# EDUCATION INDICATORS - 2007 edition



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Ministère de l'Éducation, du Loisir et du Sport Secteur de l'information, des communications et de l'administration

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### **Table of Contents**

		Page
Tal	ble of Indicators	4
Int	troduction	9
Qu	ébec's Education System: An Overview	15
1	Financial Resources Allocated to Education	18
2	Activities	52
3	Results – Educational Outcomes	74
4	<b>Results</b> – Evaluation of Learning	90
5	Results – Graduation	98
6	The Labour Market	112
Sta Tal	atistical Appendix bles on Enrollment, Personnel, Diplomas and Schooling Rates	123

### **Table of Indicators**

	Financial Resources Allocated	Activities	Results
	to Education		Educational Outcomes
Education System and Social Context	<ol> <li>Government Spending on Education, Recreation and Sports in Québec p. 18</li> <li>Total Educational Spending in Relation to the GDP p. 20</li> <li>Total Educational Spending Per Capita in School Boards, Colleges and Universities p. 22</li> <li>Total Educational Spending per Student in Relation to Per Capita GDP p. 24</li> <li>Cost of Educating Graduates p. 26</li> </ol>	2.1 School Life Expectancy p. 52 2.2 Enrollment in Preschool Education p. 54	
Elementary and Secondary Education	1.6       Total School Board Spending in Relation to the GDP       p. 28         1.7       Total School Board Spending in Current and Constant Dollars       p. 30         1.8       Total School Board Spending per Student       p. 32         1.9       Student-Teacher Ratio in School Boards       p. 34         1.10       Average Salary of Teachers in School Boards       p. 36	<ul> <li>2.3 Enrollment in Secondary General Education-Youth Sector p. 56</li> <li>2.4 Enrollment in Secondary Vocational Training-Youth and Adult Sectors p. 58</li> <li>2.5 Enrollment in Secondary General Education-Adult Sector p. 60</li> <li>2.6 Dropping Out of Secondary School p. 62</li> <li>2.7 Academic Delay in Elementary and Secondary School-Youth Sector p. 64</li> </ul>	<ul> <li>3.1 Success in Secondary Cycle Two of General Education–Adult Sector p. 74</li> <li>3.2 Success in Secondary Vocational Training p. 76</li> </ul>
College	<ul> <li>1.11 CEGEP Operating Expenses p. 38</li> <li>1.12 Student-Teacher Ratio, Average Teacher Salary and Cost of Teachers per Student in CEGEPs p. 40</li> </ul>	<ul> <li>2.8 College Enrollment– Regular Education p. 66</li> <li>2.9 Immediate Transition From College to University p. 68</li> </ul>	<ul> <li>3.3 Success in Pre-University Programs in Regular College Education p. 78</li> <li>3.4 Success in Technical Programs in Regular College Education p. 80</li> <li>3.5 Duration of Studies in Regular College Education p. 82</li> </ul>

## Table of Indicators (cont.)

	Res	The Labour Market	
	Evaluation of Learning	Graduation	
Education System and Social Context		5.1 Highest Diploma or Degree Earnedp. 98	<ul> <li>6.1 Changes in Educational Attainment in the Labour Force p. 112</li> <li>6.2 Labour Force Participation by Level of Education p. 114</li> <li>6.3 Labour Market Integration of Graduates p. 116</li> </ul>
Elementary and Secondary Education	<ul> <li>4.1 Secondary School Examination Results, by Several Variables– Youth Sector p. 90</li> <li>4.2 Regional Disparities in Secondary School Examination Results–Youth Sector p. 92</li> <li>4.3 Secondary V French, Language of Instruction, Examination–Youth Sector p. 94</li> </ul>	<ul> <li>5.2 Graduation From Secondary School–Youth and Adult Sectors p. 100</li> <li>5.3 Graduation From Secondary Vocational Training–Youth and Adult Sectors p. 102</li> <li>5.4 Graduation From Secondary School in Québec and OECD Countries, 2004 p. 104</li> </ul>	6.4 Labour Market Integration of Secondary Vocational Training Graduates p. 118
College	4.4 Ministerial Examination of College Frenchp. 96	5.5 Graduation From College p. 106	6.5 Labour Market Integration of Graduates of College Technical Programs p. 120

## Table of Indicators (cont.)

	Financial Resources Allocated	Activities	Results
	to Education		Educational Outcomes
University	1.13 Total University Spending in Relation to the GDP	2.10 University Enrollmentp. 70 2.11 Training of Researchersp. 72	<ul> <li>3.6 Success and Duration of Studies in Bachelor's Programs</li></ul>

## Table of Indicators (cont.)

	Res	The Labour Market	
	Evaluation of Learning Graduation		
University		<ul> <li>5.6 Graduation From University p. 108</li> <li>5.7 University Degrees by Field of Study p. 110</li> </ul>	

### Introduction

This edition of the *Education Indicators* deals with all levels of education, from kindergarten to university. Some indicators cover the education system as a whole, whereas others focus on a specific level.

The purpose of publishing indicators is to ensure accountability by providing specific information on the resources allocated to education, the various activities pursued by the education system and the results obtained. The indicators are presented under a series of headings classifying recent and historical data that helps trace these developments over time.

The development of education indicators in Québec is part of a larger movement. The Council of Ministers of Education, Canada (CMEC) has undertaken projects to develop indicators for Canada's provinces; the Organisation for Economic Co-operation and Development (OECD) has done the same for its member countries, and the United Nations Educational, Scientific and Cultural Organization (UNESCO) has also published a series of indicators on education throughout the world. Québec has been an active participant in this worldwide movement, having published the first edition of the *Education Indicators* in 1986.

Examination of the indicators in this publication reveals a number of trends and developments that characterize Québec's education system. Some are explained briefly below. Additional information on these topics and others can be found further on in this booklet.

#### **Financial Resources Allocated to Education**

In 2005-2006, Québec's total educational spending was estimated at 7.5% of the gross domestic product (GDP). The share of the GDP allocated to education in the rest of Canada was estimated at 6.3%, and in the United States, at 7.6%.

Total school board spending amounted to \$1 227 per capita in 2004-2005, or 13.4% less than the average for the rest of Canada (\$1 417). However, total per capita spending was higher in Québec's postsecondary institutions: \$270 and \$668 respectively, compared with \$208 and \$623 in the rest of Canada. In Québec, the provincial government provides a large part of the funds for total spending (almost 70%), whereas elsewhere in Canada, this proportion is much lower (slightly over 50%). In recent years, the Québec government has devoted a quarter of its program spending to education.

Another indicator that is often used to compare Québec with neighbouring regions is total per-student spending. In 2003-2004, total per-student spending in Québec school boards (\$8465) was slightly higher than in the rest of Canada (\$8457), despite the fact that educators' salaries in Québec (\$51960) were considerably lower than the average for the other provinces (\$64281). This can be explained in large part by the fact that the student-educator ratio is lower in Québec (14.1) than in the rest of Canada (16.6). This gap of 2.5 percentage points between the two ratios has had a major impact on the salary cost of educators. Per-student operating expenses in CEGEPs were estimated at \$8984 in 2005-2006, 34% higher than in 1998-1999. This major increase can be explained in large part by the decline in the student-teacher ratio, which went from 13.8 in 1998-1999 to 12.6 in 2005-2006. In addition, total perstudent spending in Québec universities was estimated at \$26951 in 2005-2006, 10.8% more than the average for the rest of Canada. The average salary of full-time university professors in Québec was lower than in the rest of Canada (\$90609, compared with \$93921 in 2004-2005), but this is partially offset by the lower average number of students per professor in Québec.

In 2005-2006, 132351 persons benefited from Québec's Loans and Bursaries Program. Of the financial assistance granted, 61.2% was in the form of loans and 38.8%, in the form of bursaries. Tuition fees in 2006-2007 averaged \$1916 in Québec for full-time undergraduate studies (\$1668 for Québec residents), compared with \$5046 in the rest of Canada.

## Student Retention From Elementary School to University

Student retention in Québec's education system for 2005-2006 is illustrated on the following page. The diagram represents the proportions of a cohort of young people who could expect to enroll and to obtain a diploma or degree in each level of education. The diagram shows that, in a generation of 100 persons, 100 could be expected to reach the secondary level and 86 to obtain a first secondary school diploma, 40 to obtain a Diploma of College Studies (DCS), 30 to earn a bachelor's degree, 9 to be awarded a master's degree, and 1 to obtain a doctorate. Of the 86 students to

obtain a secondary school diploma, 32 would do so in vocational training. However, the educational playing field was far from level for the sexes in 2005-2006: more male students than female students (21% compared with 8%) left their studies before earning a diploma or degree. At the other extreme, in 2005, 38% of women obtained at least a bachelor's degree, compared with only 23% of men.

Objectives for the educational success of a greater number of Quebeckers have been set: to have 85% of the students in a generation earn a secondary school diploma before the age of 20; 60%, a DCS; and 30%, a bachelor's degree.

Children who began elementary school in 2005-2006 can expect to be in school for 15.6 years (assuming that the success rates and retention rates prevailing in the education system in 2004-2005 do not change). Secondary school graduates will have been in school for 11.2 years, at an estimated cost of \$106 600 in 2004-2005; those obtaining a bachelor's degree will have studie for 17.2 years, at an estimated total cost of \$212 748.

## Student Retention of 100 Quebeckers in the Education System, Based on Findings for 2005-2006



<sup>(</sup>a) This figure includes 10 general education graduates likely to obtain another diploma in vocational training.

<sup>(</sup>b) All diplomas earned in the youth sector are included, regardless of the age of the graduates.

<sup>(</sup>c) The most recent year for which data is available is 2004-2005.

<sup>(</sup>d) Students who enroll in university are not limited to those who hold a DCS.

<sup>(</sup>e) The most recent yaer for which data is available is 2005.

### Staying in School and Obtaining a Diploma

The dropout issue is a major concern among educators. Numerous approaches have shed light on this phenomenon. Educational success, defined here as obtaining a diploma, is measured differently for each level and sector of education. The proportion of 19-year-olds who left school without a secondary school diploma was 19.7% in 2005.

The proportion of students in other education sectors who obtained diplomas or degrees and the proportion who left school either temporarily or permanently were determined by observing the number of students who leave school each year. Thus, of the students in Secondary Cycle Two in the adult sector who guit their studies before the age of 20. 62.1% did so with a diploma. In secondary vocational training, of 100 students of all ages who were enrolled in programs leading to a Diploma of Vocational Studies (DVS) (known as the Secondary School Vocational Diploma [SSVD] prior to 1998) and who left secondary school, 73 did so with a diploma. At the college level, 72% of students in preuniversity programs leading to a DCS obtained a diploma; in technical training, 62% of students obtained a DCS. At the university level, 68% of students leaving bachelor's programs did so with a degree. Of the students enrolled in master's and doctoral programs, 71% and 57%, respectively, earned their degree.

#### **Evaluation of Learning**

In the subjects for which uniform examinations were administered for the certification of studies by the Ministère de l'Éducation, du Loisir et du Sport in June 2006, students in Secondary IV and V obtained an average mark of 72.6% and had a success rate of 83.2%. The male students' average was 72.0% and the female students', 73.2%. Students obtained an average final mark of 71.6% on the examination in Secondary V French, language of instruction, and 86.6% passed. In 2005-2006, 81.1%. of college students passed the ministerial examination of college French, language of instruction.

