latter tables although the reader may wish to refer to the outflow estimates for further information.

For males, the values of the index of association are greater than unity in the diagonal of each age group, reflecting a continuing tendency towards educational inheritance. However, the value of the index, while remaining greater than unity, has been changing over time. Among uni-versity-trained men whose fathers attended university (Table 16) the value of the index falls

[^19]from 5.0 in the $45-64$ age group to 4.0 in the $25-44$ age group and further to 2.9 among $20-24$-year old men. A slighter decrease can be observed among sons and fathers who obtained a secondary school education. In the $20-24$ age group, the value of the index is almost equivalent to that expected on the assumption that there is no link between the level of education of fathers and sons. At the elementary level, however, the value of the index does not fall but actually fises very slishly, suggesting a possible strengthening of educational inheritance among the most poorly educated, or, looking at it another way, indicating that the general increase in educational attainment noted above has been taking place less rapidly among sons whose fathers have no more than elementary schooling. The value of the indexes in some of the other cells of the table have also been changing over time. Thus the value of the index of association between fathers with a secondary school education and sons who have attended university has been cut in half; from 2.8 in the $45-64$ age group, it falls to 2.0 in the $25-44$ age group and further to 1.4 among sons $20-24$ years of age. On the other hand, downward mobility among sons of university-trained fathers has diminished: the value of the index for sons in the secondary school category whose fathers attended university falls gradually from 1.0 in the $45-64$ age group to 0.8 in the youngest age group. In each age group, sons whose fathers have no more than elementary schooling are about as numerous as expected at the secondary level but their numbers are consistently about half of the expected numbers in the university category. Finally, the number of sons in the elementary category whose fathers have a secondary school or university education is consistently much lower than expected. Similar patterns emerge when the educational attainment of sons and mothers is considered (Table 17).

TABLE 12. Educational Attainment of Males 20-64 Years of Age, by Age and Fathers' Level of Education. Canada, January, 1966: Outflow Percentages

| Age of males and fathers' level of education | Males' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| 20-24 years | 100.0 | 22.0 | 56.8 | 21.2 |
| University. | 100.0 | 63.2 | 34.8 | * |
| Secondary ................................................................................................. | 100.0 100.0 | 31.5 11.8 | 62.6 56.2 | 5.9 32.0 |
| Elementary ........................................................... |  |  |  |  |
| 25-44 years | 100.0 | 14.3 | 48.2 | 37.5 |
| University.. | 100.0 | 56.5 | 38.9 | * |
| Secondary ............................................................ | 100.0 | 27.9 | 62.5 | 9.6 |
| Elementary ........................................................... | 100.0 | 8.0 | 45.2 | 46.8 |
| 45 - 64 years | 100.0 | 9.7 | 362 | 54.1 |
|  | 100.0 |  | 37.1 | - |
| Secondary ................................................................... | 100.0 | 27.1 | 56.3 | 16.6 |
| Elementary ........................................................... | 100.0 | 5.2 | 32.9 | 61.9 |

[^20]The data in Tables 18 and 19 indicate that the same general patterns are valid for females although one consistent exception, which has already been noted, appears among daughters of university-trained parents: the intensity of association between generations differs by parent. Thus, in each age group, the value of the index
of association between university-trained daughters and their fathers is lower than that for universitytrained mothers. Conversely, the index for daughters of university-trained parents in the secondary category is consistently lower when the mother is considered (Table 19).

TABLE 13. Educational Attainment of Males 20-64 Years of Age, by Age and Mothers' Level of Education, Canada, January, 1966: Outflow Percentages


* Based on estimate of less than 10,000 .

TABLE 14. Educational Attainment of Females 20-64 Years of Age, by Age and Fathers' level of Education, Canada, January, 1966: Outflow Percentages

| Age of females and fathers' level of education | Females' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| 20-24 years | 100.0 | 14.0 | 68.4 | 17.6 |
| University | 100.0 | 44.8 | 54.6 |  |
| Secondary ................................................................ | 100.0 100.0 | 20.4 7.4 | 74.4 67.0 | 5.2 25.6 |
| Elementary ............................................................ |  |  |  |  |
| 25-44 years | 100.0 | 9.1 | 58.3 | 32.6 |
| University ............................................................ | 100.0 | 37.7 | 56.0 |  |
| Secondary ............................................................... | 100.0 | 15.1 | 75.0 | 9.9 |
| Elementary ........................................................... | 100.0 | 5.1 | 53.5 | 41.4 |
| 45-64 years | 100.0 | 7.6 | 43.2 | 49.2 |
| University ............................................................. | 100.0 | 31.7 | 57.0 | * |
| Secondary .......................................................................................... | 100.0 | 15.4 | 69.1 | 15.5 |
| Elementary ............................................................ | 100.0 | 4.6 | 37.4 | 58.0 |

[^21]TABLE 15. Educational Attainment of Females $20-64$ Years of Age, by Age and Mothers' Level of Education, Canada, January, 1966: Outflow Percentages

| Age of females and mothers' level of education | Females' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| 20-24 years .................................................... | 100.0 | 14.0 | 68.4 | 17.6 |
| University ............................................................ | 100.0 | 57.6 | 42.0 | * |
| Secondary ............................................................ | 100.0 | 19.9 | 74.9 | 5.2 |
| Elementary ........................................................... | 100.0 | 6.6 | 66.1 | 27.3 |
| 25-44 years................................................... | 100.0 | 9.0 | 58.4 | 32.6 |
| University ............................................................ | 100.0 | 51.1 | 44.9 | * |
| Secondary ............................................................ | 100.0 | 15.0 | 75.3 | 9.7 |
| Elementary ............................................................. | 100.0 | 5.0 | 52.6 | 42.4 |
| 45-64 years | 100.0 | 7.6 | 43.2 | 49.2 |
| University ................................................................ | 100.0 | 41.0 | 46.8 | * |
| Secondary ............................................................ | 100.0 | 19.2 | 66.4 | 14.4 |
| Elementary ............................................................ | 100.0 | 4.1 | 38.0 | 57.9 |

* Based on estimate of less than 10,000 .

TABLE 16. Indexes of Association Between the Level of Education of Males 20-64 Years of Age and that of their Fathers, by Age of Males, Canada, January, 1966

| Age of males and fathers' level of education | Males' level of education |  |  |
| :---: | :---: | :---: | :---: |
|  | University | Secondary | Elementary |
| 20-24 years: |  |  |  |
| University ...................................................................................... | 2.9 | 0.6 | * |
| Secondary ......................................................................... | 1.4 | 1.1 | 0.3 |
| Elementary ....................................................................... | 0.5 | 1.0 | 1.5 |
| 25-44 years: |  |  |  |
| University ......................................................................... | 4.0 | 0.8 | * |
| Secondary ....................................................................... | 2.0 | 1.3 | 0.3 |
| Elementary | 0.6 | 0.9 | 1.2 |
| 45-64 years: |  |  |  |
| University ........................................................................................ | 5.0 | 1.0 | * |
| Secondary ........................................................................ | 2.8 | 1.6 | 0.3 |
| Elementary ....................................................................... | 0.5 | 0.9 | 1.1 |

[^22]TABLE 17. Indexes of Association Between the Level of Education of Males 20-64 Years of Age and that of their Mothers, by Age of Males, Canada, January, 1966

| Age of males and mothers level of education | Males' level of education |  |  |
| :---: | :---: | :---: | :---: |
|  | University | Secondary | Elementary |
| 20-24 years: |  |  |  |
| University | 3.1 | - | * |
| Secondary | 1.5 | 1.1 | 0.3 |
| Elementary | 0.5 | 1.0 | 1.6 |
| 25-44 years: |  |  |  |
| University | 3.5 | 0.8 | * |
| Secondary | 2.0 | 1.2 | 0.3 |
| Elementary .................................................................. | 0.6 | 0.9 | 1.3 |
| 45-64 years: |  |  |  |
| University ................................................................................... | 4.9 | 1. 2 | * |
| Secondary | 2.8 | 1.5 | 0.3 |
| Elementary ..................................................................... | 0.6 | 0.9 | 1.1 |

* Based on estimate of less than 10,000 .

TABLE 18. Indexes of Association Between the Level of Eduction of Females 20-64 vears of tge and that of their Fathers, by Age of Females, Canada, January, 1966

| Age of females and fathers' level of education | Females' level of education |  |  |
| :---: | :---: | :---: | :---: |
|  | University | Secondary | Elementary |
| 20-24 years: |  |  |  |
| University ................................................................... | 3.2 | 0.8 | * |
| Secondary | 1.5 | 1.1 | 0.3 |
| Elementary ................................................................. | 0.5 | 1.0 | 1.5 |
| 25-44 years: |  |  |  |
| University ................................................................... | 4.2 | 1.0 | * |
| Secondary .................................................................. | 1.7 | 1.3 | 0.3 |
| Elementary ....... ......................................................... | 0.5 | 0.9 | 1.3 |
| 45-64 years: |  |  |  |
| University .................................................................. | 4.2 | 1.3 | * |
| Secondary ................................................................... | 2.0 | 1.6 | 0.3 |
| Elementary ................................................................. | 0.6 | 0.9 | 1.2 |

[^23]TABLE 19. Indexes of Association Between the Level of Education of Females 20-64 Years of Age and that of their Mothers, by Age of Females, Canada, January, 1966

| Age of females and mothers' level of education | Femates' level of education |  |  |
| :---: | :---: | :---: | :---: |
|  | University | Secondary | Elementary |
| 20-24 years: |  |  |  |
| University. | 4.1 | 0.6 |  |
| Elementary | 1.4 | 1.0 | 0.3 1.6 |
| 25-44 years: |  |  |  |
| University. | 5.6 | 0.8 | * 0.3 |
| Secondary ................................................................. | 1.7 | 1.3 | 0.3 |
| Elementary ................................................................ | 0.5 | 0.9 | 1. 3 |
| 45-64 years: |  |  |  |
| Uni versity ........................................................................ | 5.4 | 1.1 | 0.3 |
| Secondary ........................................................................................................................ | 2.5 0.5 | 1.5 0.9 | 0.3 1.2 |
| Elementary ................................................................ | 0.5 | 0.9 | 1.2 |

- Based on estimate of less than 10,000 .


## Educational Self-recruitment

In view of the differences in educational mobility experienced by persons of different parental background, it is interesting to examine the composition of each education category, i.e. the parental background of sons and daughters in each category. The percentages in Tables 20 and 21 reveal the magnitude of the inflow from the fathers' and mothers' education categories to those of their sons and daughters. They indicate what proportion of sons and daughters was recruited from each parental category.

The data in Table 20, for example, show that 20.1 per cent of the sons who attended university were recruited from the 5.0 per cent of all fathers who attended university. On the other hand, 94.4 per cent of the sons with no more than elementary schooling were recruited from the elementary category, which accounts for 75.9 per cent of all fathers. The secondary category also depends heavily on the elementary category, reflecting the high proportion of fathers with no more than elementary schooling. About 70 per cent of the sons who attained secondary school have fathers in the elementary category while only 25.7 per cent come from secondary school origins. It is noticeable that, among sons who have attended university, an equal proportion have fathers in the elementary and secondary categories although the proportion of fathers in the elementary category is four times larger than the proportion in the secondary category. In Table 21, similar levels of association can be observed between the level of education of mothers and that of their sons, except among university-trained sons. In this category, half of the sons have been recruited from the secondary school category, which accounts for 23.2 per cent of all mothers. On the other
hand, only 11.3 per cent of the sons with a university education have mothers in the university category. It will be observed, however, that only 2.9 per cent of all mothers have a university education. Similar patterns of recruitment are evident when the level of education of females is considered.