### What Becomes of Graduates

When they finish school, graduates from secondary school, college and university have to make choices. Some decide to continue their education, while others set their sights on the labour market. In 2004-2005, at the end of their college studies, 77.9% of pre-university program graduates under the age of 25 went on to university the following year, compared with 25.0% of graduates from technical programs.

The unemployment rate in March 2006 was 10.8% and 9.8%, respectively, for graduates with a DVS or AVS, and 4.5% for graduates of college technical programs. Since 1990, the profile of the labour force in Québec has changed significantly. In 2006, the increase in the number of jobs was more beneficial to those who graduated from postsecondary or university studies. During the same period, the number of employed people who did not have a secondary school diploma dropped by 39.9%.

\*\*\*\*\*\*

Readers seeking a more in-depth analysis or an up-to-date picture of the situation should consult the individual sections in the pages that follow. The Ministère de l'Éducation, du Loisir et du Sport and the Conseil supérieur de l'éducation also produce and publish specialized studies on these topics. Finally, general information on the education system is available in the following publications:

- Basic Statistics on Education
- Education Statistics Bulletins
- Student Flow from Secondary School to University
- Annual management report of the Ministère de l'Éducation, du Loisir et du Sport
- Annual Report on the State and Needs of Education, published by the Conseil supérieur de l'éducation
- 2005-2008 Strategic Plan of the Ministère de l'Éducation, du Loisir et du Sport

This information is also available on the Web site of the Ministère de l'Éducation, du Loisir et du Sport, at <www.mels.gouv.qc.ca>.

### **Québec's Education System: An Overview**

Québec's education system offers a wide range of educational programs and services from kindergarten to university.

### Preschool, Elementary and Secondary Education

Elementary school normally lasts six years; secondary school, five. Children are admitted to the first year of elementary school in the school year in which they will have turned 6 years of age by October 1. Kindergarten is not compulsory, but, as of the fall of 1997, almost all 5-year-olds attend full-time. Four-year-olds with handicaps or living in low-income areas may be admitted to preschool. School attendance is compulsory until the year in which students turn 16 years of age, which normally corresponds to Secondary IV.

Elementary education is offered in French, English or a Native language, and secondary education, in French or English. Students deemed eligible to study in English are chiefly those whose father or mother attended English elementary school in Canada. Public elementary and secondary education is provided by school boards. The school boards are managed by school commissioners, who are elected by residents in the territory under the school board's jurisdiction. The school boards hire the staff they need to provide educational services. In 2005-2006, the Québec government funded 76% of school board operating expenses, while local taxes accounted for 15% of school board revenues, and other sources provided the remaining 9%.

In July 1998, the number of school boards was reduced to 72, and they were organized along linguistic lines, except for three with special status. There are 60 French school boards and 9 English school boards, with enrollments ranging from 725 to 72 000, for a median size of approximately 8 700 students. The special-status school boards serve French-speaking and English-speaking students in the Côte-Nord region (Commission scolaire du Littoral) and Native students in the Nord-du-Québec region (Cree School Board and Kativik School Board).

Elementary and secondary education is also provided by private institutions, some of which are subsidized by the Ministère de l'Éducation, du Loisir et du Sport. The private school system accounts for 6% of elementary students and approximately 18% of secondary students in the youth sector. About half of the operating expenses of subsidized private institutions are funded by the Québec government. Elementary and secondary education is also offered by some public institutions that are not part of the school board system but that fall under Québec or federal government jurisdiction; these institutions account for 0.1% of students.

Secondary school diplomas are awarded by the Minister of Education, Recreation and Sports to students who fulfill the certification requirements set by the Minister. A Secondary School Diploma (SSD) is required for admission to college.<sup>1</sup> A Diploma of Vocational Studies (DVS) (known as the Secondary School Vocational Diploma [SSVD] prior to 1998) generally leads to the labour market, but also allows admission to college. The harmonization of educational services offered in the youth sector and the adult sector is a feature of Québec's education system. Adult education leads to secondary school diplomas that are the same as or equivalent to those offered in the youth sector.

### **College Education**

Students may enroll in college programs leading to a Diploma of College Studies (DCS) or in short technical programs leading to an Attestation of College Studies (ACS). College education theoretically consists of a two-year program for students enrolled in pre-university education or a three-year program for those in technical training; technical programs aim primarily at entry into the labour market, but also allow admission to certain disciplines in university.

Students may pursue their college studies in the language of instruction of their choice. Public college education is provided by CEGEPs (a French acronym that stands for general and technical college). CEGEPs are administered by boards of directors composed of representatives of the socioeconomic community appointed by the Minister, as well as representatives of parents, students, teachers, nonteaching professionals and support staff, a director-general and a director of studies. In 2005-2006, the Québec government funded 87% of CEGEP operating expenses. Private educational institutions served 7% of college students, and 56% of their expenses were funded by the government. College education is also available at a few institutions associated with ministries other than the Ministère de l'Éducation, du Loisir et du Sport and by the Macdonald Campus of McGill University.

A DCS is awarded to a student by the Minister of Education, Recreation and Sports following the recommendation of the institution attended. For shorter programs, other types of certification are awarded.

### **University Education**

Québec has English and French universities; students are free to attend the university of their choice. University education is divided into three levels of studies. The first leads to a bachelor's degree (generally after three years or, less frequently, four years in certain programs), the second to a master's degree, and the third to a doctoral degree. Universities also award certificates, diplomas and other forms of attestation to certify the successful completion of short programs. In 2005-2006, 54% of university expenses were subsidized by the Québec government.

<sup>1.</sup> Since the fall of 1997, students who earned a Secondary School Diploma (SSD) or a Diploma of Vocational Studies (DVS) after May 31, 1997, must also have accumulated the required number of credits for Secondary IV history and physical science, Secondary V language of instruction and second language, and Secondary V mathematics or a comparable Secondary IV mathematics course determined by the Minister. In the case of certain programs leading to a DCS determined by the Minister system studies with a DVS may be admitted to college in order to pursue their studies without interruption. Finally, the Minister sets specific secondary level prerequisites for some programs leading to a DCS.

### Ministère de l'Éducation, du Loisir et du Sport

The Ministère de l'Éducation, du Loisir et du Sport fulfills different functions for the various levels of education. For preschool, elementary, secondary and college education, the Ministère develops programs and determines objectives and often content or standards. In terms of labour relations, it negotiates and signs provincial agreements. In terms of financing, it establishes a standard framework and provides the largest share of resources. At the university level, it promotes the advancement of teaching and research by providing universities with the resources required for operation and development while respecting their autonomy and fostering collaboration among the various partners.

### 1.1 Government Spending on Education, Recreation and Sports in Québec

Spending on education, recreation and sports in Québec was sestimated at \$12.8 billion in 2006-2007, accounting for 25.2% of government program spending.<sup>1</sup>

Québec government program spending rose from \$43.9 billion to \$50.9 billion between 2002-2003 and 2006-2007, an increase of \$7.0 billion.

Table 1.1 presents Québec government program spending in the four major sectors: Education, Recreation and Sports; Health and Social Services; Employment and Social Solidarity; and Families, Seniors and the Status of Women. Spending on other portfolios and programs are grouped together under "Other Portfolios." The table makes it possible to compare changes in the portion of government spending allocated to education, recreation and sports with those in the other major sectors.

A comparison of program spending in the major sectors during the period considered reveals significant changes in the portion of spending allocated to each sector. The portion allocated to health and social services increased from 35.6% in 1992-1993 to 43.5% in 2006-2007, while the portion allocated to families, seniors and the status of women rose from 0.9% to 3.4% during the same period.

The portion of spending allocated to employment and social solidarity rose during the 1990s, then decreased to settle at 7.9% in 2006-2007. Education, recreation and sports and other portfolios also saw a decrease in the portion of program spending allocated to them. Between 1992 and 1998, the portion of government program spending allocated to education, recreation and sports dropped 3.3 percentage points, from 29.2% to 25.9%. This decrease was in large part due to budget cuts and strict cost-cutting measures in educational institutions.

The portion of program spending allocated to education, recreation and sports varied only slightly between 1998 and 2006, and was 25.2% in 2006-2007. While this proportion is slightly lower than that observed in 1998-1999 (25.9%), it is important to note that the actual amount of financial resources allocated to education, recreation and sports in 2006-2007 (25.2%) was \$12.8 billion, or \$3.2 billion more than in 1998-1999 (a 33% increase).

The \$3.2-billion increase in spending in education, recreation and sports since 1998 can be partly explained by additional spending in education, agreements between the Québec government and the unions concerning the gradual restructuring of salary scales for school personnel (pay equity) and the numerous support measures for educational institutions.<sup>2</sup> Note that the considerable increase in university enrollments during this period contributed significantly to the increase in spending in education.

Government spending on education, recreation and sports in Québec was estimated at \$12.8 billion in 2006-2007, \$1.6 billion more than in 2002-2003.

<sup>1.</sup> The amount allocated to the development of recreation and sports was \$67 million in 2006-2007.

<sup>2.</sup> See Sections 1.7 and 1.11.

### Table 1.1

Graph 1.1 Distribution of

by sector (%)

Québec government program spending, by sector<sup>1</sup> (%)

	1992- 1993	1995- 1996	1998- 1999	2001- 2002	2004- 2005	2006- 2007ª
Education, recreation and sports	29.2	29.1	25.9	25.4	24.7	25.2
Health and social services	35.6	36.1	39.3	40.9	42.1	43.5
Employment and social solida	rity 10.2	11.1	11.2	9.7	8.6	7.9
Families, seniors and the status of women	0.9	1.2	1.6	2.7	3.2	3.4
Other portfolios	24.1	22.5	22.0	21.3	21.4	20.0
Program spending	100.0	100.0	100.0	100.0	100.0	100.0

e: Estimates

1. Data related to program spending is presented according to the 2006-2007 budgetary structure.



### 1.2 Total Educational Spending in Relation to the GDP

In 2005-2006, Québec allocated 7.5% of its gross domestic product (GDP) to education,<sup>1</sup> compared with the Atlantic Provinces at 7.6%, Ontario at 6.3% and Western Canada at 6.0%. The United States spent 7.6% of its GDP on education. When this indicator is considered, it is evident that Québec educational spending remains higher than the average for the other provinces, while it is almost equivalent to that of the United States.

Between 1993 and 2000, the share of the GDP spent on education decreased in all regions of Canada, in particular because of budget cuts. In Québec it dropped from 8.9% to 7.7%, and in the rest of Canada, from 7.6% to 6.3%. In the United States, however, it increased slightly and stood at 7.5% in 2000-2001.

If the share of the GDP allocated to education in Québec is compared with that allocated by the member countries of the Organisation for Economic Co-operation and Development (OECD) in 2003, Québec is among those with the highest educational spending. This is primarily because teaching costs are relatively higher in Québec than the OECD average. The fact that postsecondary education is more developed in Québec than in the OECD countries also helps explain Québec's higher level of educational spending.<sup>2</sup>

To explain why Québec invested a greater share of its GDP in education than the rest of Canada in 2005-2006, the following four factors can be considered: per-student spending; collective wealth (defined by the per capita GDP); the school attendance rate (the ratio of total school enrollment to the population between 5 and 24 years old); and the demographic factor (the ratio of the 5-24 age group to the total population). Three of these factors help explain why Québec invests a greater share of its GDP in education: per-student spending, which is higher in Québec than in the rest of Canada; the slightly higher school attendance rate in Québec; and Québec's lesser collective wealth. Only the demographic factor (older population in Québec) had the opposite effect.

The higher per-student spending in Québec is due mainly to lower student-teacher ratios at every level of education and to greater capital expenses and financing costs, university research, and school childcare services and transportation. There is also an important point to be made about the difference between perstudent spending in Québec and in the rest of Canada; it concerns differences in the cost of living. The cost of living is lower in Québec than in the rest of Canada (about 10% lower in 2005-2006) and, if expenses are adjusted to take this into account, the difference is even more marked.

In 2005-2006, the share of the GDP allocated to education was higher in Québec than in the rest of Canada. However, compared with the situation that prevailed in the early 1980s, the gap has narrowed.

In 2005-2006, Québec spent \$20.7 billion of its \$274.9-billion GDP on education. The concept of total spending used in this section is defined at the bottom of Table 1.2. This concept is more inclusive than the one used in Section 1.1, which takes into account only government spending.

<sup>2.</sup> See Marius Demers, "Educational Spending Relative to the GDP in 2001. A comparison of Québec and the OECD Countries," Education Statistics Bulletin 31 (Québec: Ministère de l'Éducation, du Loisir et du Sport, Direction de la recherche, des statistiques et des indicateurs), September 2005. This document is available on the Internet at <a href="http://www.mels.gouv.qc.ca/stat/index.htm">http://www.mels.gouv.qc.ca/stat/index.htm</a>. An update to 2003 is available.

### Table 1.2

Total educational spending<sup>1</sup> in relation to the GDP: Québec, other regions of Canada, and the United States (%)

	1981- 1982	1989- 1990	1993- 1994	2000- 2001	2004- 2005⁰	2005- 2006°
Québec	9.3	7.3	8.9	7.7	7.6	7.5
Canada, excluding Québec	6.5	6.7	7.6	6.3	6.5	6.3
Atlantic Provinces Ontario Western Canada	10.5 6.5 5.7	9.3 6.2 6.6	9.8 7.4 7.1	8.2 5.8 6.5	7.9 6.2 6.5	7.6 6.3 6.0
Canada	7.1	6.8	7.9	6.6	6.7	6.5
United States	6.3	7.0	7.2	7.5	7.8	7.6

e: Estimates

 Total educational spending includes the operating and capital expenses of all levels of public and private education, the Ministère's administrative expenses, government contributions to employee pension plans, the cost of student financial assistance and other education expenses (as defined by Statistics Canada).



### **1.3** Total Educational Spending<sup>1</sup> Per Capita in School Boards, Colleges and Universities

In 2004-2005, total spending per capita was lower in Québec school boards (\$1227) than in the rest of Canada (\$1417), but higher in Québec colleges (\$270) than in the rest of Canada (\$208). It was also higher in Québec universities (\$668 compared with \$623).

Table 1.3a shows the data on total spending per capita by level of education in 2004-2005. The differences in total per capita spending observed between regions for a given level of education are explained in part by the organizational differences between the education systems. Thus, the fact that total per capita spending in Québec school boards is lower than in the rest of Canada (with the exception of the Atlantic Provinces), is explained in part by the shorter duration of studies in Québec (11 years in Québec and normally 12 years in the rest of Canada). Conversely, total spending per capita at the college level is higher in Québec than in the rest of Canada, because of the unique characteristics of our college network (including the mandatory two years of college before entering university).<sup>2</sup>

Table 1.3b shows data on the direct sources of funds for total educational spending in 2002-2003 (the most recent data available). These figures indicate that, in Québec, provincial subsidies make up a large part of the financing for education (68.8%). This percentage is higher than in the Atlantic Provinces (66.7%), Ontario (49.5%) and Western Canada (54.3%).

In the other provinces, financing sources other than the government play a larger role for one or more of the following reasons: local funding is more significant, tuition fees are higher, or the educational institutions in the other regions are in a better position to obtain other sources of funding.<sup>3</sup>

In 2006-2007, university students in Québec paid tuition fees that were 38% (\$1916) of the amount charged in Ontario (\$5046).<sup>4</sup> Furthermore, unlike in Québec, students in the other provinces enrolled at a level equivalent to college are usually required to pay tuition fees. Thus, on average in 2004-2005, most students enrolled full-time in programs leading to a diploma or certificate in a technical college in Ontario were required to pay approximately \$1900 a year in tuition fees.<sup>5</sup> This amount does not include other compulsory fees, textbooks or supplies.

In 2004-2005, total spending per capita in Québec school boards was lower than in the rest of Canada; the reverse was true for colleges and universities.

- 2. Regarding the organizational differences at the college level, see Section 1.4.
- 3. It must be noted, however, that there are comparatively more private schools in Québec than in the rest of Canada, and that tuition fees paid to the schools are included in the other sources of funding.
- 4. Tuition fees for students residing in Québec are \$1668 per year. See Note 1 at the bottom of Table 1.16.
- 5. Some programs involve higher tuition fees (14% of students pay between \$2000 and \$6000, while less than 1% pay between \$6 000 and \$11000).

Total educational spending includes the operating and capital expenses, research costs (for universities) and interest on debt service (but not repayment of principal), as defined by Statistics Canada. The concept of expense in this section differs from that used in previous editions of the Education Indicators because certain data is no longer produced by Statistics Canada.

### Table 1.3a

Total spending per capita in school boards, colleges and universities: Québec and the other regions of Canada, 2004-2005<sup>e</sup> (in current dollars)

#### Table 1.3b

Direct sources of funds for total educational spending: Québec and the other regions of Canada, 2002-2003 (%)

	School boards	Colleges <sup>1</sup>	Universities
Québec	1 227	270	668
Canada, excluding Québec	1 417	208	623
Atlantic Provinces	1 224	171	684
Ontario	1 493	181	630
Western Canada	1 357	246	600
Canada	1 372	222	634

	Provincial government	Federal government	Local government	Other sources	Total
Québec	68.8	8.3	6.1	16.8	100.0
Canada, excluding Québec Atlantic Provinces Ontario Western Canada	<b>53.4</b> 66.7 49.5 54.3	<b>8.9</b> 12.1 6.9 10.0	<b>17.6</b> 3.0 21.7 16.7	<b>20.1</b> 18.2 21.9 19.0	<b>100.0</b> 100.0 100.0 100.0
Canada	57.0	8.8	14.9	19.3	100.0

e: Estimates

1. Regarding the organizational differences at the college level, see Section 1.4.

#### Graph 1.3

Direct sources of funds for total educational spending: Québec, and Canada excluding Québec, 2002-2003 (%)



### **1.4** Total Educational Spending per Student<sup>1</sup> in Relation to Per Capita GDP

Total per-student spending is an indicator of financial investment in education, and the per capita gross domestic product (GDP) is an indicator of collective wealth. Relating the two provides an indicator of the relative financial investment in education, that is, per-student spending expressed as a percentage of the per capita GDP. In addition to each region's ability to pay, this ratio takes into account differences in the cost of living.

In 2003-2004, total per-student spending at the elementary and secondary levels (\$8465) was higher in Québec than in the Atlantic Provinces (\$7748) and in Western Canada (\$8397), but lower than in Ontario (\$8629). Per-student spending is essentially the same in Québec and as the average for the rest of Canada, despite the fact that salaries for school personnel are lower in Québec. This is due mainly to lower student-teacher ratios and greater spending on childcare services and school transportation.<sup>2</sup>

In 2003-2004, total per-student spending at the college level was higher in Québec (\$13588) than in Ontario (\$13238), but lower than in the Atlantic Provinces (\$13602) and Western Canada (\$14675). The comparisons of spending at the college level are provided as a reference only, since this level cannot truly be compared between provinces because of significant organizational differences. For example, in Ouébec, a Diploma of College Studies in pre-university education is the usual requirement for admission to university, whereas in the other provinces, a secondary school diploma is generally sufficient. In Ontario, college-level technical programs are offered at colleges of applied arts and technology. In some cases, the programs offered can be compared, to a certain extent, with vocational training programs offered by Québec school boards. More often, they are comparable to the technical training programs offered by Québec CEGEPs. Furthermore, in some provinces in Western Canada (especially Alberta and British Columbia), students can do their first two years of university studies in a college, and then finish their studies at a university.

Total per-student spending at the university level in 2005-2006 was higher in Québec ( $$26\,951$ ) than in Ontario ( $$22\,563$ ) and in the Atlantic Provinces ( $$20\,762$ ), but lower than in Western Canada ( $$28\,879$ ). The previously mentioned organizational differences partly explain the gaps observed between the regions.<sup>3</sup>

Table 1.4b shows total per-student spending in relation to the per capita GDP. Factoring in collective wealth, as measured by the per capita GDP, reveals that Québec's collective financial investment in education is higher than the average for the rest of Canada.

Québec's collective investment in education is higher than the average for the rest of Canada.

- 2. See Section 1.8 for additional explanations.
- 3. See Section 1.14 for additional explanations.

<sup>1.</sup> Total educational spending includes the operating and capital expenses, research costs (for universities) and interest on debt service (but not repayment of principal), as defined by Statistics Canada. The concept of expense in this section differs from that used in previous editions of the Education Indicators because certain data is no longer produced by Statistics Canada. Moreover, in the calculation of total per-student spending at the college and university levels, a standardized accounting of student enrollment for all the provinces based on the following convention has been used: part-time enrollments are converted into full-time enrollments.

### Table 1.4a

Total per-student educational spending: Québec and the other regions of Canada (\$)

#### Table 1.4b

Total per-student educational spending in relation to the per capita GDP: Québec and other regions of Canada (%)

	School boards 2003-2004	Colleges <sup>e</sup> 2003-2004	Universities 2005-2006 <sup>e</sup>
Québec Canada, excluding Québec Atlantic Provinces Ontario Western Canada Canada	8 465 8 457 7 748 8 629 8 397 8 459	<b>13 588</b> <b>13 992</b> 13 602 13 238 14 675 <b>13 848</b>	26 951 24 323 20 762 22 563 28 879 24 927
	School boards 2003-2004	Colleges <sup>e</sup> 2003-2004	Universities 2005-2006 <sup>e</sup>
Québec	25.1	40.3	74.5
Canada, excluding Québec Atlantic Provinces Ontario Western Canada Canada	<b>21.2</b> 24.9 21.4 20.3 <b>22.0</b>	<b>35.1</b> 43.7 32.9 35.5 <b>36.1</b>	<b>54.9</b> 60.2 52.6 59.7 <b>58.8</b>

e: Estimates

### Graph 1.4

Total per-student educational spending in relation to the per capita GDP: Québec, and Canada excluding Québec (%)



### 1.5 Cost of Educating Graduates

In 2004-2005, the total cost of a secondary school diploma was estimated at \$106600, of a college-level pre-university or technical diploma, at \$132946 and \$169170, respectively, and of a bachelor's degree, at \$212748.