The data in Tables 22, 23, 24 and 25 show the changing pattern of recruitment over time. They also shed some light on the trends underlying the changes over time indicated by the indexes of association. The data in Table 22, for example, indicate that the level of self-recruitment in the university category has remained steady at about 20 per cent in all age groups. The proportion of university-trained fathers, however, has been increasing from the oldest to the youngest age group of sons, causing the value of the index of association to fall. The level of self-recruitment at the secondary level rises from the oldest to the youngest age group. However, since the proportion of fathers in this education category increases at a faster rate, the value of the index for this category falis (see Table 16). In the elementary category, the level of self-recruitment remains high in all age groups (about 90 per cent or higher) while the proportion of fathers in this category falls. Thus the index of association does not fall, but actually rises slightly, suggesting that the general improvement in educational attainment noted earlier has perhaps bypassed a group in the population, leaving a pocket of poorly educated young persons. The consistently high degree of self-fecruitment in the elementary category, together with the falling proportion of fathers in this category suggest that sons of the younger, poorly educated fathers are being isolated from the increasing opportunity for educational advancement enjoyed by other groups in the education structure.

TABLE 20. Educational Attainment of Males 20-64 lears of ige, by Fathers' and Mothers' Level of Education, Canada, January, 1966: Inflow Percentages

| Parent and parent's level of education | Males' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| Fathers | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 5.0 | 20.1 | 4.1 | 0.8 |
| Secondary .............................................................. | 19.1 | 39.5 | 25.7 | 4.8 |
| Elementary ............................................................ | 75.9 | 40.4 | 70.2 | 94.4 |
| Mothers | 100.0 | 100.0 | 100.0 | 100.0 |
| University ................................................................ | 2.9 | 11.3 | 2.4 | 0.6 |
| Secondary .............................................................. | 23.2 | 49.5 | 30.2 | 6.7 |
| El ementary ............................................................ | 73.9 | 39.2 | 67.4 | 92.7 |

T ABLE 21. Lducational Attainment of Females $20-64$ Years of Age, by Fathers' and Mothers' Level of Education, Canada, January, 1966 : Inflow Percentages

| Parent and parent's level of education | Females' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| Fathers | 100.0 | 100.0 | 100.0 | 100.0 |
| University................................................................ | 5.5 | 21.9 | 5.6 | 1.0 |
| Secondary .............................................................. | 20.8 | 36.6 | 28.0 | 5.9 |
| Elementary ....................................................... |  | 41.5 | 66.4 | 93.1 |
| Mothers ........................................................... | 100.0 | 100.0 | 100.0 | 100.0 |
| University ............................................................ | 3. 0 | 16.1 | 2.5 |  |
| Secondary ............................................................... | 25.2 | 46.5 | 33.7 | 6.8 |
| Elementary ............................................................... | 71.8 | 37.4 | 63.8 | 92.7 |

* Based on estimate of less than 10,000.

TABLE 22. Fducational Attainment of Males 20-64 Years of Age, by Ige and Fathers Level of Education, Candad, January, 1966: Inflow Percentages

| Age of males and fathers' level of education | Males' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | El ementary |
| 20-24 years. | 100.0 | 100.0 | 100.0 | 100.0 |
| IJ niversity | 7. 2 | 20.6 | 4. 4 |  |
| Secondary | 33.2 | 47.5 | 36.6 | 9.3 |
| Elementary ............................................................ | 59.6 | 31.9 | 59.0 | 90.0 |
| 25-44 years. | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 5.2 | 20.7 | 4.2 |  |
| Secondary | 18.9 | 36.9 | 24.5 | 4.8 |
| Elementary .......................................................... | 75.9 | 42.4 | 71.3 | 94.6 |
| 45-64 years .................................................... | 100.0 | 100.0 | 100.0 | 100.0 |
| University ............................................................. | 3.7 | 18. 4 | 3.8 |  |
| Secondary | 13.3 | 37.1 | 20.7 | 4.1 |
| Elementary .......................................................... | 83.0 | 44.5 | 75.5 | 94.9 |

[^24]TABLE: 23. Educational Attainment of Males 20-64 Years of Age, by Age and Mothers' Level of Education, Canada, January, 1966: Inflow Percentages

| ge | Males' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| 20-24 years. | 100.0 | 100.0 | 100.0 | 100.0 |
| University ............................................................. | 5.0 | 15.3 | * | * |
| Secondary | 38.5 | 57.6 | 41. 4 | 10.9 |
| Elementary | 56.5 | 27.1 | 56.0 | 88.6 |
| 25-44 years | 100.0 | 100.0 | 100.0 | 100.0 |
| University .............................................................. | 2.9 | 10.4 | 2.5 | * |
| Secondary | 24.1 | 48.2 | 29.8 | 7.6 |
| El ementary.............................................................. | 73.0 | 41.4 | 67.7 | 91.7 |
| 45-64 years. | 100.0 | 100.0 | 100.0 | 100.0 |
| University ............................................................... | 1.9 | 9.2 | 2.2 | * |
| Secondary. | 15.6 | 44. 4 | 23.7 | 5.1 |
| Elementary................................................................. | 82.5 | 46. 4 | 74. 1 | 94.5 |

* Based on estimate of less than 10,000 .

TABLE 24. Educational Attainment of Females 20-64 Years of Age, by Age and Fathers' Level of Education, Canada, January, 1966: Inflow Percentages

| Age of females and fathers' level of education | Females' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| 20-24 years | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 6.8 | 21.9 | 5.5 |  |
| Secondary | 31.0 | 45.2 | 33.7 | 9.1 |
| Elementary | 62.2 | 32.9 | 60.8 | 90.6 |
| 25-44 years | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 5.4 | 22.5 | 5.2 |  |
| Secondary | 21.7 | 36.3 | 28.0 | 6.6 |
| Elementary | 72.9 | 41.2 | 66.8 | 92.4 |
| 4:5-64 years | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 5. 0 | 20.9 | 6.6 | - |
| Secondary | 15. 1 | 30.5 | 24. 2 | 4. 8 |
| Elementary | 79.9 | 48.6 | 69.2 | 94.1 |

[^25]TABLE 25. Educational Attainment of Females 20-64 Years of Age, by Age and Mothers' Level of Education, Canada, January, 1966: Inflow Percentages

| Age of females and mothers' level of education | Females' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| 20-24 years | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 4.4 | 18.2 | 2.7 |  |
| Secondary | 38.5 | 54.7 | 42.1 | 11.3 |
| Elementary | 57.1 | 27. 1 | 55.2 | 88.6 |
| 25-44 years | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 3.0 | 17.2 | 2. 3 |  |
| Secondary | 26.7 | 44. 2 | 34.4 | 7. 9 |
| Elementary | 70.3 | 38.6 | 63.3 | 91.7 |
| 45-64 years | 100.0 | 100.0 | 100.0 | 100.0 |
| University. | 2.3 | 12.6 | 2.5 |  |
| Secondary | 17.5 | 44.4 | 27.0 | 5.1 |
| Elementary .. | 80.2 | 43.0 | 70.5 | 94.3 |

- Based on estimate of less than 10,000 .


## EDUCATIONAL ATTAINMENT OF BOTH PARENTS IN RELATION TO INTERGENER ITION MOBILITY

So far, intergeneration mobility in educational attainment has been examined by considering the level of education of men or women and that of either their fathers or mothers, i.e., the levels of education of the fathers and mothers were considered separately. In Table 26, the education of respondents is examined in relation to both their fathers' and mothers' level of education. The table shows that if both father and mother have attended
university, 51.0 per cent of their children entered university, a proportion which is considerably higher than when only one parent is unitersityeducated. If both have attended elementary school, over 50 per cent of the respondents were found at that level of education, while if only one parent was poorly educated, the proportion of respondents remaining at that level ranges from 15.5 per cent to 20.8 per cent. In general, and not surprisingly.

TABLE 26. Level of Education of Respondents 14 Years of Age and Over, by Level of Education of Father and Mother, Canada, January. 1966

| Parent and parent's level of education |  | Respondents' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Father | Mother | Total | University | Secondary | Elementary |
| University | University | 100. 0 | 51.0 | 46.1 | * |
| Secondary | Secondary | 100, 0 | 18.8 | 74.9 | 6. 3 |
| Elementary | Elementary | 100.0 | 4.8 | 42.9 | 52.3 |
| University | Secnndary | 100.0 | 35.8 | 59.7 | 4.5 |
| Secondary | University | 100.0 | 38.4 | 57.6 | - |
| University | Elementary | 100.0 | 17.2 | 64.3 | 18.5 |
| Elementary | Uni versity . | 100.0 | 24.8 | 59.7 | 15.5 |
| Secondary | Elementary | 100.0 | 10.3 | 68.9 | 20.8 |
| Elementary ... | Secondary ......... | 100.0 | 9.8 | 70.1 | 20.1 |

[^26]the data provided show that the incidence of inheritance at any given level of parental education is much greater when both parents have the same level of education.

Table 26 also shows that if one parent has receired more education than the other, the proportion of respondents attending university is higher if the mother is the parent with the higher level of education. Thus, 17.2 per cent of the respondents whose fathers have entered university and whose mothers have obtained an elementary school education went to university themselves. In contrast, the proportion rises to 24.8 per cent if the mother has attended university and the father
nas attended elementary school. The same relationship is shown where one parent has a university education and the other a secondary school education: the proportion of respondents who attended university is higher it the mother is the more educated parent. ${ }^{20}$


#### Abstract

${ }^{20}$ However, the proportion of respondents who have attended university is not appreciably affected by differences in the parents' education when one parent has tro more than elementary schooling and the other has attended secondary school. Thus, if the father has attended secondary school and the mother has no more than elementary schooling, 10.3 per cent of the respondents attended university. If the educational attainment of the parents is reversed, 9.8 per cent of the respondents attended university.


## REGIONAL DIFFERENCES IN INTERGENERATION MOBILITY

Changes in educational attainment between generations are not uniform tnroughout Canada but differ from one region to another. The percentage outflows from each parental education category are shown in Tables 27 and 28, while inflow percentages for the regions appear in Tables 29 and 30. To lake account of interregional differences in
the educational attainment of parents, corresponding indexes are given in Tables 31 and 32.

First, the value of the index of association between university-trained respondents (sons and daughters) and fathers is markedly higher in the Atlantic region and Quebec than in the rest

TABLE 27. Educational Attainment of Respondents 14 Years of Age and Over, by Region and Fathers* Level of Education, Canada, January, 1966: Outflow Percentages


[^27]of Canada; it is well below the national figure in British Columbia (see Table 31). The same regional pattern is obscrved in Table 32, with respect to the educational attainment of mothers.

Secondly, the value of the index of association between university-trained respondents and fatners with a secondary school education varies from a high of 2.2 in Quebec to a low of 1.4 in British Columbia.

While the higher values of the index at the university level in the Atlantic region and Quebec suggest that the educational structure in these regions is more "rigid", i.e. educational inheritance is stronger, the higher level of association between university-trained respondents and fathers with a secondary school education indicate that opportunity for advancement is relatively higher in these regions than elsewhere in Canada. Since proportionately fewer tathers have attended university in the Atlantic region and in Quebec, the ranks of the university category in the respondents. generation have meen filled by a relatively higher degree of educational inheritance and by a relatively greater movement from the secondary to the university category. These patterns are shown in Tables 27 and 29. The data in Table 27 indicate that, in the Atlantic region, 36.9 per cent of the respondents with university-trained fathers entered
university while only 7.7 per cent of all respondents did so. In contrast, the corresponding proportions in British Columbia indicate that 35.4 per cent of the respondents from university origins entered university while fully 14.1 per cent of all respondents did so.

The data in Table 29 illustrate the second point, that there has been a relatively greater movement from the secondary to the university categny in the Atlantic region and Quebec. While 20.1 per cent of all fathers in the Atlantic rection have attended secondary school, 40.1 per cent of all university-trained respondents have fathers in the secondary category. In Quebec, the comparable figures are 17.3 per cent and 37.3 per cent respectively. In British Columbia, on the other hand, 31.3 per cent of the fathers have a secondary school education and their sons and daughters represent 44.2 per cent of all university-trained respondents, a relatively smaller increase in educational attainment between generations. Thus, while the proportion of fathers with a secondary school education is lower in the Atlantic region and in Quebec, the proportion of all universitytrained respondents drawn from this category is about as high as in the other regions but lower than in British Columbia, the province with the highest proportion of fathers in the secondary category.

TABI.F. 28. Educational Attainment of Respondents $1+$ Years of Age and Over, by Region and Mothers' Level of Education, Canada, January, 1966: Outflow Percentages

| Region and mothers* level of education | Respondents' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| Canada | 100.0 | 9.9 | 52.7 | 37.4 |
| University | 100.0 | 40.7 | 53.1 | 6.2 |
| Secondary | 100.0 | 17.9 | 71.6 | 10.5 |
| Elementary | 100.0 | 5.4 | 45.5 | 49.1 |
| Atlantic | 100.0 | 7.7 | 48.7 | 43.6 |
| University | 100.0 | 37.3 | 54.6 |  |
| Secondary | 100.0 | 14.9 | 69.9 | 15.2 |
| Elementary | 100.0 | 3.6 | 40.2 | 56.2 |
| Quebec | 100.0 | 9.1 | 46.4 | 44.5 |
| University | 100.0 | 47.3 | 46.2 |  |
| Secondary | 100.0 | 21.0 5.1 | 65.6 41.2 | 13.4 53.7 |
| Elementary | 100.0 | 5.1 |  | 53.7 |
| Ontario | 100.0 | 9.8 | 56.8 | 33.4 |
| University | 100.0 | 42.0 | 52.8 |  |
| Secondary | 100.0 | 16.7 | 75.2 | 8.1 |
| Elementary | 100.0 | 5.3 | 48.9 | 45.8 |
| Prairie | 100.0 | 10.5 | 54.1 | 35.4 |
| University | 100.0 | 35.0 | 56.8 |  |
| Secondary | 100.0 | 17.1 | 71.6 | 11.3 |
| Elementary | 100.0 | 6.3 | 46.8 | 46.9 |
| British Columbia | 100.0 | 13.9 | 61.0 | 25.1 |
| University | 100.0 | 41.1 | 54.8 | - |
| Secondary | 100.0 | 19.2 | 73.4 | 7.4 |
| Elementary | 100.0 | 7.8 | 54.1 | 38.1 |

[^28]TABLE 29. Educational Attainment of Respondents 14 Years of Age and Over, by Region and Fathers' Level of Education, Canada, January, 1966: Inflow Percentages

| Region and fathers' level of education | Respondents' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| Canada | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 5.8 | 21.2 | 6.2 | 1.0 |
| Secondary | 22.0 | 38.5 | 30.3 | 6.0 |
| Elementary | 72.2 | 40.3 | 63.5 | 93.0 |
| Atlantic | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 3.3 | 15.9 | 3.8 |  |
| Secondary | 20.1 | 40.1 | 29.2 | 6.5 |
| Elementary | 76.6 | 44.0 | 67.0 | 92.9 |
| Quebec | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 5.3 | 21.8 | 6.4 | 0.8 |
| Secondary | 17.3 | 37.3 | 25.0 | 5.1 |
| Elementary | 77.4 | 40.9 | 68.6 | 94.1 |
| Ontario | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 6.2 | 22.6 | 6.2 | 1.1 |
| Secondary | 24.2 | 38.7 | 32.8 | 5.5 |
| Elementary | 69.6 | 38.7 | 61.0 | 93.4 |
| Prairie | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 5.5 | 18.3 | 5.7 | 1.4 |
| Secondary | 22.5 | 35.3 | 29.8 | 7.4 |
| Elementary | 72.0 | 46.4 | 64.5 | 91.2 |
| British Columbia | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 9.1 | 22.9 | 8.8 | * |
| Secondary | 31.3 | 44.2 | 37.3 | 9.5 |
| Elementary | 59.6 | 32.9 | 53.9 | 88.4 |

* Based on estimate of less than 10.000 .

TARLE 30 . Educational Attainment of Respondents 14 Years of Age and Over, by Region and Mothers' Level of Education, Canada, January, 1966: Inflow Percentages

| Region and mothers. level of education | Respondents* level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
| Canada | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 3.2 | 13.3 | 3.2 | 0.5 |
| Secondary | 26.7 | 48.5 | 36.3 | 7.5 |
| Elementary | 70.1 | 38.2 | 60.5 | 92.0 |
| Atlantic | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 3.3 | 15.7 | 3.7 | * |
| Secondary ............................................................... | 26.8 | 51.7 | 38.5 | 9.4 |
| Elementary | 69.9 | 32.6 | 57.8 | 90.0 |
| Quebec | 100.0 | 100.0 | 100.0 | 100.0 |
| University | 1.8 | 9.2 | 1.8 | * |
| Secondary | 20.8 | 47.8 | 29.5 | 6.3 |
| Elementary | 77.4 | 43.0 | 68.7 | 93.5 |
| Ontario | 100.0 | 104. 0 | 100.0 | 100.0 |
| University | 3.2 | 13.9 | 3.0 | * |
| Secondary ............................................................. | 29.3 | 49.8 | 38.8 | 7.1 |
| Elementary | 67.5 | 36.3 | 58.2 | 92.4 |
| Prairie | 100.0 | 100.0 | 100.0 | 100.0 |
| University ................................................................ | 4.3 | 14.4 | 4.6 | - |
| Secondary | 27.8 | 45.0 | 36.7 | 8.9 |
| Elementary ........................................................ | 67.9 | 40.6 | 58.7 | 90.1 |
| British Columbia | 100.0 | 100.0 | 100.0 | 100.0 |
| University ............................................................ | 6.1 | 18.1 | 5.5 | * |
| Secondary ............................................................ | 35.9 | 49.5 | 43.1 | 10.7 |
| Elementary | 58.0 | 32.4 | 51.4 | 88.3 |

- Based on estimate of less than 10,000 .

TABIE 31. Indexes of Association Between the Level of Education of Respondents 14 Years of Age and Over and that of their Fathers, by Region, Canada, January, 1966


[^29]TABLE 32. Indexes of Association Retween the Level of Education of Respondents 14 Vears of Age and Over and that of their Hothers, by Region, Canada, January, 1966


* Based on estimate of less than 10,000 .


## SUMMARY

An examination of information on the educational attainment of respondents and that of their parents has revealed that, in Canada, the level of education of one generation is clearly influenced by that of the preceding generation. The strongest relationship occurs among uni-versity-trained parents and their sons or daughters, and particularly between mothers and daughters at this level of education. Short-distance moves between education categories are more common than long ones, i.e. the closer two categories are to one another, the greater the flow of persons between them. In the secondary and university categories, the influence of parental attainment in determining the educational attainment of sons or daughters appears to be declining over time.

However, this trend is not so clearly apparent among persons whose parents have no more than elementary schooling. This suggests that the general increase in educational attainment which has occurred during this century has been taking place less rapidly among persons whose parents are poorly educated. Furthermore, the incidence of inheritance at any given level of parental education is usually greater when both parents have the same level of education. Regional differences in upward educational mobility occur at the university level only. The degree of association between university-trained sons and daughters and their parents is highest in the Atlantic region and Quebec.

The data in this report was obtained by appending questions to the Labour force Survey of January 1966. The first two questions sought to determine the respondent's level of education and the province in which he or she nad obtained most of his or her schooling, classified by three levels. The questions were:

1. "How far did this person go in school?"
2. "In what province did this person obtain most of his (or her;

- elementary education?"
- high school or secondary education?"
- college or university education?".

Another question concerned the level of education of the respondent's parents. It read:
"How far did this person's parents go in school?"

## Scope of Monthly Labour Force Survey

In the Monthly Labour Force Survey, interviews are carried out in approximately 35,000 households chosen by area sampling methods across the country. ${ }^{21}$ The sample used in this survey has been designed to represent all persons in the population, 14 years of age and over, residing in Canada with the exception of residents of the Yukon and Northwest Cerritories, Indians living on reserves, inmates of institutions, and members of the armed forces. These excluded categories amount to about three per cent of the total population 14 years of age and over. Estimates derived from a sample survey are subject to sampling and other kinds of error. This aspect is discussed further under the heading "Reliability of Estimates".

## Definitions

The following are definitions of terms used in this study other than those for migrants and immigrants which were defined in the study.

Labour force. - The civilian labour force is composed of that portion of the civilian non institutional population 14 years of age and over who, during the reference week, were employed or unemployed.

Employed. - The employed includes all persons who, during the reference week:
(a) did any work for pay or profit;
(b) did any work which contributed to the running of a farm or business operated by a related member of the household; or

[^30](c) had a job, but were not at work, because of bad weather, illness, industrial dispute, or vacation, or because they were taking time off for other reasons.

Persons who had jobs but did not work during the reference week and who also looked for work are included in the unemployed as persons without work and seeking work.

Unemployed. - The unemployed includes all persons who, through the reference week:
(a) were without work and seeking work, i.e., did no work during the reference week and were looking for work; or would have been looking for work except that they were temporarily ill, were on indefinite or prolonged layoff, or believed no suitable work was available in the community; or
(b) were temporarily laid off for the full week; i.e., were waiting to be called back to a job from which they had been laid off for less than 30 days.

Not in the labour force. - Those not in the labour force include all civilians 14 years of age and over (exclusive of institutional population) who are not classified as employed or unemployed. This category includes those going to school, keeping house, too old or otherwise unable to work and those voluntarily idle or retired. Housewives, students and others who worked part-time are classified as employed. If they looked for work they are classified as unemployed.

## Levels of Education Used in the Report

Some primary school education or less. - This category includes persons with no schooling or reporting a few months only, and persons who started school but did not complete elementary education, which is Grade 8 for all provinces except Quebec where there are 7 years in the primary division. In a few cities where there are junior high schools, grades up to Grade 8, except in Quebec, were considered elementary.

Completed primary school education. - This category includes persons who completed Grade 8 (or Grade 7 in Quebec).