The concept of cost used here includes operating expenses (excluding funded research), capital expenses of educational institutions, the Ministère's administrative expenses, government contributions to employee pension plans, the cost of financial assistance to students, and other education expenses. For graduates with a Secondary School Diploma (SSD), the cost is based on all the years during which school was attended at the preschool, elementary (regular) and secondary (general) levels. For students graduating with a Diploma of College Studies (DCS) in pre-university education, the cost is based on all the years attended at the preschool, elementary (regular), secondary (general) and college (pre-university) levels. For students graduating with a DCS in technical training, the cost is based on all the years attended at the preschool, elementary (regular), secondary (general) and college (technical) levels. For graduates with a bachelor's degree, the cost is based on all the years attended at the preschool, elementary (regular), secondary (general), college (pre-university) and undergraduate levels.

To calculate the cost of educating a graduate, an estimate of the annual spending per student at each level of education in  $2004-2005^1$ , as well as the average duration of studies completed by students who obtained the diploma or degree was used.<sup>2</sup> The expenses incurred by students leaving school without a diploma or degree were not taken into account.

As noted in Section 1.3, government subsidies make up a large part of the funding for education. However, the government also reaps a large portion of the benefits related to the earning of diplomas or degrees.

When we compare the income of two individuals with different levels of schooling, we usually observe that the person with the higher level of education is the one with the higher income (see

Graph 1.5). This extra income benefits not only the person with the higher level of education, but society as well. In fact, through taxation, governments recover a large portion of the extra income earned by the individual with the higher level of education. There are, however, a number of other public benefits in addition to the supplementary tax income produced by an increase in the number of graduates. For example, people with a higher level of education cost less to society in terms of the use of certain public services (such as last resort financial assistance and costs related to criminal activity). There is also a positive relationship between a person's level of education and state of health.<sup>3</sup>

In 2004-2005, the total cost of a bachelor's degree was approximately \$213000 in Québec.

Here, the university level encompasses undergraduate, graduate and doctoral studies. The cost of studies leading to a bachelor's degree is therefore slightly overestimated.

<sup>2.</sup> At the university level, one year of studies equals two full-time terms. A part-time term is counted as one third of a full-time term at the university level and one quarter at the college level. See Note 1 at the bottom of Table 1.5.

<sup>3.</sup> See Marius Demers, "The Return on a Bachelor's Degree," Education Statistics Bulletin 32 (Québec: Ministère de l'Éducation, du Loisir et du Sport, Direction de la recherche, des statistiques et des indicateurs), September 2005. This document is available on the Internet at <a href="http://www.mels.gouv.qc.ca/stat/index.htm">http://www.mels.gouv.qc.ca/stat/index.htm</a>.

Table 1.5 Cost of educating		Average duration of studies <sup>1</sup> (years)	Cost of education $(\$)^e$
graduates,	Secondary School Diploma	11.2	106 600
2004-2005	Diploma of College Studies Pre-university education	13.6	132 946
	Technical training	15.0	169 170

Bachelor's degree

 Preschool education is included in the cost but not in the average duration of studies indicated in the table, since it is not generally recognized as a year of academic pursuit. The actual durations indicated in the table are longer than the theoretical durations for a number of reasons, including students having to retake a course after failing it and changes made to a program while students are enrolled in it.

17.2

212 748



### 1.6 Total School Board Spending in Relation to the GDP

In 2004-2005, it was estimated that 3.5% of Québec's gross domestic product (GDP) was spent in school boards,<sup>1</sup> compared with the Atlantic Provinces at 3.8%, Ontario at 3.6% and Western Canada at 3.1%. In the United States, the share of the GDP allocated to public elementary and secondary education was estimated at 4.2%. Québec therefore spent a slightly larger share of its GDP in school boards than the rest of Canada, even though the duration of elementary and secondary education in Québec is shorter.<sup>2</sup>

Previous editions of the *Education Indicators* showed that during the 1980s, the share of the GDP allocated to elementary and secondary education decreased in Québec, while it remained stable in the rest of Canada (as a whole) and rose in the United States. The gap of 1.7 percentage points recorded in 1981-1982 between Québec and the rest of Canada narrowed steadily in subsequent years and disappeared almost entirely in 1989-1990. That same year, the share of the GDP spent on elementary and secondary education in Québec was slightly higher than in the United States. The fact that Québec has now reached the North American average can be explained largely by the more restrictive measures adopted by the Québec government to control spending during that period.

Between 1989 and 1993, a period of economic recession, the share of the GDP allocated to education rose almost everywhere in Canada and the United States, such that, in 1993-1994, Québec spent a slightly higher percentage of its GDP on elementary and secondary education than the rest of Canada.

Between 1993 and 1997, the share of the GDP spent on elementary and secondary education decreased in Québec and the other provinces, following budget cuts to school boards. In the United States, it remained essentially stable.

Since 1997-1998, in spite of a major reinvestment in education in Québec, the share of the GDP spent in school boards decreased (see Table 1.6). This is due primarily to the fact that, despite a large increase in Québec's per-student spending, the per capita GDP also rose significantly. During this period, Québec's student enrollments also dropped. Elsewhere in Canada, per-student spending rose at a slower rate than the per capita GDP and this in large part explains why the GDP allocated to elementary and secondary education decreased in the other provinces. In the United States, spending on public elementary and secondary education accounted for 4.2% of the GDP in 2004-2005.

When the share of Québec's GDP spent on elementary and secondary education is compared with that of the OECD countries in 2003, Québec ranked slightly below the average for the OECD countries considered, despite the fact that its per-student spending was slightly higher.<sup>3</sup> This can be explained primarily by the structural differences between education systems. For example, preschool services are more extensive in many OECD countries (children are admitted at the age of three) than in Québec, and the duration of elementary and secondary education in Québec is shorter than in the rest of the world.<sup>4</sup>

In 2004-2005, Québec spent a slightly larger share of its GDP in school boards than the rest of Canada.

- 3. See Marius Demers, "Educational Spending Relative to the GDP in 2001. A comparison of Québec and the OECD Countries," Education Statistics Bulletin 31 (Québec: Ministère de l'Éducation, du Loisir et du Sport, Direction de la recherche, des statistiques et des indicateurs), September 2005. This document is available on the Internet at <a href="http://www.mels.gouv.qc.ca/stat/index.htm">http://www.mels.gouv.qc.ca/stat/index.htm</a>. An update to 2003 is available.
- 4. Québec's college network also has unique characteristics (including the mandatory two years of college before entering university). This compensates for the shorter duration of elementary and secondary education in Québec.

In 2004-2005, Québec spent \$9.3 billion of its \$265.1-billion GDP in school boards. The concept of total spending used in this section is defined at the bottom of Table 1.6. The concept of expense in this section differs from that used in previous editions of the Education Indicators because certain data is no longer produced by Statistics Canada.

<sup>2.</sup> The duration of elementary and secondary education is 11 years in Québec and normally 12 years in the other regions considered. The private school system is also more developed in Québec than elsewhere in Canada.

#### Table 1.6

Total school board spending<sup>1</sup> in relation to the GDP: Québec, the other regions of Canada, and the United States (%)

	1997- 1998	1999- 2000	2001- 2002	2002- 2003	2003- 2004	2004- 2005°
Québec	3.9	3.8	3.7	3.7	3.6	3.5
Canada, excluding Québec	3.9	3.7	3.4	3.4	3.4	3.4
Atlantic Provinces Ontario Western Canada	4.8 4.0 3.5	4.6 3.7 3.5	4.1 3.5 3.3	4.0 3.4 3.4	3.9 3.5 3.2	3.8 3.6 3.1
Canada	3.9	3.7	3.5	3.5	3.4	3.4
United States	4.0	4.1	4.3	4.3	4.3	4.2

e: Estimates

United States

1. Total spending includes the operating and capital expenses, direct contributions of the Québec government to employee pension plans and interest on the debt service (but not repayment of principal) (as defined by Statistics Canada). Figures on spending for 1997 to 2003 are taken from Statistics Canada's Elementary-Secondary Education Statistics Project (ESESP,) in which the Ministère de l'Éducation, du Loisir et du Sport participates. Also see Note 1 at the bottom of the text.





### 1.7 Total School Board Spending in Current and Constant Dollars

In 2005-2006, total school board spending in Québec was estimated at \$9.6 billion, student enrollments at approximately 1.1 million, and per-student spending in current dollars at \$9094.1

Previous editions of the Education Indicators showed that during the 1970s, school board spending rose significantly in Québec in a context of high inflation. Spending can also be expressed in constant dollars, so as to factor in the rise in the price of goods and services used to provide educational services.<sup>2</sup> The figures show that spending in constant dollars remained relatively stable between 1976 and 1981, while enrollments declined by 17%. This resulted in a significant increase in real funds available per student. The following factors contributed to this rise: a lower studentteacher ratio, an increase in teacher qualifications recognized for salary purposes, and the higher cost of job security for teachers.

In the 1980s, a lower inflation rate, salary restrictions and generally more conservative budget policies considerably curbed the rapid rise in school board spending (in current and constant dollars).

Between 1990 and 1998, per-student spending in constant dollars also fell, so that in 1998-1999, it was 10% lower than in 1990-1991. This decrease can be explained by budget cutbacks and the application of cost-cutting measures in Québec school boards. The introduction of full-time kindergarten in 1997-1998 also contributed to the drop in per-student spending.<sup>3</sup>

Between 1998 and 2005, there was a 36% increase in per-student spending in current dollars and a 17% increase in constant dollars. These increases are primarily the result of the agreements concluded in 2000 and 2002 between the Québec government and the unions regarding a new salary structure for teachers,<sup>4</sup> and of support measures for school boards (additional funding for child-care services,<sup>5</sup> programs to reduce the dropout rate, smaller classes in preschool and the first cycle of elementary school, special education policy, implementation of the education reform, support for economically disadvantaged areas, various measures to counteract the effect of lower enrollments and to maintain services in the different regions of Québec, etc.).

These support measures for school boards also resulted in a decrease in the average number of students per teacher, which dropped from 16.3 in 1998-1999 to 14.9 in 2005-2006. This factor contributed significantly to the increase in per-student spendina.6

From 1998 to 2005, school board spending per student increased by 17% in constant dollars.

- 3. The introduction of full-time kindergarten resulted in an increase in the "relative weight" of a relatively inexpensive sector of enrollments.
- 4. In the first agreement (April 2000), salary scales were adjusted retroactively to 1995-1996 but the school boards' financial statements do not take them into account until 1999-2000; this explains the large increase observed in 1999-2000 (significant adjustment of salary scales compared with the previous year). It is important to note, however, that the amounts paid retroactively in 1999-2000 for past years are not considered for the purpose of calculating per-student spending in 1999-2000 and that per-student spending for past years has not been adjusted.
- 5. Following a policy limiting the financial contribution of parents to \$5, then \$7, a day for each child enrolled on a regular basis in child-care services.
- 6. See Sections 1.8 and 1.9.

<sup>1.</sup> See Note 1 at the bottom of Table 1.7. The concept of spending is the same as that used in Section 1.8.