Some high school education. - This category includes persons who started but did not complete high school. High schools include all technical high schools and commercial high schools and the first four years of the classical colleges in Quebec and the primary, complementary and superior divisions, which are also in Quebec.

Completed high school education. - This category includes persons who completed high school. In Quebec the completion of superior division would be necessary to complete high school.

Some universily education. - This category includes persons who attended any courses in regular universities and colleges at the university level but did not ohtain a university degree.

University degree. - This category includes persons who ohtained a university degree such as B.A., B. Sc., M.A., D.D., etc.

## Median Years of School Completed

The median vear of school completed in that year which divides the population group in half with one half having completed more schooling and one half having completed less schooling than the median. To calculate the median years of schooling completed it is neressary to make some judgements in the selection of the class limits because the number of years required to complete certain levels of education are not uniform throughout the Canadian provinces. ${ }^{22}$ In the first study in this series - Educational Altainment of the Canadian Population and Labour Force: 1960-65-by Frank J. Whittingham, certain class limits were used to calculate median years of schooling which gave a range of years to both the completed elementary school education and completed high school education classes. This was felt necessary at the time because "completed elementary school", for example, could refer to 7 years of schooling in Quebec and 8 years in other provinces. While "completed secondary school" may be a correct answer even when it refers to either 11,12 , or 13 years depending on the province, it follows from this that there is a necessary aifference in the actual level of educational attainment achieved.

[^31]However, it is now telt, because most medians will be found in the range of educational attainment that falls between these two classes (i.e. some secondary schooling), that it is preferable to concentrate on defining this group. The medians for this study therefore have been calculated on the assumption that the terms "completed elementary schooling" and "completed secondary schooling" refer to a fixed number of years (obtained by an approximate weighting of the relevant levels for each province). The result of this exercise is that the term "some secondary schooling" in this study has a range of 7.75 to 12.25 years compared with 8.5 to 11.5 years in the earlier study. It is felt that the merit of the new approactı is that a student who, if the actual years of education were available, was at the top end of the "some secondary schooling" class, woulu be from a province where 13 years of schooling were necessary to complete secondary schooling and he or she would therefore have obtained 12 or a little over 12 years of education. Similarly a person whose education was terminated at the bottom end of this class would most likely have come from Quebec and may not even have completed his of her eighth year of schooling. It therefore provides a more sensitive measure of educational attainment in what are the critical class ranges when calculating medians.

For the reader's information, the tables in which medians were used in the first study in this series-Educational Attainment of the Canadian Population and Labour lorce, 1960-65 - have been calculated using the class boundaries discussed above. These revised tables are presented below. The numbers of the tables are those which were used in the original publication. The new measures of median years of education do not alter the conclusions stated in the original publication.

## TABLE 3. Median Years of Education Completed for Cohorts of Native-born Population, by Sex, February, 1965

| Age in 1956 | Median level of education hy sex |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year of birth | Male population | \% change in median years between male cohorts | Female population | \% change in median years between female cohorts |
| 65 years and over | Before 1900 | 7.8 |  | 7.8 |  |
| 55-64 years | 1900-09 | 7.8 | 0.0 | . 8 | 0.0 |
| 45-54 '/ | 1910-19 | 7.8 | 0.0 | 8.6 | 10.3 |
| 35-44 | 1920-29 | 8.7 | 11.5 | 9.3 | 8.1 |
| 25-34 . | 1930-39 | 9.4 | 8.0 | 10.1 | 8.6 |
| 20-24 ${ }^{\text {c }}$ | 1940-44 | 10.7 | 13.8 | 11.2 | 10.9 |

TABLE 11. Educational Attainment of Native-born and Post-war Immigrant Labour Force, 14 Years of Age and Over, Febuary, 1965

| Level of education | Lahour force |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Native-horn |  |  | Post-war immigrant |  |  |
|  | Both sexes <br> sexe | Male | Female | Both sexes | Male | Female |
|  | per cent distribution |  |  |  |  |  |
| Totals | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Completed elementary school education or less | 37.9 | 42.7 | 25.9 | 40.2 | 41.9 | 36.1 |
| Some high school education | 34.6 | 33.7 | 36.8 | 24.3 | 24.0 | 25.1 |
| Completed high school education or attented university | 22.4 | 18.3 | 32.8 | 27.6 | 25.2 | 33.3 |
| University degree ....... | 5.1 | 5.3 | 4.5 | 7.9 | 8.9 | 5.5 |
| Median years of education completed | 9.3 | 8.7 | 10.7 | 9.6 | 9.3 | 10.2 |

TABLE 12. Aducational Attainment of Native-born and Post-war Immigrant Labour Force, by Age and Sex, Febuary, 1965


[^32]TABLE 20. Educational Attainment of the Labour Force, by Age,
Februars, 1960 and February, 1965

|  | F having less than completed high school educatlon |  | \% having completed high school education or attended university |  | ci. having a university degree |  | Median years of education completed |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1960 | 1965 | 1960 | 1965 | 1960 | 1965 | 1960 | 1965 |
| 20-24 years | 69.2 | 60.8 | 30.9 | 39.2 | 2.7 | 3.6 | 9.8 | 11.0 |
| 25-44 | 73.3 | 68.5 | 26.7 | 30.4 | 5.7 | 6.8 | 8.9 | 9.6 |
| 45-64 - | 77.7 | 75.1 | 22.3 | 24.8 | 4.7 | 5.7 | 7.8 | 7.9 |
| 65 years and over | 79.4 | 79.0 | 20.6 | 21.0 | 5.6 | 5.7 | 7.8 | 7.8 |

TABLF 21. Fducational Attainement of the Male and Female I.abour Force, by Age and Level of Education, February, 1960 and February, 1965

|  | 5. having completed elementary school education or less |  |  |  | \% having some high school education |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1960 |  | 1965 |  | 1960 |  | 1965 |  |
|  | M | $F$ | M | F | M | $F$ | M | $F$ |
| 20-24 y ears | 40.2 | 21.8 | 27.2 | 15.5 | 36.8 | 33.6 | 41.8 | 32.2 |
| 25-44 | 45.8 | 29.4 | 39.3 | 26.8 | 30.3 | 34.1 | 33.1 | 34.2 |
| 45-64 " | 59.6 | 41.2 | 53.2 | 37.4 | 20.9 | 26.6 | 24.4 | 30.6 |
| 65 years and over | 67.2 | 50.0 | 63.9 | 51.5 | 14.4 | 17.6 | 17.3 | 19.4 |
|  | \% having completed high school education or more |  |  |  | Median years of school completed |  |  |  |
|  | 1960 |  | 1985 |  | 1960 |  | 1965 |  |
|  | M | $F$ | M | $F$ | M | $F$ | M | $F$ |
| 20-24 years | 22.9 | 44.7 | 31.1 | 52.2 | 8.9 | 11.5 | 10.2 | 12.2 |
| 25.44. | 23.9 | 36.6 | 27.6 | 39.0 | 8.4 | 10.5 | 9.2 | 10.8 |
| 45-64 " | 19.6 | 32.2 | 22.4 | 32.0 | 7.8 | 9.2 | 7.8 | 9.6 |
| 65 years and over | 18.4 | 32.3 | 18.7 | 29.0 | 7.8 | 7.8 | 7.8 | 7.8 |

## B. RELIABILITY OF ESTIMATES

## Sampling Error

The estimates in this report are based on a sample of households. Somewhat different figures might have been obtained if a complete census had been taken using the same questionnaires, enumerators, supervisors, processing, etc. This difference is called the sampling error of the estimates. In the design and processing of the Labour Force Survey extensive efforts have been made to minimize the sampling error. The sampling error (expressed as a per cent of the estimate it refers to) is not the same for all estimates; of two estimates the larger one will likely have a smaller per cent sampling error, and of two estimates of the same size the one referring to a characteristic more evenly distributed across the country will tend to have a smaller percent sampling variability. Also, estimates relating to age and sex are usually more reliable than other estimates of comparable size.

## Non-sampling Errors

Errors, which are not related to sampling, may occur at almost every phase of a survey operation. Enumerators may misunderstand instructions, respondents may make errors in answering questions, the answers may be incorrectly entered on the questionnaires and errors may be introduced in the processing and tabulation of the data. All these errors are called non-sampling errors. Some of the non-sampling errors will usually balance out over a large number of observations but systematically occurring errors will contribute to biases. Nonsampling errors can be reduced by a careful design of questionnaires, intensive training and supervision of enumerators and a thorough control of the processing operation. In general, the more personal and more subjective inquiries are subject to larger errors. Also, data referring to persons with less stable labour force status will have relatively large non-sampling errors.

## C. COMPARISON OF EDUCATIONAL ATTAINMENT IN CANADA AND IN THE UNITED STATES (1966)

A previous Special Labour Force Study contained a comparison of educational attainment in Canada and in the United States. ${ }^{23}$ Similar data collected more recently are presented below. The Canadian data were obtained in January 1966 and those from the United States in March 1966. Since both these months fall in the same school year, the data are generally comparable.
${ }^{23}$ See F. J. Whittingham, op. cit., p. 19.

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C3. Percentage Distribution of Population 14 Years of Age and Over, by Level of Education, Age and Sex, United States (March, 1966) and Canada (January, 1966).

TABLEC C. Population 14 Years of Age and Over, by Age, Level of Education and Sex, Canada, January, 1966


[^33]TABLE C 2. Population 14 Years of Age and Over, by Age. Level of Fducation and Sex, United States, March, 1966


Source: Current Population Reports - "Population Characteristics" Series P-20, No 158, Page 7. Table 1, U.S. Dept. of Commerce.

TABLEC 3. Percentage Distribution of Population 14 years of Age and Over, by Level of Education, Age and Sex. United States (March, 1966) and Canada (January, 1966)


[^34]
## D. EDUCATIONAL ATTAINMENT IN CANADA, FEBRUARY, 1967

Following the Labour Force Survey of January 1966, another Survey of educational attainment in Canada was conducted in February 1967. The data obtained from that Survey are presented below. Both the numerical and percentage distributions are shown.

## List of Tables

Table
D 1. Population 14 Years of Age and Over, by Age, Level of Education and Sex, Canada, February, 1967.
D2. Percentage Distribution of Population 14 Years of Age and Over, by Age, Level of Education and Sex, Canada, February, 1967.