<sup>2.</sup> The consumer price index (CPI) is used to express spending in constant dollars. Editions of the Education Indicators prior to 2005 used the school boards' education price index.

#### Table 1.7 Total school board spending<sup>1</sup>

	1997- 1998	1998- 1999	2000- 2001	2002- 2003	2004- 2005	2005- 2006°
Total spending (in	millions of dollar	s)				
In current dollars In constant 2005-2006 dolla	5 7 357.5 8 652.8 ars <sup>2</sup>	7 446.9 8 642.1	8 387.2 9 330.6	9 018.8 9 593.4	9 242.4 9 448.4	9 625.8 9 625.8
Spending per stud	lent (\$)					
In current dollars In constant 2005-2006 dolla	6 579 7 737 ars <sup>2</sup>	6 671 7 742	7 664 8 526	8 316 8 846	8 732 8 927	9 094 9 094

e: Estimates

 Total spending includes the operating and capital expenses, direct contributions of the Québec government to employee pension plans and interest on the debt service (but not repayment of principal). This concept was defined by Statistics Canada (Elementary-Secondary Education Statistics Project—(ESESP). The concept of spending in this section is the same as that used in Section 1.8, but the data here is more up-to-date than in Section 1.8 (which explains the small differences in per-student spending in current dollars in Québec, for the same years in the two sections).

2. See Note 2 at the bottom of the text.



#### Graph 1.7 Total school board

spending per student in current dollars and in constant 2005-2006 dollars

### 1.8 Total School Board Spending per Student

In 2003-2004, total spending per student<sup>1</sup> by Québec school boards was estimated at \$8,465, compared with the Atlantic Provinces at \$7,748, Ontario at \$8,629 and Western Canada at \$8,397. In the United States, per-student spending was estimated at \$12,432.<sup>2</sup>

Previous editions of the *Education Indicators* showed that spending per student rose more rapidly in Québec than in the rest of Canada and the United States in the 1970s. The sharper decline in Québec enrollments accounted for a large increase in per-student spending, owing to constraints that prevented expenses from being slashed in proportion to the drop in enrollments. More costly salary policies, a greater decrease in the student-teacher ratio and the higher cost of job-security policies also contributed to the more rapid rise of per-student spending in Québec during this period.

In the 1980s, a reversal occurred: per-student spending rose more slowly in Québec than in the rest of Canada and the United States. In Québec, the slower growth in spending was a result of salary-restriction measures applied to school board employees. During that time, the working conditions of school board employees were improving significantly in Ontario and in the United States, with the result that per-student costs increased at a faster pace in these regions than in Québec.

Between 1990 and 2003, per-student spending varied in Canada and, in 2003-2004, it was essentially the same in Québec as the Canadian average. It should be noted that perstudent spending in Québec increased by 27% between 1998 and 2003. This increase is the result of different factors,<sup>3</sup> one of which is the main reason for the greater increase in perstudent spending in Québec (27%) than in Ontario (14%) during this period. This is the fact that the student-teacher ratio decreased in Québec, while it remained the same in Ontario.<sup>4</sup>

It should also be noted that the comparison of per-student spending in the different provinces does not take into account regional differences in terms of the cost of living, which is lower in Québec than the average for the rest of Canada (about 10% lower in 2003-2004). If the data were adjusted to take the cost of living into account, per-student spending would be even higher in Québec (in absolute terms).

In the United States, per-student spending in 2003-2004 was 47% higher than in Québec. A comparison with the United States as a whole for 2003-2004 reveals that per-student spending was higher in 40 U.S. states<sup>5</sup> than in Québec, and lower in 11 states.

In 2003-2004, total school board spending per student in Québec was essentially the same as the Canadian average, but lower than in the United States.

- 3. See Section 1.7.
- 4. See Section 1.9.
- 5. Including the District of Columbia.

The basic data used in this section is taken from an annual survey conducted by Statistics Canada among all Canadian provinces (Elementary-Secondary Education Statistics Project–ESESP). The Ministère de l'Éducation, du Loisir et du Sport participates in this survey.

<sup>2.</sup> For the purposes of this comparison, per-student spending in the United States is expressed in Canadian dollars. American dollars are converted to Canadian dollars using the purchasing power parity rates (PPP) set by the OECD. "Purchasing Power Parities (PPPs) are the rates of currency conversion that equalize the purchasing power of different currencies. This means that a given sum of money, when converted into different currencies at the PPP rates, will buy the same basket of goods and services in all countries. Thus, PPPs are the rates of currency conversion which eliminate differences in price levels between countries." (OECD, National Accounts).

#### Table 1.8

Total school board spending per student:<sup>1</sup> Québec, the other regions of Canada, and the United States (in current dollars<sup>2</sup>)

	1997- 1998	1998- 1999	2000- 2001	2001- 2002	2002- 2003	2003- 2004
Québec	6 575	6 668	7 612	7 900	8 308	8 465
Canada, excluding Québec	6 897	7 142	7 509	7 646	7 981	8 457
Atlantic Provinces Ontario Western Canada	5 813 7 307 6 589	6 015 7 559 6 836	7 095 7 681 7 387	6 950 7 727 7 708	7 236 7 943 8 220	7 748 8 629 8 397
Canada	6 826	7 037	7 531	7 701	8 052	8 459
United States	8 986	9 318	11 002	11 406	11 883	12 432

 Total spending includes the operating and capital expenses, direct contributions of the Québec government to employee pension plans and interest on the debt service (but not repayment of principal). This concept was defined by Statistics Canada (Elementary-Secondary Education Statistics Project—ESESP). The concept of spending in this section is the same as that used in Section 1.8, but the data here is more up-to-date than in Section 1.8 (which explains the small differences in per-student spending in current dollars in Québec, for the same years in the two sections).

2. See Note 2 at the bottom of the text.

### Graph 1.8

Total school board spending per student: Québec, Ontario and the United States (in current dollars)



### **1.9 Student-Teacher Ratio** in School Boards

n 2005-2006, the average number of students per teacher in school boards was estimated at 14.9 in Québec. The studentteacher ratio is calculated by dividing the number of students by the number of teachers in the school boards. Data on enrollments and teaching personnel is expressed in full-time equivalents. The ratio therefore does not indicate the average number of students per class. To understand the difference between these two ratios, the student-teacher ratio must be considered as a composite indicator that is the result of three variables: the average number of students per class, the average teaching time of teachers and the average instruction time for students.

In 2005-2006, the student-teacher ratio in the United States was 15.2. A comparison of Ouébec with the United States as a whole reveals that the student-teacher ratio was higher in 26 states and lower in 25 states.<sup>1</sup>

The data available for the other provinces uses a broader concept of personnel. In addition to teachers, educators also include school administrators and nonteaching professionals who work with students (e.g. education consultants, guidance counsellors and pastoral animators). Table 1.9b contains data on the student-educator ratio.<sup>2</sup> In 2003-2004, this ratio was lower in Québec (14.1) than in the Atlantic Provinces (15.3), Ontario (16.6) and Western Canada (17.1). The lower number of students per educator in Québec than in Ontario is largely due to the average teaching time of teachers and class size, which are lower in Québec. For example, the average teaching time of teachers in Québec was 615 hours per year at the secondary level, while that of their counterparts in Ontario was 740 hours. Class size at the secondary level is estimated at 21 students in Québec and 23 students in Ontario.<sup>3</sup>

In the 1990s, the student-educator ratio in Québec and the rest of Canada tended to increase, rising the most in Ontario. The increase in Ontario was due to job cuts resulting from the application of the 1993 Social Contract legislation. One of the objectives of this legislation was to reduce the number of teachers in school boards. There were also budget cutbacks in Québec in the 1990s, but they affected mostly salaries. It should also be noted that, in their con-

tract negotiations, Québec unions have always given priority to employment levels and job descriptions.

However, since the peak observed in 1997-1998 (15.2), Québec's student-educator ratio has gradually declined. This can be explained in part by the smaller class sizes in preschool and the first cycle of elementary school, and by the hiring of specialists. In 2003-2004, the average number of students per educator was 14.1 in Québec and 16.6 in the rest of Canada. This gap of 2.5 has a major impact on school board spending per student and explains why, despite a lower average salary in Québec than in the rest of Canada, per-student spending is essentially the same.<sup>4</sup>

The average number of students per teacher in Québec dropped from 16.3 in 1998-1999 to 14.9 in 2005-2006.

4. See Sections 1.8 and 1.10.

<sup>1.</sup> Including the District of Columbia.

<sup>2.</sup> Data on the student-teacher ratio is taken from an annual survey conducted by Statistics Canada among all Canadian provinces (Elementary-Secondary Education Statistics Project-ESESP). The Ministère de l'Éducation, du Loisir et du Sport participates in this survey.

<sup>3.</sup> The instruction time for students is 900 hours in Québec and 950 hours in Ontario.

### Table 1.9a

Student-teacher ratio in school boards: Québec and the United States

	1997- 1998	1998- 1999	2000- 2001	2002- 2003	2004- 2005	2005- 2006°
Québec	16.5	16.3	16.0	15.7	15.0	14.9
United States	16.3	16.0	15.7	15.5	15.2	15.2

### Table 1.9b

Student-educator ratio<sup>1</sup> in school boards: Québec and the other regions of Canada

	1997-	1998-	2000-	2001-	2002-	2003-
	1998	1999	2001	2002	2003	2004 <sup>e</sup>
Québec	15.2	15.0	14.6	14.6	14.3	14.1
Canada, excluding Québec	17.1	16.8	16.7	16.7	16.8	16.6
Atlantic Provinces Ontario Western Canada	16.5 16.9 17.6	16.2 16.6 17.4	15.9 16.6 17.1	15.8 16.8 16.9	15.6 16.7 17.2	15.3 16.6 17.1
Canada	16.6	16.4	16.2	16.2	16.2	16.0

e: Estimates

1. See definition in the text.

### Graph 1.9

Student-educator ratio in school boards: Québec, Ontario and the other regions of Canada


# 1.10 Average Salary of Teachers in School Boards

In Québec, the basic salary of teachers in school boards is based on their schooling and work experience. There are 17 steps in the salary scale and a new teacher with a bachelor's degree enters at the third step (starting salary of \$36 196 in 2005-2006). The maximum salary was \$63 296 in 2005-2006, while the average salary was \$52 688.

In the United States, the average salary of teachers was \$61 386.<sup>1</sup> A comparison of Québec with the United States as a whole for 2005-2006 reveals 33 U.S. states <sup>2</sup> where the average salary of teachers was higher than in Québec and 18 states where it was lower.

The data available for the other provinces uses a broader concept of personnel. In addition to teachers, educators also include school administrators and nonteaching professionals who work with students (e.g. education consultants, guidance counsellors and pastoral animators).<sup>3</sup> Table 1.10b contains data on the average salary of educators. In 2003-2004, the average salary of educators in Québec was lower than in the rest of Canada. The difference between the average salary in Québec (\$51 960) and in the rest of Canada (\$64 281) was 19%.