TABLE D 1. Population 14 Years of Age and Oyer, by Age, Level of Education and Sex, Canada, February, 1967

| Sex and level of education | Age |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | 14-19 | 20-24 | 25 and over | 25-34 | 35-44 | 45-54 | 55-64 | 65 and over |
|  | estimates in thousands |  |  |  |  |  |  |  |  |
| Both sexes | 13.717 | 2. 271 | 1,489 | 9,957 | 2.413 | 2,499 | 2, 084 | 1,500 | 1.461 |
| Some elementary school education or less .................. | 2,552 | 259 | 116 | 2,178 | 293 | 411 | 433 | 463 | 578 |
| Completed elementary school education ..................... | 2.507 | 152 | 166 | 2.188 | 395 | 534 | 462 | 384 | 414 |
| Some secondary school education | 4.912 | 1,536 | 525 | 2,851 | 861 | 805 | 618 | 335 | 232 |
| Completed secondary school education ........................ | 2,452 | 204 | 436 | 1.811 | 557 | 494 | 390 | 209 | 161 |
| Some university education | 745 | 119 | 189 | 437 | 149 | 112 | 87 | 52 | 36 |
| University degree ....................................................... | 549 | - | 56 | 492 | 158 | 143 | 94 | 57 | 40 |
| Male | 6,798 | 1,153 | 743 | 4,902 | 1,195 | 1,238 | 1,034 | 751 | 684 |
| Some elementary school education or less | 1,359 | 151 | 66 | 1.142 | 154 | 217 | 224 | 246 | 301 |
| Completed elementary school education | 1. 268 | 79 | 87 | 1,102 | 208 | 277 | 237 | 196 | 184 |
| Some secondary school education | 2,395 | 784 | 266 | 1.345 | 418 | 376 | 296 | 158 | 98 |
| Completed secondary school education | 998 | 77 | 175 | 745 | 226 | 206 | 165 | 89 | 60 |
| Some university education | 412 | 62 | 121 | 229 | 83 | 60 | 45 | 25 | 16 |
| University degree ...................................................... | 366 | * | 28 | 338 | 106 | 102 | 66 | 38 | 25 |
| Female | 6, 919 | 1,118 | 746 | 5. 055 | 1,218 | 1,261 | 1,050 | 749 | 777 |
| Some elementary school education or less | 1. 194 | 108 | 50 | 1.036 | 139 | 194 | 208 | 217 | 277 |
| Completed elementary school education | 1.239 | 74 | 79 | 1.086 | 187 | 257 | 224 | 188 | 229 |
| Some secondary school education | 2.517 | 752 | 260 | 1.505 | 443 | 429 | 322 | 178 | 135 |
| Completed secondary school education ........................ | 1,454 | 127 | 261 | 1.06\% | 332 | 288 | 225 | 120 | 101 |
| Some university education ............................................ | 333 | 56 | 68 | 208 | 65 | 52 | 43 | 27 | 21 |
| University degree ....................................................... | 183 | * | 28 | 155 | 52 | 41 | 28 | 19 | 14 |

[^35]TABLE D 2. Percentage Distribution of Population 14 Years of Age and Over, by Age, Level of Education and Sex, Canada, February, 1967

| Sex and level of education | Age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | 14-19 |  | 20-24 | $\begin{aligned} & 25 \text { and } \\ & \text { over } \end{aligned}$ |
|  | per cent |  |  |  |  |
| Both sexes | 100. | 100.0 |  | 100.0 | 100, 0 |
| Some elementary school education or less | 18. | 11.4 |  | 7.8 | 21.9 |
| Completed elementary school education | 18.3 | 6. 7 |  | 11.1 | 22.0 |
| Some secondary school education | 35.8 | 67.7 |  | 35.3 | 28.6 |
| Completed secondary school education | 17.9 | 9.0 |  | 29.3 | 18. 2 |
| Some university education ...... | 54. | 5. 2 |  | 12.7 | 4.4 |
| University degree ............................................................... |  | - |  | 3.8 | 4.9 |
| Male ................................................................................. | 100.0 | 100.0 |  | 100.0 | 100. 0 |
| Some elementary school education or less | 20.0 | 13.1 |  | 8.9 | 23. 3 |
| Completed elementary school education .............................. | 18.7 | 6.8 |  | 11.7 | 22.5 |
| Some secondary school education. | 35.2 | 68.0 |  | 35.8 | 27. 4 |
| Completed secondary school education .................................. | 14.7 | 6. 7 |  | 23.6 | 15. 2 |
| Some university education .................................................... | 6.1 | 5.4 |  | 16.3 | 4. 7 |
| University degree ....... | 5.3 | - |  | 3.7 | 6. 9 |
| Female .......... | 100.0 | 100.0 |  | 100.0 | 100.0 |
| Some elementary school education or less | 17.3 | 9.7 |  | 6.7 | 20.5 |
| Completed elementary school education. | 17.9 | 6.6 |  | 10.6 | 21.5 |
| Some second ary school education | 36.4 | 67.3 |  | 34.8 | 29.8 |
| Completed secondary school education ................................. | 21.0 | 11.4 |  | 35.0 | 21.1 |
| Some university educatlon | $\begin{aligned} & \text { 4. } 8 \\ & 2.6 \end{aligned}$ | 5.0 |  | 9.2 | 4.1 |
| University degree.Both sexes ..... |  | , |  | 3.7 | 3.0 |
|  | 25-34 | 35-44 $\quad 45-54$ |  | $55-64$ | 65 and over |
|  | per cent |  |  |  |  |
|  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Some elementary school education or less | 12. 1 | 16.4 | 20.8 | 30.8 | 39.6 |
| Completed elementary school education ................................ | 16.4 | 21.4 | 22.2 | 25.6 | 28.3 |
| Some secondary school education ......................................... | 35.7 | 32.239 |  | 22.4 | 15.9 |
| Completed secondary school education .................................. | 23.1 | 19.8 18.7 |  | 13.9 | 11.0 |
| Some universlty education .................................................... | 6.2 | 4.5 4.2 |  | 3.5 | 2.5 |
| University degree .............................................................. | 6.5 | 5.7 | 4. 5 | 3.8 | 2.7 |
| Male ........................................................................................ | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Some elementary school education or less ............................ | 12.9 | 17.5 21.7 |  | 32.7 | 44.0 |
| Completed elementary school education ............................... | 17.4 | 22.4 22.9 |  | 26.1 | 27.0 |
| Some secondary school education ............................................ | 35.0 | 30.3 28.7 |  | 21.0 | 14.3 |
| Completed secondary school education .................................. | 18.9 | 16.6 16.0 |  | 11.8 | 8.7 |
| Some university education .................................................... | 7.0 | 4.9 4.3 |  | 3.3 | 2.3 |
| Unlversity degree .............................................................. | 8. 8 | 8.3 | 6.4 | 5.1 | 3.7 |
| Female ........................................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Some elementary school educatlon or less ............................... | 11.4 | $15.4 \quad 19.8$ |  | 29.0 | 35.7 |
| Completed elementary school education ............................... | 15.4 | 20.4 21.4 |  | 25.1 | 29. 5 |
| Some secondary school education ......................................... | 36.3 | $34.0 \quad 30.6$ |  | 23.7 | 17.3 |
| Completed secondary school education .................................. | 27.2 | 22.9 | 21.4 | 16.0 | 13.0 |
| Some university education ...................................................... | 5.4 | 4.1 | 4.1 | 3.6 | 2.7 |
| Universily degree ............................................................... | 4. 3 | 3.2 | 2. 7 | 2.6 | 1.8 |

[^36]
## E. TYPE OF SECONDARY SCHOOL COURSE ATTENDED, OCCUPATIONAL AND PROFESSION.IL EDUCATION IN CANADA, JANUARY, 1966

The Labour Force schedule of January 1966 included two questions regarding the nature of the high school (regular or academic, commercial or business, technical, vocational or occupational) in which the respondent was enrolled and the type of occupational or professional course (if any) taken by the respondent since September, 1965. The two questions read

1. "What high school or secondary school course did this person take?"
2. 'Since last September has this person taken any occupational or professional course at school, at work, or by correspondence?"

I'he data derived from these questions are presented below. It should be noted that columns may not add up to marginal totals due to rounding. Percentage distribution of the data are also provided.

## List of Tables

Table
E1. Population 20-64 Years of Age with no more than Secondary School Education, by Labour Force Status, Sex, Age and Nature of Secondary School Course, Canada, January, 1966.
E2. Population 20-64 Years of Age by Sex, Level of Education and Occupational Course Taken, Canada, January, 1966.
E3. Population by Age, Sex and Occupational Course Taken, Canada, January, 1966.
E4. Labour Force, by Age, Sex and Occupational Course Taken, January, 1966.
E5. Percentage Distribution of Population and Labour Force, by Age and OccupationalCourse Taken, Canada, January, 1966.

TABLEE1. Population 20-64 Years of Age with no more than Secondary School Education, by Labour Force Status, Sex, Age and Nature of Secondary School Course, Canada, January. 1966

| Age and nature of course | Both sexes |  |  |  | Male |  |  |  | Female |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Labour force |  | Not in labour force | Total | Labour force |  | Not in labour force | Total | Labour force |  | Not in labour force |
|  |  | Some secondary | Completed secondary |  |  | Some secondary | Completed secondary |  |  | Some secondary | Completed secondary |  |
|  | estimates in thousands |  |  |  |  |  |  |  |  |  |  |  |
| 20-64 years | 4, 890 | 2,004 | 1,204 | 1,682 | 2,211 | 1,404 | 722 | 85 | 2,679 | 599 | 482 | 1,59 ${ }^{\text {a }}$ |
| Regular | 3,513 | 1,490 | 820 | 1. 203 | 1.633 | 1.069 | 504 | 60 | 1.880 | 421 | 316 | 1.143 |
| Commercial | 721 | 198 | 207 | 316 | 162 | 69 | 87 | . | 559 | 129 | 120 | 311 |
| Technical | 382 | 200 | 135 | 47 | 305 | 186 | 107 | 12 | 77 | 14 | 28 | 35 |
| Not stated | 274 | 115 | 42 | 116 | 111 | 80 | 24 | . | 162 | 36 | 18 | 108 |
| 20-24 years | 871 | 351 | 286 | 234 | 391 | 255 | 136 | 30 | 480 | 126 | 150 | 204 |
| Regular | 587 | 254 | 177 | 156 | 275 | 168 | 87 | 19 | 312 | 86 | 90 | 136 |
| Commercial | 157 | 41 | 66 | 51 | 33 | 10 | 21 | . | 124 | 30 | 45 | 49 |
| Technical | 72 | 33 | 30 | 10 | 57 | 31 | 20 | - | 16 | - | 10 | - |
| Not stated | 55 | 23 | 18 | 17 | 26 | 16 | . | - | 28 | * | - | 15 |
| 25-44 years | 2,606 | 1,080 | 585 | 941 | 1,172 | 775 | 377 | 19 | 1,435 | 304 | 208 | 922 |
| Regular | 1.846 | 794 | 398 | 653 | 866 | 588 | 263 | 15 | 979 | 206 | 135 | 638 |
| Commercial | 401 | 108 | 91 | 202 | 73 | 34 | 38 | - | 328 | 74 | 53 | 202 |
| Technical | 220 | 119 | 77 | 25 | 178 | 110 | 65 | - | 43 | * | 11 | 23 |
| Not stated .. | 139 | 59 | 19 | 61 | 55 | 43 | 11 | - | 85 | 16 | - | 59 |
| 45-64 years | 1,413 | 572 | 333 | 507 | 648 | 403 | 209 | 36 | 765 | 169 | 125 | 471 |
| Regular | 1.081 | 442 | 245 | 394 | 492 | 313 | 154 | 26 | 589 | 129 | 92 | 368 |
| Commercial | 163 | 49 | 50 | 63 | 56 | 24 | 28 | - | 107 | 25 | 22 | 60 |
| Technical | 89 | 49 | 29 | 12 | 70 | 45 | 22 | * | 19 | - | - | - |
| Not stated .............. | 80 | 33 | - | 38 | 30 | 21 | 2 | * | 50 | 12 | * | 34 |

[^37]TABLE E 2. Population 20-64 Years of Age by Sex, Level of Education and Occupational Course Taken, Canada, January, 1966

| Type of course | Both sexes |  |  |  | Male |  |  |  | Female |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Elemen tary ${ }^{2}$ | Secondary ${ }^{1}$ | University ${ }^{1}$ | Total | $\begin{aligned} & \text { Elemen- } \\ & \text { tary }^{1} \end{aligned}$ | Secondary ${ }^{1}$ | University ${ }^{1}$ | Total | Elemen$t^{2 r y}{ }^{1}$ | Secondary ${ }^{1}$ | University ${ }^{1}$ |
|  | estimates in thousands |  |  |  |  |  |  |  |  |  |  |  |
| 20-64 years .................................. | 9,688 | 3.713 | 4,890 | 1,085 | 4,808 | 1,955 | 2,211 | 642 | 4,880 | 1,757 | 2,679 | 443 |
| At work, | 137 | 15 | 96 | 27 | 113 | 13 | 76 | 23 | 24 | * | 20 | * |
| At school (part-time or evening >........... | 326 | 34 | 185 | 107 | 192 | 20 | 108 | 63 | 134 | 14 | 77 | 44 |
| By correspondence .............................. | 83 | * | 55 | 19 | 65 | * | 42 | 15 | 18 | * | 12 | * |
| No course ............................................. | 8.995 | 3,576 | 4,498 | 920 | 4,336 | 1,854 | 1,950 | 532 | 4,659 | 1,721 | 2,548 | 389 |
| Not stated ............................................ | 146 | 79 | 56 | 11 | 102 | 59 | 35 | * | 44 | 19 | 22 | * |

sity" ${ }^{1}$ In this table, "Elementary" refers to "completed elementary education or less". "Secondary", to "some or completed secondary education" and "University" to "some university education or degree".

- Estimate of less than 10,000 .

TABLEE 3. Population by Age, Sex and Occupational Course Taken, Canada, January, 1966


[^38]TARLEE 4. Labour Force, by Age, Sex and Occupational Course Taken, January, 1966


* Estimate of less than 10,000 .

TABLE E 5. Percentage Distribution of Population and Labour Force, by Age and Occupational Course Taken,
Canada, January. 1966

| Sex and age | Type of course |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | At work |  | At school (part-time or evening) |  |
|  | Population | Labour force | Population | Labour force | Population | Labour force |
| Both sexes per cent | per cent |  |  |  |  |  |
| 14-64 years ....................................... | 100.0 | 100.0 | 1.3 | 2.3 | 3.1 | 4.5 |
| 14-19 years .............................................. | 100.0 | 100.0 | 1.0 | 3.3 | 2. 0 | 6.1 |
| 20-24 " ................................................ | 100.0 | 100.0 | 3.1 | 4.5 | 6.1 | 8.5 |
|  | 100.0 | 100.0 100.0 | 1.5 | 2.3 | 3.9 1.5 | 4.8 1.8 |
| Male |  |  |  |  |  |  |
| 14-64 years | 100.0 | 100.0 | 2.0 | 2.5 | 3.6 | 4.4 |
| 14-19 years ............................................... | 100.0 | 100.0 | * | * | 2.1 | 6.2 |
| 20-24 ${ }^{\text {I }}$. | 100.0 | 100.0 | 4.1 | 4. 9 | 7.8 | 9.4 |
|  | 100.0 100.0 | 100.0 100.0 | 2.7 | 2.8 1.3 | 4.9 1.2 | 5.0 1.3 |
| Female |  |  |  |  |  |  |
| 14-64 years | 100.0 | 100.0 | 0.7 | 1.9 | 2.6 | 4.7 |
| $\begin{aligned} & 14-19 \text { years } \\ & 20-24 \\ & 25-44 \\ & 45-64 \end{aligned} \quad \text { " }$ | 100.0 | 100.0 | 1.4 | 5.0 | 1.9 | 5.9 |
|  | 100.0 | 100.0 | 2.1 | 3.8 | 4.4 | 7.0 |
|  | 100.0 100.0 | 100.0 100.0 |  | * | 3.0 1.8 | 4.2 3.3 |
|  | By correspondence |  | No course |  | Not stated |  |
|  |  |  |  |  |  |  |
|  | Population | Labour force | Population | Labour force | Population | Labour force |
|  | per cent |  |  |  |  |  |
| 14-64 years | 0.8 | 1.2 | 93.3 | 89.4 | 1.5 | 2.6 |
| $\begin{aligned} & 14-19 \text { years } \\ & 20-24 \\ & 25-44 \\ & 45-64 \\ & 45 \end{aligned}$ $\qquad$ $\qquad$ $\qquad$ <br> Male | $\begin{aligned} & 0.5 \\ & 1.6 \\ & 1.1 \\ & 0.3 \end{aligned}$ | $\begin{aligned} & 1.5 \\ & 2.1 \\ & 1.5 \end{aligned}$ | $\begin{aligned} & 95.1 \\ & 87.4 \\ & 92.1 \\ & 96.1 \end{aligned}$ | $\begin{aligned} & 84.4 \\ & 82.3 \\ & 89.2 \\ & 94.2 \end{aligned}$ | $\begin{aligned} & 1.4 \\ & 1.8 \\ & 1.4 \\ & 1.5 \end{aligned}$ | $\begin{aligned} & 4.7 \\ & 2.6 \\ & 2.2 \\ & 2.5 \end{aligned}$ |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 14-64 years | 1.2 | 1.5 | 91.1 | 89.1 | 2.1 | 2.5 |
| $\begin{aligned} & 14-19 \text { years } \\ & 20-24 \\ & 25-44 \\ & 45-64 \end{aligned}$ $\qquad$ $\qquad$ $\qquad$ <br> Female | 2.61.7 | 3.11.8 | $\begin{aligned} & 94.9 \\ & 83.1 \\ & 88.7 \\ & 95.1 \end{aligned}$ | $\begin{aligned} & 84.6 \\ & 79.7 \\ & 88.3 \\ & 94.6 \end{aligned}$ | $\begin{aligned} & 1.7 \\ & 2.4 \\ & 2.0 \\ & 2.2 \end{aligned}$ | 5.22.92.12.4 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 90.0 |  |  |
| 14-64 y ears | 0.4 | 0.7 | 95.4 |  | 0.9 | 2.7 |
|  | 0.4 | : | $\begin{aligned} & 95.3 \\ & 91.7 \\ & 95.5 \\ & 96.9 \end{aligned}$ | $\begin{aligned} & 84.1 \\ & 86.2 \\ & 91.8 \\ & 92.9 \end{aligned}$ | 1.10.80.9 | 4.12.4 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  | 2.9 |

[^39]
## F. DETAILED TABLES

The following tables contain data related to the material discussed in this report. It should be noted that, due to rounding, columns may not add up to the totals in the tables. A list of the tables follows:

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Table
F 1. Population 14 Years of Age and Over, by Age and Level of Education, Canada and Regions, January, 1966.

F 2. Labour Force, by Occupational Group and Sex, Canada, January, 1966.
F 3. Labour Force, by Level of Education, Occupational Group and Sex, Canada, January, 1966.
F 4. Population 20 Years of Age and Over, by Age, Highest Level of Education Attained and Residence in January 1966 in Relation to Province in which that Level was Attained, Canada.
F 5. Population 20 Years of Age and Over, by Level of Education, Region in which that Level was Attained and Residence in January, 1966, Canada.
F 6. Educational Attainment of Males 20-64 Years of Age, by Fathers' and Mothers' Level of Education, Canada, January, 1966.
F 7. Educational Attainment of Females 20-64 Years of Age, by Fathers' and Mothers' Level of Education, Canada, January, 1966.
F 8. Educational Attainment of Males 20-64 Years of Age, by Age and Fathers' Level of Edu cation, Canada, January, 1966.

F 9. Educational Attainment of Males 20-64 Years of Age, by Age and Mothers' Level of Education, Canada, January, 1966.

F10. Educational Attainment of Females 20-64 Years of Age, by Age and Fathers' Level of Education, Canada, January, 1966.

F11. Educational Attainment of Females 20-64 Years of Age, by Age and Mothers' Level of Education, Canada, January, 1966.

F 12. Level of Education of Respondents 14 Years of Age and Over, by Level of Education of Father and Mother, January, 1966.
F13. Educational Attainment of Respondents 14 Years of Age and Over, by Fathers' Level of Education, Canada and Regions, January, 1966.
F14. Educational Attainment of Respondents 14 Years of age and Over, by Mothers' Level of Education, Canada and Regions, January, 1966.

TABLE F 1 Population 14 Years of Age and Over, by Age and Level of Education, Canada and Regions, January, 1966

| Age and level of education | Canada | Alantic | Queher | Ontarisi | Prairie | British Columbia |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | estimates in thousands |  |  |  |  |  |
| 14 years and over............................................ | 13.305 | 1.279 | 3,852 | 4,683 | 2,227 | 1,264 |
| Completed elemontary school education or less ...... | 5,035 | 557 | 1.705 | 1,612 | 813 | 347 |
| Some or completed sccondary scriool education ..... | 6. 984 | 625 | 1,785 | 2,630 | 1,188 | 757 |
| Some university education or degree ....................... | 1.286 | 97 | 362 | 441 | 226 | 160 |
| 14 - 19 years .................................................. | 2,184 | 256 | 673 | 710 | 363 | 184 |
| Completed elementary school education or less ..... | 367 | 80 | 117 | 99 | 58 | 13 |
| Some or completed secondary school education ...... | 1,696 | 163 | 502 | 590 | 284 | 158 |
| Some university education or degree ...................... | 121 | 13 | 54 | 21 | 21 | 13 |
| 20-24 years .................................................. | 1,382 | 148 | 457 | 439 | 221 | 118 |
| Completed elementary school education or less ..... | 271 | 39 | 126 | 61 | 33 | 13 |
| Some or completed secondary school education ...... | 871 | 90 | 258 | 301 | 144 | 78 |
| Some university education or degree ....................... | 240 | 19 | 73 | 77 | 44 | 27 |
| 25-44 years .................................................. | 4,827 | 399 | 1,442 | 1,753 | 784 | 450 |
| Completed elementary school education or less ...... | 1.674 | 161 | 655 | 533 | 234 | 91 |
| Some or completed secondary school education ..... | 2.606 | 202 | 635 | 1,021 | 457 | 291 |
| Some university education or degree....................... | 547 | 36 | 152 | 199 | 93 | 68 |
| 45-64 y ears ................................................... | 3,477 | 326 | 948 | 1,235 | 598 | 349 |
| Completed elementary school education or less ...... | 1.767 | 175 | 576 | 573 | 306 | 136 |
| Some or completed secondary school education ..... | 1,413 | 130 | 304 | 568 | 238 | 173 |
| Some university education or degree ....................... | 297 | 21 | 68 | 114 | 54 | 40 |
| 65 years and over.......................................... | 1,433 | 149 | 332 | 326 | 261 | 164 |
| Completed elementary school education or less ...... | 955 | 102 | 230 | 345 | 182 | 95 |
| Some or completed secondary school education..... | 398 | 40 | 87 | 150 | 64 | 57 |
| Some university education or degree....................... | 80 | - | 15 | 31 | 15 | 12 |

- Estimate of less than 10,000 .