Throughout most of the 1990s, the average salary of educators increased more slowly in Québec than in the rest of Canada. In Québec, in a battle against budget deficits, agreements between the government and unions have resulted in the average salary of teachers rising very little. Also, in 1997, a vast program of voluntary retirement resulted in a younger average age of teachers in Québec and, consequently, a decrease in the average salary because of less seniority.<sup>4</sup>

Between 1998-1999 and 2003-2004, the increase in the average salary of educators in Québec (16.0%) was about the same as in the rest of Canada (15.2%). In 2003-2004, the average salary of teachers in Québec was still lower than that of their counterparts in the rest of Canada (a difference of 19%). It must be noted, however, that relative wealth (measured in terms of per capita GDP) and the cost of living are both lower in Québec than in the rest of Canada.

The salary of teachers in Québec school boards can be compared with that of the member countries of the Organisation for Economic Co-operation and Development (OECD) using indicators such as starting salary, salary after 15 years of seniority and maximum salary.<sup>5</sup> In 2004-2005, the salary of teachers in Québec school boards was higher than the average for the OECD countries. Gaps in salaries are particularly wide in the case of teachers with 15 years of seniority because in Québec teachers reach the maximum salary scale their 15th year of recognized experience, whereas in the OECD countries, the maximum salary is reached on average after 24 years.

Teachers in Québec earned less than teachers in neighbouring regions, although the cost of living in Québec is lower as well.

- 2. Including the District of Columbia.
- 3. Data on the student-teacher ratio is taken from an annual survey conducted by Statistics Canada among all Canadian provinces (Elementary-Secondary Education Statistics Project–ESESP). The Ministère de l'Éducation, du Loisir et du Sport participates in this survey.
- In Québec, the basic salary of teachers in school boards is determined by the collective agreements. Teachers' salaries are based on their schooling and work experience.
- 5. See Marius Demers, "Cost of Statutory Salaries of Teachers per Student for Elementary and Secondary School Levels in 2000-2001. A comparison of Québec and OECD Countries," Education Statistics Bulletin 29 (Québec: Ministère de l'Éducation, du Loisir et du Sport, Direction de la recherche, des statistiques et des indicateurs), November 2003. This document is available on the Internet at <http://www.mels.gouv.gc.a/stat/index.htm>. An update to 2004-2005 is available.

<sup>1.</sup> The average salary of American teachers was determined on the basis of data from the National Education Association; this data was then converted into Canadian dollars using the purchasing power parity rates (PPP) set by the OECD. See Note 2 in Section 1.8.

#### Table 1.10a

Average salary of teachers in school boards: Québec and the United States (in current dollars<sup>1</sup>)

### Table 1.10b

Average salary of educators<sup>2</sup> in school boards: Québec and the other regions of Canada (in current dollars)

Québec         41 595         42 908         46 992         48 635         51 317         52	688 386
	386
United States 47 451 48 135 53 528 56 255 59 593 61	
1997- 1998- 2000- 2001- 2002- 20 1998 1999 2001 2002 2003 20	03- 04
Québec 43 446 44 779 49 479 50 414 51 030 51	960
Canada, excluding Québec 55 723 55 776 57 365 59 077 61 821 64	281
Atlantic Provinces47 98748 99350 66153 75255 39756Ontario59 14458 46259 80161 48363 25066Western Canada53 15253 83856 05757 41761 80963	781 469 506
Canada 52 732 53 120 55 473 56 993 59 181 61	249

e: Estimates

1. See Note 1 at the bottom of the text.

2. See definition in the text.

# Graph 1.10

Average salary of educators in school boards: Québec and other regions of Canada (in current dollars)



In 2005-2006, CEGEP spending on regular education was estimated at approximately \$1.3 billion, with student enrollments at roughly 143 000.<sup>1</sup> Per-student spending was an estimated \$8 984.

Previous editions of the *Education Indicators* showed that CEGEP spending grew more slowly in the 1980s than in the 1970s. This was a result of a curtailment of the inflation rate, as well as budget cutbacks adopted by the Québec government. Enrollments also continued to rise until the mid-1980s, but then declined. Per-student spending in constant dollars was lower in 1989-1990 than in 1981-1982.<sup>2</sup>

In 1990-1991, per-student spending in current dollars was \$6 920, or 8.6% higher than in 1989-1990 (which corresponds to a growth of 4.1% in constant dollars). This increase can be explained primarily by a decline in the student-teacher ratio following the addition of new positions as part of a collective agreement. The increase in the number of teachers applies to activities such as departmental committees, practicums, professional development, and student support services.

In the 1990s, per-student spending in constant dollars followed a downward trend. This can be explained by budget cutbacks and the application of cost-cutting measures in CEGEPs. These measures were largely the result of agreements between the government and unions, which made it possible to lower labour costs. Thus, between 1990 and 1998, per-student spending in constant dollars decreased by 17%.

Between 1998-1999 and 2003-2004, there was a 30% increase in per-student spending in current dollars and a 17% increase in constant dollars. These increases were due primarily to new collective agreements for all CEGEP employees and support measures for CEGEPs (for the development of new information technologies, for careers in science, for success measures, etc.). However, per-student spending in constant dollars has remained stable since 2002-2003. In 2006, the Québec government announced a significant investment in CEGEPs over the coming years; this should translate into an increase in per-student spending in constant dollars, starting in 2006-2007.

Per-student spending in CEGEPs was therefore \$8 984 in 2005-2006. This amount is an average for all types of programs: per-student spending on pre-university programs was \$7 143, while spending on technical programs was \$10717. The higher estimated cost of technical training (50% more) is due primarily to the higher cost of personnel and the use of more costly equipment. The higher cost of personnel is attributable for the most part to the fact that the average number of students per teacher is far lower in technical training than in general education.

In 2005-2006, 93% of CEGEP spending on regular education was provided by the Québec government. This percentage is much higher than the corresponding percentage for community colleges in the other provinces. This is because college is free in Québec, while students attending community colleges in the other provinces must generally pay tuition.<sup>3</sup> In Ontario, for example, students in regular programs pay annual tuition fees of approximately \$1 900.<sup>4</sup>

Between 1998-1999 and 2005-2006, CEGEP spending increased by 24%, in spite of a 8% decrease in enrollments. This resulted in a significant increase in per-student spending.

- Data on enrollments is based on fall registration recognized for the purpose of estimating costs.
- In this section, the Consumer Price Index (CPI) is used to express spending in constant dollars. Editions of the Education Indicators prior to 2005 used the CEGEPs' education price index.
- 3. CEGEP students (in regular education) do not pay tuition. There are, however, certain mandatory expenses, and students must pay for their textbooks and other supplies.
- 4. Tuition fees for some programs are higher (14% of students pay between \$2000 and \$6000, while less than 1% pay between \$6000 and \$11000).

#### Table 1.11 CEGEP operating expenses<sup>1</sup>

	1990- 1991	1993- 1994	1998- 1999	2002- 2003	2003- 2004	2005- 2006⁰
Total spending in current dollars (in millions of dollars)	909.0	1 074.9	1 035.7	1 230.4	1 258.8	1 284.6
Per-student spending in current dollars	6 920	6 876	6 688	8 469	8 725	8 984
Per-student spending in constant 2005-2006 dollars <sup>2</sup>	9 337	8 398	7 761	9 009	9 1 1 6	8 984

e: Estimates

1. Operating expenses exclude debt service (long-term and current liabilities) and capital expenses financed directly from current revenues.

2. See Note 2 at the bottom of the text.



CEGEP operating expenses per student in current dollars and in constant 2005-2006 dollars



# 1.12 Student-Teacher Ratio, Average Teacher Salary and Cost of Teachers per Student in CEGEPs

This section is a complement to Section 1.11, which analyzed the changes in CEGEP spending. Salary costs for teachers accounted for more than half the total of CEGEP spending in 2005-2006, and the changes in these costs were a determining factor in the changes in operating expenses.<sup>1</sup> Two factors determine the cost of teachers per student:<sup>2</sup> the student-teacher ratio, and the average salary of teachers in CEGEPs.

In 2005-2006, the average number of students per teacher in CEGEPs was estimated at 12.6 and the average teacher's salary, at \$59814. The student-teacher ratio is calculated by dividing the number of students by the number of teachers in the CEGEPs.<sup>3</sup> The ratio therefore does not indicate the average number of students per class. To understand the difference between these two ratios, the student-teacher ratio must be considered as a composite indicator that is the result of three variables: the average number of students per class, the average teaching time of teachers and the average instruction time for students.

Previous editions of the *Education Indicators* revealed that the cost of teachers per student in constant dollars decreased during the 1980s. During the same period, the student-teacher ratio increased and the average teacher salary (in constant dollars) decreased. These changes occurred in the context of more conservative budget policies.

Between 1989 and 1990, the cost of teachers per student increased by 11.2% (7.4% in constant dollars). As mentioned in Section 1.11, this increase is mainly due to a decrease in the average number of students per teacher following the addition of new positions as part of a collective agreement. The increase in the number of teachers applies to activities such as departmental committees, practicums, professional development, and student support services.

Between 1990 and 1998, per-student spending in constant dollars decreased. The labour cost reduction measures mentioned in Section 1.11 contributed to this result. Of particular note is the program of voluntary retirement that resulted in a younger average age of teachers. These measures were taken as part of the battle against budget deficits undertaken by the Québec government in the 1990s.

However, between 1998 and 2003, there was a 14% increase in the cost of teachers per student in constant dollars, primarily because of new collective agreements for all CEGEP employees and a decrease in the student-teacher ratio, from 13.8 in 1998-1999 to 12.4 in 2003-2004. However, since 2002-2003, the cost of teachers per student in constant dollars has been relatively stable, in large part, because salaries were underindexed during this period.<sup>4</sup>

In 2005-2006, the average number of students per teacher in CEGEPs was estimated at 12.6 and the average teacher's salary, at \$59 814. The actual cost of teachers increased by 14% between 1998 and 2003, followed by a slight decline.

- The salary costs considered in this section do not include employee benefits. If these were included, salary costs for teachers would account for more than 60% of total CEGEP operating expenses.
- 2. The cost of teachers per student is calculated by dividing the total payroll for teachers by the number of students.
- Data on enrollments is based on fall registration recognized for the purpose of estimating costs, and data on teaching personnel is expressed in full-time equivalents.
- 4. The Québec government adopted Bill 142, which defines the salary rates and scales for CEGEP personnel until 2010.

## Table 1.12

Student-teacher ratio,<sup>1</sup> average salary of teachers and cost of teachers per student in CEGEPs

	1990- 1991	1993- 1994	1998- 1999	2002- 2003	2003- 2004	2005- 2006°
Student-teacher ratio	13.5	13.9	13.8	12.5	12.4	12.6
Average salary in current dollars	46 512	48 789	50 399	55 877	57 489	59 814
Cost of teachers per stud	ent					
In current dollars In constant dollars (2005-2006)	3 444 4 648	3 503 4 278	3 659 4 246	4 473 4 758	4 634 4 842	4 737 4 737
a Estimatos						

e: Estimates

1. See Note 3 at the bottom of the text.



Cost of teachers per student in CEGEPs in current dollars and in constant 2005-2006 dollars



# 1.13 Total University Spending in Relation to the GDP

In 2005-2006, 1.92% of the GDP was allocated to university education in Québec,<sup>1</sup> compared with 2.09% in the Atlantic Provinces, 1.55% in Ontario and 1.27% in Western Canada.<sup>2</sup>

Previous editions of the *Education Indicators* showed that during the 1980s, the share of the GDP allocated to university education dropped slightly in Québec, Ontario and the Atlantic Provinces, whereas it increased in Western Canada. However, in the early 1990s the share of the GDP allocated to university education increased significantly in Québec, whereas the increase was less marked in the rest of Canada. Québec's higher spending is partly explained by strong growth in research at its universities,<sup>3</sup> but also by a more rapid increase in real funds allocated to university education dropped in Québec as a result of budget cuts and a reduction in labour costs. In the rest of Canada, the share of the GDP allocated to university education went down as well, although not as significantly.