TABLE F 2. Labour Force, by Occupational Group and Sex, Canada, January, 1966

| Sex | Total ${ }^{1}$ | "White collar" | "Blue collar" | Service and recreation | $\begin{gathered} \text { Transportation } \\ \text { and } \\ \text { comunication } \end{gathered}$ | Primary ${ }^{4}$ occupations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | estimates in thousands |  |  |  |  |  |
| Both sexes ................................................... | 7,079 | 2,981 | 2,231 | 814 | 410 | 643 |
| Male ..................................................................... | 4.988 | 1,713 | 1,959 | 345 | 375 | 596 |
| Female.. | 2. 091 | 1.268 | 272 | 469 | 35 | 47 |

*Total excludes an estimated 14,000 unemployed persons who have never worked.
Includes persons in managerial, professional and technical, clerical and sales occupations,
Includes craftsmen, production process and related workers and labourers not elswhere specified categories.
Includes farmers and farm workers, loggers and related workers, fishermen, trappers and hunters, miners, quarrymen and related workers.

TABLEF 3. Labour Force, by level of fiducation, Occupational Group and Sex, Canada, January, 1966

| Level of education | Occupational group |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | "White collar" ${ }^{\text {a }}$ |  | "Blue collar" ${ }^{2}$ |  | Service and recreation |  | Transportation and communication |  | Primary occupations ${ }^{3}$ |  |
|  | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
|  | estimates in thousands |  |  |  |  |  |  |  |  |  |
| Totals .................................................................. | 1.713 | 1,269 | 1,959 | 272 | 346 | 469 | 375 | 35 | 596 | 47 |
| Completed elementary school education or less ............. | 255 | 104 | 989 | 155 | 160 | 215 | 186 | * | 398 | 28 |
| Some or completed secondary school education ............. | 961 | 930 | 925 | 115 | 175 | 246 | 179 | 29 | 187 | 18 |
| Some university education or degree.............................. | 497 | 235 | 46 | * | 11 | * | - | - | 10 | - |

[^40]TABIE F 4 Population 20 vears of Age and Over, by Age, Highest Level of fucation ttained and Residence in January 1966 in Relation to Province in which that level was Attained, Canada

| Highw: ivel st duation attained and residune in Janar: : 966 in relation to province in which that level was attained | Age |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 20 \\ \text { and over } \end{gathered}$ | 20-24 | 25-44 | 45-64 | $\begin{aligned} & 65 \\ & \text { and over } \end{aligned}$ |
|  | estimates in thousands |  |  |  |  |
| All levels of education | 10,974 | 1.379 | 4.801 | 3.424 | 1,370 |
| Same province | 7.635 | 1.147 | 3.335 | 2,385 | 767 |
| Dlfferent province | 1,217 | 101 | 567 | 409 | 140 |
| Different country | 1.855 | 82 | 789 | 557 | 427 |
| Not stated | 268 | 49 | 110 | 73 | 36 |
| Elementary | 4,521 | 267 | 1,648 | 1. 714 | 892 |
| Same province | 3.154 | 218 | 1,186 | 1. 229 | 520 |
| Different province | 401 | 17 | 144 | 164 | 77 |
| Different country | 934 | 31 | 308 | 309 | 286 |
| Not stated | 32 | - | 10 | 11 | - |
| Secondary | 5,288 | 871 | 2,606 | 1,413 | 398 |
| Same province | 3,745 | 736 | 1.821 | 978 | 210 |
| Different province | 628 | 63 | 331 | 186 | 47 |
| Different country | 723 | 37 | 371 | 197 | 117 |
| Nut stated | 192 | 35 | 82 | 51 | 24 |
| University | 1.165 | 241 | 547 | 297 | 80 |
| Same province | 736 | 193 | 327 | 178 | 37 |
| Different province | 188 | 22 | 92 | 59 | 16 |
| Different country | 198 | 13 | 110 | 50 | 24 |
| Not stated | 44 | 12 | 18 | 10 | , |

"Excludes persons reporting "no schooiing".

- Estimate of less than 10,000 .

TABLEF F. Population 20 Years of Age and Over, by Level of Education, Region in which that Level was Attained and Residence in January, 1966, Canada

| Level of education and region in which that level was attained | Residence ln 1966 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Atlantic | Quebec | Ontario | Prairie | Britlsh Columbla |
|  | estimates in thousands |  |  |  |  |  |
| Elementary : |  |  |  |  |  |  |
| Atlantic | 1.127 | 907 | 51 | 132 | 18 | 19 |
| Quebec | 2,767 | 12 | 2. 593 | 132 | 15 | 15 |
| Ontario .. | 2,721 | 12 | 87 | 2.513 | 65 | 44 |
| Prairie | 1.723 | * | 18 | 114 | 1.332 | 255 |
| British Columbia | 480 | * | - | 18 | 24 | 434 |
| Secondary: |  |  |  |  |  |  |
| Atiantic | 622 | 476 | 37 | 86 | 12 | 11 |
| Quebec | 1.331 | - | 1.234 | 71 | - | 10 |
| Ontario | 1.859 | 11 | 76 | 1,702 | 42 | 28 |
| Prairie ..................................................................................... | 1,092 | - | 15 | 76 | 853 | 144 |
| British Columbla ................................................................... | 398 | - | - | 17 | 20 | 357 |
| University: |  |  |  |  |  |  |
| Atlantic ................................................................................ | 89 | 64 | - | 13 | - | - |
| Quebec | 244 | - | 215 | 18 | - | * |
| Ontario | 315 | * | 21 | 270 | 12 | 10 |
| Prairie .................................................................................. | 187 | * | - | 15 | 148 | 19 |
| British Columbla .................................................................. | 88 | - | - | - | - | 73 |

- Estimate of less than 10,000 .

TABLE F6. Educational Attainment of Males 20-64 Years of Age, by Fathers' and Mothers' Level of Education, Canada, January, 1966


TABLE F 7. Educational Attainment of Females 20-64 Years of Age, by Fathers ' and Mothers' Level of Education, Canada, January, 1966

| Parent and parent's <br> level of education |
| :--- |

* Estlmate of less than 10,000 .

TABLE F8. Educational Attainment of Males 20-64 Years of Age, by Age and Fathers" Level of Education, Canada, January, 1966


[^41]
## THiLE F 9. Educational Altainment of Males 20-64 Years of Age, by Age and Mnthers' Level of Education, Canada, January, 1966

|  | Males ${ }^{\text {c }}$ level of educatho: |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Unlversity | Secondary | Elementary |
|  | estimates in thousands |  |  |  |
| 20-24 years | 631 | 138 | 359 | 134 |
| University | 31 | 21 | - | - |
| Secondary | 243 | 80 | 148 | 15 |
| Elementary | 357 | 38 | 201 | 118 |
| 25-44 years | 2,094 | 298 | 1.011 | 786 |
| University | 62 | 31 | 25 | * |
| Secondary | 504 | 144 | 301 | 59 |
| Elementary | 1.529 | 123 | 685 | 721 |
| 45-64 years | 1,474 | 143 | 332 | 799 |
| University | 28 | 13 | 12 | - |
| Secondary | 230 | 62 | 126 | 40 |
| Elementary | 1.217 | 66 | 395 | 756 |

- Estimate of less than 10,000 .

TABLE F 10. Educational Attainment of Females 20-64 Years of Age, by Age and Fathers' Level of Education, Canada, January, 1966

|  | Females' level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University | Secondary | Elementary |
|  | estimates in thousands |  |  |  |
| 20-24 years | 638 | 89 | 437 | 112 |
| University | 44 | 20 | 24 | * |
| Secondary | 198 | 40 | 147 | 10 |
| Elementary | 396 | 29 | 265 | 102 |
| 25-44 years | 2,245 | 204 | 1,309 | 732 |
| University | 122 | 46 | 6 B | * |
| Secondary | 488 | 74 | 366 | 48 |
| Elementary | 1.635 | 84 | 875 | 676 |
| 45-64 y y ars | 1,539 | 117 | 664 | 758 |
| University | 77 | 24 | 44 | - |
| Secondary | 232 | 36 | 161 | 36 |
| Elementary | 1.229 | 57 | 459 | 713 |

[^42]TABLEF 11. Educational Attainment of Females 20-64 Years of Age, by Age and Mothers Level of Education, Canada, January, 1966

| Age of females and mothers' level of education |
| :--- |

* Estimate of less than 10,000 .

TABLE F[2. Level of Education of $\mathbb{R}$ espondents 44 Years of ige and Over, by Level of Education of Father and Mother. January, 1966


[^43]TABLE F 13. Educational Attainment of Respondents 14 Years of Ige and Over, by Fathers Level of Education. Canada and Regions, January, 1966

| Region and fathers' level of education | Respondents' education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University ${ }^{1}$ | Secondary ${ }^{1}$ | Elementary ${ }^{\text {s }}$ |
|  | estimates in thousands |  |  |  |
| Canada | 11,884 | 1, 176 | 6, 256 | 4,451 |
| Unlversity <br> Secondary | 685 2.614 | 249 452 | 390 1.894 | 46 268 |
|  | 8,585 | 475 | 3,972 | 4,138 |
| Allantic | 1, 142 | 88 | 555 | 499 |
| Unlversity......... | 38 | 14 | 21 | 32 |
| Secondary <br> Elementary $\qquad$ | 230 875 | $\begin{array}{r}35 \\ 39 \\ \hline\end{array}$ | 162 | 32 464 |
| Quebec | 3,652 | 335 | 1,691 | 1.626 |
| University ................. | 194 | 73 |  | 13 |
| Secondary <br> Elementary | 631 2,826 | 125 137 | 123 1.159 | $\begin{array}{r} 83 \\ 1.529 \end{array}$ |
| Ontario | 4.142 | 407 | 2. 349 | 1. 386 |
| Unlversity..........................................................an..........o................................... | 254 | 92 157 158 | 147 769 |  |
| Secondary <br> Elementary $\qquad$ | 1,004 | 157 158 | 769 1,433 |  |
| Prairie, | 1,951 | 206 | 1,056 | 690 |
| University......................................................................................................... | 108 | 38 | 60 | 10 |
| Secondary ......................................................................................................... | 438 | 73 | 314 | 51 |
| Elementary -............ | 1,406 | 95 | 681 | 629 |
| British Columbia....................................................................................... | 995 | 140 | 605 | 231 |
| Unlversily ......................................................................................................... | 91 | 32 | 53 | - |
| Secondary ........................................................................................................ | 311 | 62 | 225 | 24 |
| Elementary ....................................................................................................... | 594 | 46 | 326 | 222 |

${ }^{1}$ See footnote : Table F 12.

- Estimate of less than 10,000.