Between 1999 and 2005, the share of the GDP allocated to university education increased slightly both in Ouébec and in the rest of Canada. In Québec, this increase was due primarily to the increase in per-student spending (in absolute terms) and by the growth in enrollments. In 2005-2006, investment in university education remained higher in Québec than in the rest of Canada (except in the Atlantic Provinces). To explain why Québec invested more of its GDP in university education, it is necessary to consider the following four factors: per-student spending; the collective wealth (as defined by the per capita GDP); the labour force participation rate (the proportion of the student population with respect to the population aged 18 to 24) and the demographic factor (the proportion of 18-to-24-year-olds with respect to the total population). Three of these four factors contributed to greater spending in Québec: higher per-student spending in Québec than in the rest of Canada, the slightly higher labour force participation rate in Québec and, most of all, the fact that the collective wealth is lower in Ouébec. Only the demographic factor (relatively fewer young people in Québec) had the opposite effect.

Another indicator is used to determine the relative investment of the regions under consideration. It combines two of the factors: per-student spending and the per capita GDP. In addition to the regions' ability to pay, this ratio takes into account differences in the cost of living (in 2005-2006, the cost of living in Québec was about 10% lower than in the rest of Canada). The relationship between per-student

spending and the per capita GDP is considerably higher in Québec than in the rest of Canada.  $\!\!\!^4$ 

When compared with the member countries of the Organisation for Economic Co-operation and Development (OECD), Québec ranks among the countries with the largest share of its GDP allocated to university education in 2003.<sup>5</sup> This can be explained primarily by the fact that the cost of per-student spending is much higher in Québec than the OECD average. In addition, the schooling rate of young people is higher in Québec than on average in OECD countries, and this factor contributed to the larger investment in university education.

Investment in university education is higher in Québec than in the rest of Canada and in most OECD countries.

- 3. See Section 1.17.
- 4. See Section 1.4.
- 5. See Marius Demers, "Educational Spending Relative to the GDP in 2001. A comparison of Québec and the OECD Countries," Education Statistics Bulletin 31 (Québec: Ministère de l'Éducation, du Loisir et du Sport, Direction de la recherche, des statistiques et des indicateurs), September 2005. This document is available on the Internet at <ttp://www.mels.gouv.qc.ca/stat/index.htm>. An update to 2003 is available.

<sup>1.</sup> In 2005-2006, Québec spent \$5.3 billion of its \$274.9-billion GDP on university education.

<sup>2.</sup> The data on universities presented here has not been adjusted to take into account the organizational differences in the education systems. The concept of spending used in this section differs from that of previous editions of the Education Indicators because certain data is no longer produced by Statistics Canada.

#### Table 1.13

Total spending allocated to university education<sup>1</sup> in relation to the GDP: Québec and the other regions of Canada (%)

	1997- 1998	1999- 2000	2001- 2002	2003- 2004	2004- 2005	2005- 2006º
Québec	1.42	1.51	1.63	1.90	1.90	1.92
Canada, excluding Québec	1.11	1.20	1.31	1.46	1.48	1.46
Atlantic Provinces Ontario Western Canada	1.87 1.07 1.03	1.96 1.14 1.14	1.99 1.30 1.22	2.05 1.47 1.37	2.10 1.51 1.35	2.09 1.55 1.27
Canada	1.17	1.26	1.38	1.55	1.57	1.55

e: Estimates

1. Total university spending includes the general operating fund, endowment fund, research fund and capital fund. The basic data used to calculate total university spending in relation to the GDP was obtained from the Canadian Association of University Business Officers (CAUBO) and Statistics Canada. Also see Note 2 in the text.



# Graph 1.13 Total university

spending in relation to the GDP: Québec and the other regions of Canada

# 1.14 Total Per-Student **University Spending**

n 2005-2006, total spending per student by Québec universities was estimated at \$26,951, compared with \$20,762 in the Atlantic Provinces, \$22563 in Ontario and \$28879 in Western Canada.

Total university spending includes the general operating fund, endowment fund, research fund and capital fund. The concept of spending used in this section differs from that of previous editions of the Education Indicators, where the concept of operating expenses was used. However, in light of new information, it is preferable to use a broader definition in order to have more comparable data on per-student spending in universities.<sup>1</sup>

Between 1997 and 2001, the gap between total per-student spending in Québec and in the rest of Canada narrowed, and in 2001-2002, it was essentially the same. However, in subsequent years, it rose at a faster rate than in the rest of Canada, such that in 2005-2006, perstudent spending was 11% higher in Québec (\$26951) than in the rest of Canada (\$24323).

The more rapid growth in spending in Québec in recent years is primarily a result of a more substantial operating subsidy (reinvestment in Québec universities and 100% funding of the growth in student enrollments).

The higher total per-student spending in Québec universities in 2005-2006 can be partly explained by the organizational differences among education systems, such as differences in the composition of the student body according to level and field of study. Because Québec universities have a costlier composition, per-student spending is also higher. If the data were adjusted to take this factor into account, the gap between Québec and the rest of Canada would drop to 6% (instead of 11%).

Another adjustment may also be made to take into account differences in the cost of living from one province to another (the cost of living was approximately 10% lower in Ouébec than in the rest of Canada in 2005-2006). If the data were adjusted to consider both the costlier student body composition of Québec universities and Québec's lower cost of living, the gap between Québec and the rest of Canada would rise to 16%.

Unadjusted data shows that in 2005-2006, total spending per student by Québec universities was \$2,628 higher than the average for the rest

of Canada. This gap can be explained primarily by higher per-student spending on teaching personnel,<sup>2</sup> administration, activities related to computers and communications, research, capital expenses and financing costs. Conversely, there is less spending in Québec than in the rest of Canada on student services (including bursaries<sup>3</sup>), external relations and libraries. This difference, which has been particularly pronounced in recent years can be explained in part by Ontario's double cohort.<sup>4</sup>

In 2004-2005, total spending per student by Québec universities was higher than in the rest of Canada.

- 1. In 2004, the Canadian Association of University Business Officers (CAUBO) formed a task force responsible for identifying the factors behind the differences in financial reporting from one university to another. Experts have indicated that one of the main factors contributing to data comparability problems is the fact that universities record their expenses differently in the various funds. Thus, some expenses are entered in the capital fund and others, in the general operating fund (e.g. the purchase of furniture and equipment). The report also notes problems related to the distribution of certain expenses between the general operating fund and the research fund (e.g. medecine costs), as well as between the general operating fund and the endowment fund (Source: CAUBO, Report of the Task Force on the Review of CAUBO Financial Reporting, November 2004).
- 2. See Section 1.15.
- 3. Universities outside Québec award more bursaries because their tuition fees are higher than Québec's, but they are expected to give a portion back to the students in the form of bursaries.
- 4. The double cohort refers to students who began Grade 11 and Grade 12 in September 2001, and who completed their secondary education at the same time in 2003. Therefore, a large number of students entered university in 2003-2004, which resulted in an increase in the "relative weight" of a less expensive sector of enrollments.

#### Table 1.14

Total university spending per student:<sup>1</sup> Québec and the other regions of Canada (in current dollars)

	1997- 1998	1999- 2000	2001- 2002	2003- 2004	2004- 2005	2005- 2006⁰
Québec	16 780	19 129	21 936	25 241	26 136	26 951
Canada, excluding Québec	16 010	18 680	21 671	23 042	24 164	24 323
Atlantic Provinces Ontario Western Canada	13 868 15 618 17 481	16 463 18 229 20 253	17 582 21 453 23 631	18 817 21 798 26 797	20 406 22 436 28 637	20 762 22 563 28 879
Canada	16 203	18 793	21 736	23 563	24 628	24 927

e: Estimates

1. Total university spending includes the general operating fund, endowment fund, research fund and capital fund. The concept of spending used in this section differs from that of previous editions of the Education Indicators. The basic data used to calculate per-student spending in universities was obtained from Statistics Canada and the Canadian Association of University Business Officers (CAUBO). In addition, the calculation of per-student spending is based on a standard method for counting student enrollments in all provinces, as follows: part-time enrollments are divided by 3.5 to convert them into full-time equivalents, and are then added to the full-time enrollments.

### Graph 1.14

Total university spending per student: Québec and the other regions of Canada (in current dollars)



# 1.15 Salary Costs of University Professors

**S**alary spending (including employee benefits) for all categories of personnel accounts for more than half of the total university spending in Québec and in the rest of Canada. Professors' salaries are the largest component of payroll expenditure. When the total payroll for professors is divided by the number of students expressed in full-time equivalents, the result is the cost of professors per student. In 2004-2005, this cost (\$7018) was higher in Québec than in the Atlantic Provinces (\$6108) and Ontario (\$6252), but lower than in Western Canada (\$8092).<sup>1</sup> The cost of professors per student in Québec is higher than the average for the rest of Canada (\$6822).

The total payroll considered in the calculation of per-student spending for professors includes deans, department heads, research professors and lecturers, as well as amounts paid to all other personnel employed in teaching positions (as defined by Statistics Canada).<sup>2</sup> Of the factors that explain the differences observed in per-student spending for professors, two are particularly significant: the average number of students per professor, and the average salary of professors. Table 1.15 presents data on the average salary of full-time professors.<sup>3</sup>

In 2004-2005, the average salary of professors in Québec (\$90 609) was 8% higher than in the Atlantic Provinces (\$83 616), but 4% and 7% lower, respectively, than in Ontario (\$94 720) and Western Canada (\$97 092). However, it should be noted that the cost of living is lower in Québec than the average for the rest of Canada (about 10% lower in 2004-2005).

It should also be noted that, although the average salary of professors in Québec is lower than in Ontario (by 4% in 2004-2005), the per-student cost of professors is still higher in Québec (by 12% in 2004-2005). This is primarily because the average number of students per professor (in full-time equivalents) is lower in Québec than in Ontario.

It is difficult to obtain comparable data on the student-professor ratio in universities because of differences in the information systems relating to part-time professors. However, part-time professors (including lecturers) must be included in the calculation of student-professor ratios because they are responsible for much of the teaching in universities (slightly more than 50% in Québec). Depending on the hypotheses used to convert part-time professors into full-time equivalents, the differences between the student-professor ratio in Québec and Ontario may be larger or smaller, but the data always indicates that, in recent years, the average number of students per professor has been lower in Québec than in Ontario.<sup>4</sup> This difference was particularly pronounced in 2003-2004 and in 2004-2005, in part because of Ontario's double cohort.<sup>5</sup>

The salary costs of university professors in Québec are slightly higher than in the rest of Canada.