TABI.F. F14. Educational Attainment of Respondents 14 Years of Age and Over, by Mothers Level of Fducation, Canada and Regions, January, 1966

| Region and mothers' level of education | Respondents' education |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | University ${ }^{2}$ | Secondary ${ }^{1}$ | Elementary ${ }^{2}$ |
|  | estimates in thousands |  |  |  |
| Canada .. | 11.927 | 1. 177 | 6, 287 | 4,462 |
| University $\qquad$ <br> Secondary $\qquad$ <br> Elementary. | 384 3.190 8.353 | 156 571 450 | 204 3,284 3,799 |  |
| Elementaty....................................................................................................... |  |  | 3, 799 | 4. 103 |
| Auantic | 1, 149 | 89 | 559 | 501 |
| University. <br> Secondary <br> Elementary $\qquad$ | 37 308 804 | 14 46 29 | 20 215 323 | $\begin{array}{r} 47 \\ 451 \end{array}$ |
| Quebec. | 3,656 | 334 | 1,695 | 1,625 |
| University................................................................................................ | 65 | 31 | 30 |  |
| Secondary |  | 160 144 |  | 102 1.520 |
| Ontario | 4, 155 | 408 | 2,359 | 1,388 |
|  | 1. 1316 | 57 203 | 71 915 | - 98 |
|  | 2, 804 | 148 | 1,372 | 1,283 |
| Prairie | I. 965 | 207 | 1,063 | 695 |
|  | 85 545 | 30 93 | 48 390 | - 62 |
|  |  |  | 390 624 | 62 626 |
| British Columbia | 1,002 | 139 | 612 | 251 |
| Universilty. <br> Secondary. | 61 359 | 25 69 | $\begin{array}{r}34 \\ 264 \\ \hline 84\end{array}$ | - 27 |
| Elementary........... | 582 |  |  | 222 |

[^44]


[^0]:    - Based on estimate of less than 10,000 .
    - Represents zero or rounds to zero.

    Source: Current Populaelon Reports, - "Population Charecteristics". Series P. 20, No 158, P. T, Table t, U.S. Dept. of Commerce.

[^1]:    ${ }^{1}$ In this Study, a migrant is defined as a person who obtained a given level of education in one region and who was living in another region at the time of the Survey (January 1966). See the section on Migration, Immigration and Education"

[^2]:    ${ }^{2}$ See Dominion Bureau of Statistics, Special Labour Force Study No. 1. Educational ittainment of the Canadian Population and l.abour Foree: 1960-65, by F. J. Whittingham, Ottawa. 1966.

[^3]:    ${ }^{3}$ Some persons 25 years of age and over are still full-time students. These include for example, persons enmlled in graduate school or professional courses.

[^4]:    ${ }^{4}$ Dominion Bureau of Statistics, op. cit. pp. 79.
    ${ }^{5}$ See Ennomic Council of Canada, Touards sustained amd Balanced Economic Crometh, Second Annual Review (Ottawa: Queen's Printer, 1965). pp. 117-120.

[^5]:    *Based on estimate of less than 10,000 .

[^6]:    6 It will be noted that comparisons of the educational attainment of persons in different age groups can be viewed as comparisons of the output of the educational system over time. Persons in the 45-64 age group in 1966, for example, were in the 25-44 age group in 1946. The educational attainment of these persons indicates what the level of education of persons 25-44 $y$ ears of age was twenty years ago. This level can then be compared to that achieved by persons who are in the 25-44 age group in 1966. Such comparisons must be regarded with caution since thes are only crude indicators of educational attainment in different periods of time. In each region the number of persons in the 25-44 age group in 1946 has been reduced by mortality, emigration and interregional outmigration. Immigration and interregional in-migration have increased each region's population. The data presented for each region in Table 2 are the product of the level of education attained by persons educated in that region and of these factors. It must also be noted that a given level of education received more than 30 years ago, for example, would be vastly different in content from the same level of education obtained more recently.

[^7]:    ${ }^{7}$ Dominion Bureau of Statistics, Special Labour Force Study No. 3, The Jab Content of the Canadian Economy 1941, 1951 and 1961, by J. G. Scoville, Ottawa, 1967.

[^8]:    ${ }^{1}$ Excludes some unemployed persons who have never worked.

[^9]:    - See, for example, Dominion Bureau of Statistics, Special Labour Force Study No. 4, Geographic Mobility in Canada: Octuber 1961 - Uctober 1965, by M. Nickson. Ottawa. 1967.

[^10]:    ${ }^{9}$ It will be remembered that this figure includes native-born Canadians who have studied in other countries and returned to Canada.

[^11]:    ${ }^{10}$ If persons in the "same province" and "different province" categories are considered separately, the proportion of persons not living in the province in which they attained the highest level of their education is still not strongly associated with age. The proportion rises from about 8 per cent in the $20-24$ age group to approximately 15 per cent in the higher age groups. Thus the decline, in the higher age groups, of the proportion of persons in the '"same province"' category is almost, entirely offset by the increase in the "different country" category.

[^12]:    ${ }^{11}$ This section of the Study is concerned with the pattern of movement of persons who obtained a given level of education in a specified region regardless of whether they subsequently obtained a higher level of education. Thus the numher of persons who attended elementary school includes those who obtained a secondary school or university education as well as those who went no further than the elementary level. Simllarly, the number of persons who attended a secondary school includes those who wetot to university.

[^13]:    ${ }^{1}$ A migrant is defined as a person who obtained a given level of education in one region and who was living in another region at the time of the Survey (January, 1966).
    ${ }^{2}$ An immigrant is defined as a person who obtained a given level of education in another country and who was living in Canada in January, 1966. Under this definition, Canadians who have studied abroad and returned to Canada are considered as immigrants.
    ${ }^{3}$ These changes do not take emigration into account since comparable data are not available.

    - Estimate of less than 10,000 .

[^14]:    ${ }^{12}$ Since comparable data on emigration are not available, the magnitude of the outflow of persons from Canada for each region is not known. It is therefore understood that the net outflow from a region consists of the difference between the number of persons who have migrated from that region to other regions in Canada and the number who have migrated to that region from other regions and other countries.

[^15]:    ${ }^{13}$ It will be remembered that the "net change" in population has not occurred over a given period of time. The time period will vary from one respondent to another, depending on when he or she attained a given level of education.

[^16]:    ${ }^{14}$ However, see Yues de Jocas and Guy Rocner, "Inter-Generation Occupational Mobility in the Province of Quebec" Cunadian Journal of Ecomomics and Prlitical Science, XXIII (February 1957), pp, 57-68. For American data on this subject, see United States Department of Commerce. Bureau of the Census, "Educational Change in a Generation, March, 1962" Current Population Reports, Series P-20 No, I32 (U.S. Government Printing Office, 1964). Swift and Weisbroad have developed a method for placing monetary values on these intergeneration effects. They show that the education of a person not only pays direct returns to him but tends to increase future investment in education by his children. See William J. Swift and Burton A. Weisbroad, "On the Monetary Value of Educations's Intergeneration Effects", The Journal of Political Economy, LXXIII (December, 1965), pp. 643-49.
    ${ }^{15}$ Dominion Bureau of Statistics, 1961 Census of Canada, Bulletin 7.1-10, Table XI. pp. 10-19.
    ${ }^{16}$ For a fuller discussion of the terminology and methodology used in this section, see P. M. Blau and O. D. Duncan. The American Octupational Structure, (New York: John Wiley and Sons, Inc., 1967), pp. 23-80.

[^17]:    ${ }^{17}$ It should be noted that indexes of association abstract not only from changes in the distribution of the total population among the various education categories but also from the influence of demographic factors. Assuming a constant distribution by education of the population over two generations, differential fertility may be equivalent to an increase in available opportunities for part of that population. For example, if the fathers with a higher level of education have fewer sons than those with less education, a constant distribution in the sons' generation would require that sons of poorly educated fathers move to the higher level as a result of different replacement, even if every sonofthe universits-trained fathers maintained his parental status. Thus if the total distribution of education opportunities is independent of differential fertility, the greater the differential the greater the likelihood that suns of poorly educated fathers will obtain a higher level of education. What would appear to be an increase in the proportion of persons with higher education would actuaily be a dif.ference in net replacement rates of various categories of fathers. (C., D. V. Glass, ed., Social Mohility in Britain (London: Routledge \& Kegan Paul Ltd., 1954), pp. 196-198.

    Another effect of differential fertility is that it affects the likelihood that a father will be represented in the sample upon which this Survey was based. Thus the greater the number of children the greater the chance that at least one child will be included in the sample. Since two or more sons or daughters in the sample may be referring to the same father, the category to which the father belongs will be over-represented. This difficulty has not been allowed for in the design of the Survey but should be kept in mind when interpreting the results regarding the characteristics of the fathers. Since most of the inferences in this Survey have been made about the sons and daughters and not about their parents, this problem would not significantly affect the conclusions. (F'or an analysis of differential fertility viewed as a consequence of mobility, see Blau and Duncan, ap. cit., pp. 361-399.)

[^18]:    ${ }^{18}$ The term "educational inhertance" is borrowed from the literature on occupational mobility between generations. It refers to the proportion of sons of daughters whose fathers (Or mothers) are in a given education category and who are in that same category themselves. "Self recruitment", used later in the text, refers to that proportion of sons (or daughters) in a given category whose fathers (or mothers) are in that same category. See "Lifetime Occupational Mobility of Adult Males, March $1962^{\prime \prime}$, Current Population Reports, Technical Studies, Series P-23, No. 11, (Washington: U. S. Government Printing Office, 1964).

[^19]:    ${ }^{19}$ It will be remembered that upward mobility is indicated by values to the left of the diagonal and downward mobility by values to the right.

[^20]:    * Based on estimate of less than 10,000 .

[^21]:    - Based on estimate of less than 10,000 .

[^22]:    * Based on estimate of less than 10,000 .

[^23]:    * Based on estimate of less than 10,000 .

[^24]:    * Based on estimate of less than 10,000 .

[^25]:    * Based on estimate of less than 10,000 .

[^26]:    - Based on estimate of less than 10,000 .

[^27]:    * Based on estimate of less than 10,000 .

[^28]:    - Based on estimate of less than 10,000 .

[^29]:    - Based on estimate of less than 10,000 .

[^30]:    ${ }^{21}$ For a comprehensive description of the design of the Monthly Labour Force Survey, see Dominion Bureau of Statistics. Canadian Labour Force Survey-Methodology, Catalogue No. 71-504, Ottawa, 1965.

[^31]:    ${ }^{22}$ For a summary of differences between secondary school systems, see W. M. Illing and Z. E. Zsigmond, Enrolment in Schools and Universities, 1951-52 to 107576, Staff Study No. 20 (Economlc Council of Canada, 1967) pp. 23-24.

[^32]:    * Estimate less than 10,000 .

[^33]:    Estimate of less than 10,000 .

[^34]:    - Based on estimate of less than 10,000
    - Represents zero or rounds to zero.

    Source: Current Population Reports, - "Population Characterlstics", Series P. 20, No 158, P. 7, Table 1, U.S. Dept. of Commerce.

[^35]:    - Estimate of less than 10,000 .

[^36]:    - Based on estimate of less than 10,000 .

[^37]:    - Estimate of less than 10,000.

[^38]:    * Estimate of less than 10,000 .

[^39]:    - Based on estimate of less than 10,000 .

[^40]:    :Includes persons in managerial, professional and technical, clerical and sales occupations.
    ${ }^{2}$ Includes craftsmen. production process and related workers and labourers not elsewhere specefied categories.
    , Includes farmers and farm workers, loggers and related workers, fishermen, trappers and hunters, miners, quarrymen and pelated workers.

    - Estimate of less than 10,000.

[^41]:    - Estimate of less than 10,000 .

[^42]:    - Estimate of less than 10,000 .

[^43]:    In this table, "university" refers to "some university education or degree", "secondary", te "some or completed secondary school education" and "elementary", to "completed elementary school education or less".

    * Estimate of less than 10,000 .

[^44]:    ${ }^{1}$ See footnote ${ }^{1}$, Table F 12.

    - Estimate of less than 10,000 .