- 2. Employee benefits are not included in the total payroll used for this calculation.
- 3. Average salary includes basic salary as well as additional fees paid for administrative functions.
- According to the Council of Ontario Universities, the average number of students per professor in Québec is lower than in Ontario (see Ontario Universities–2004; Resource Document, July 2004, Tables 8.5 and 8.6).
- 5. The double cohort refers to students who began Grade 11 and Grade 12 in September 2001, and who completed their secondary education at the same time in 2003. Therefore, a large number of students entered university in 2003-2004, which resulted in a larger class size.

<sup>1.</sup> The calculation of per-student spending for professors is based on a standard method for counting student enrollments in all the provinces, as follows: parttime enrollments are divided by 3.5 to convert them into full-time equivalents, and are then added to the full-time enrollments.

#### Table 1.15

Average salary of full-time university professors: Québec and the other regions of Canada (in current dollars)

	1990- 1991	1994- 1995	1998- 1999	2000- 2001	2003- 2004	2004- 2005°
Québec	65 284	72 435	74 566	78 300	87 347	90 609
Canada, excluding Québec	66 817	73 549	76 838	81 151	90 424	93 921
Atlantic Provinces Ontario Western Canada	59 826 68 763 67 267	63 231 76 164 74 549	67 001 78 704 78 729	70 067 83 234 83 263	79 708 91 787 93 117	83 616 94 720 97 092
Canada	66 464	73 268	76 284	80 467	89 709	93 111

e: Estimates



#### Graph 1.15 Average salary

of university research professors: Québec and the other regions of Canada (in current dollars)

# 1.16 Student Financial Assistance and Tuition Fees

In Québec, financial assistance is available to students in full-time postsecondary education and in secondary-level vocational training programs. The loans and bursaries awarded under Québec's student financial assistance program are intended to supplement the contribution of the student and, where applicable, of his or her parents, sponsor or spouse: responsibility for the cost of education lies with them first and foremost. Government assistance covers the difference between the allowable expenses and the contribution of the student and, where applicable, of his or her parents, sponsor or spouse.

In 2005-2006, 27.7% of full-time students in secondary vocational training, 26.6% of full-time college students and 41.3% of full-time university students received assistance. A total of 132351 students benefited from the Loans and Bursaries Program. Of these, 51 288 received only a loan, 79 841 received a loan and a bursary, and 1 222 received only a bursary. A total of \$495.4 million was granted in the form of loans and \$302.9 million, in bursaries.

In 2005-2006, of the university students who received financial assistance, 36.6% obtained only a loan, which averaged \$3748, whereas 63.4% obtained a loan and a bursary totalling an average of \$8323. Those who received a loan and a bursary obtained on average slightly less than half of the assistance in the form of a bursary.

A look at the historical data on the breakdown of financial assistance awarded to Québec students attending university shows that the portion of assistance granted in the form of loans and bursaries fluctuated between 1990 and 2005 (Table 1.16b). In 2005-2006, loans accounted for 61.2% of the total assistance awarded and bursaries, 38.8%. Assistance in the form of bursaries is expected to increase in 2006-2007.1

In 2005-2006, upon completion of their undergraduate studies, Ouébec students who had received loans owed on average \$10612. The average debt for graduate studies was \$13810 and for postgraduate studies, \$19265.

Student loans contracted for college and undergraduate studies averaged \$14231 in 2005-2006; for college through to graduate studies, \$22 697; and for college through to postgraduate studies, \$31,335.

It is important to note that debt levels for Québec students are significantly lower than those for students in the rest of Canada. This can be explained in part by the fact that, on average, Québec awards more bursaries than the other provinces, as well as the fact that Ouébec's tuition fees are the lowest in Canada.

For example, tuition fees in Québec universities in 2006-2007 were 38% of the amount charged in the rest of Canada, fees for Québec residents having remained frozen for a number of years. While there were major increases between 1990-1991 and 1994-1995, tuition fees for Ouébec residents are once again frozen.<sup>2</sup> The gap between Québec and the rest of Canada has therefore once again begun to widen, and in 2006-2007, tuition fees in the rest of Canada (\$5046) were 2.6 times higher than in Québec (\$1916).

In 2006-2007, average tuition fees were \$1916 in Ouébec and \$5046 in the rest of Canada.

<sup>1.</sup> Following the agreement concluded with student federations in the spring of 2005. the Minister agreed to return loans to 2003-2004 levels. This is primarily why the portion of assistance awarded in the form of bursaries in 2005-2006 and in 2006-2007 increased.

<sup>2.</sup> See Note 1 at the bottom of Table 1.16b.

#### Table 1.16a

Average tuition fees for full-time undergraduate university students: Québec and the other regions of Canada (in current dollars)

## Table 1.16b

Proportion of financial assistance given to Québec university students in the form of loans and bursaries (%)

	1989- 1990	1991- 1992	1995- 1996	2000- 2001	2005- 2006 <sup>p</sup>	2006- 2007 <sup>p</sup>
Québec <sup>1</sup>	519	1 311	1 703	1 819	1 900	1 916
Canada, excluding Québec	1 537	1 842	2 603	3 917	4 881	5 046
Atlantic Provinces Ontario Western Canada	1 728 1 561 1 409	2 075 1 818 1 780	2 821 2 518 2 639	4 014 4 256 3 305	5 082 4 933 4 704	5 312 5 160 4 735
Canada	1 271	1 706	2 384	3 447	4 211	4 347
	1990- 1991	1995- 1996	2000- 2001	2003- 2004	2004- 2005	2005- 2006
loans	59.4	66.4	59.3	50.4	69.5	61.2
Bursaries	40.6	33.6	40.7	49.6	30.5	38.8

p: Preliminary data

In Québec, as of the fall of 1997, Canadian students not residing in Québec must pay an additional amount that has been taken into account in the calculation of the average tuition fees (Statistics Canada data). This explains the increase in tuition fees in recent years, despite the freeze on tuition for Québec residents. Tuition fees for Québec residents are \$1668.

## Graph 1.16

Average tuition fees for full-time undergraduate university students: Québec and the other regions of Canada (in current dollars)



# 1.17 Funded and Sponsored Research in Universities

The amount of funding through grants and research contracts I allocated to universities almost doubled from 1994-1995 to 2004-2005, going from \$586.6 million to \$1.383 billion. The major increase in the amount allocated to university research from 2002-2003 to 2004-2005 requires some explanation. Two factors contributed significantly to these increases: one was the federal government's payment of indirect costs and the recording of these grants in the Système sur la recherche universitaire (SIRU). The second major change involves the inclusion in the SIRU, in the past two years, of grants awarded by the Canada Foundation for Innovation (CFI) and its partners, for university research infrastructures. Before this, only grants for equipment and from the New Opportunities Fund were recorded. Because of these two factors, in 2004-2005, the amount allocated to university research increased by \$122.1 million; this amount is not taken into account in the following analysis.

In the six-year-period ending in 2004-2005, the amount allocated to research rose by 9.8% annually. This spectacular increase can be explained in large part by the investments of the Québec and Canadian governments in CFI projects. During the same period, CFI grants rose by 35.4% annually, from \$50.2 million to \$309.9 million. The amount of funding per research professor rose from \$90 006 to \$140 597,<sup>1</sup> representing an average increase of 9.4%.

From 1994-1995 to 2001-2002, the contribution of the Québec government represented 24.0% of total contributions to university research. The two following years, its contribution exceeded 27%, but dropped to 23.4% in 2004-2005. Between 1999-2000 and 2004-2005, the average increase was 9.9%.

During the same six-year period, the Canadian government's contribution1 increased on average 12.8% per year. In 1999-2000, it represented 38.2% of total contributions, compared with 44.9% in 2004-2005. Contributions from the Canadian private sector grew an average of 6.5% per year from 1999-2000 to 2004-2005.

In 2004-2005, 77.1% of grants and research contracts were awarded in the fields of health sciences (29.6%), pure sciences (30.8%) and applied sciences (16.7%). Next came social sciences (6.6%), business administration (2.3%) and education (1.6%).

Health sciences received 41.9% of its grants and research contracts from the Canadian government, 17.6% from the Québec government and 29.0% from the Canadian private sector. The federal government also funded 46.0% of the research in pure sciences, compared with 26.0% for the Québec government and 19.8% for the Canadian private sector. In applied sciences, the proportions were 52.9% for the federal government, 18.6% for the Québec government and 20.3% for the private sector.

Funding for research in education varied between \$12.1 and \$22.8 million from 1999-2000 to 2004-2005. The average annual growth was 11.1%.

Since 2001-2002, the amount allocated to university research has exceeded \$1 billion, primarily because of the grants awarded by the CFI and its financial partners. During this four-year period ending in 2004-2005, the average increase in the amount allocated to research was 8.0%.

Excludes grants from the FCI and its partners for infrastructures and grants for direct costs from the federal government.

Table 1.17 Funded and sponsored research according to		1994- 1995	1997- 1998	1999- 2000	2002- 2003	2003- 2004	2004- 2005			
the source of funding	Grants and research cont	Grants and research contracts (in millions of dollars), <sup>1</sup> by source								
and per research	Government of Canada	234.3	210.6	275.4	449.4	643.2	649.1			
professor	Government of Québec	141.5	143.5	167.7	293.9	372.1	337.5			
	Canadian private sector	132.1	165.3	180.8	215.7	232.9	268.8			
	Other sources	78.7	84.8	96.7	128.2	138.7	127.9			
	Total	586.6	604.5	720.5	1 088.0	1 386.8	1 383.3			
	Number of research professors <sup>2</sup>	8 906	8 144	8 005	8 460	8 654	8 970			
	Amount per research professor (\$)	65 866	74 226	90 006	128 605	160 250	154 214			

 This refers to all research receiving direct assistance (grants, contracts, sponsorships, etc.) from either the university itself or outside organizations. Included are research projects conducted under the supervision of university research professors, for which funds have been put into specific accounts managed by the financial services or accounting department of the university, a hospital or a universityaffiliated centre (as defined by the Système d'information sur la recherche universitaire [SIRU]).

2. This refers to career professors who occupy permanent positions in Québec universities, regardless of whether they are currently involved full-time in teaching-related activities or on sabbatical or career development leave. They may also assume certain administrative tasks. For example, department heads, deans and assistant deans often continue to be active in teaching or research. However, our definition of research professor excludes administrators of services (library directors, registrars, etc.) and senior administrators (rectors and vice-rectors). (Source: Ministère de l'Éducation, du Loisir et du Sport and Conference of Rectors and Principals of Québec Universities, Enquête sur le personnel enseignant.)



# 2.1 School Life Expectancy

Achild who began elementary school in 2005-2006 can Aexpect to spend 15.6 years in the education system.<sup>1</sup> Since 1988-1989, 0.8 years of schooling have been added for male students, and 1.5 years for female students. School life expectancy has not improved from the 15.7 years observed in 1993-1994. For male students, it has even decreased by 0.4 years since then, standing now at 15.0 years. In 2004-2005, young people in Québec could expect to spend 15.6 years in school, or about the same amount of time as young people in France.<sup>2</sup>

A breakdown by level of education reveals that all increases since 1987-1988 are attributable to either adult education or postsecondary education. More than half of the additional schooling is a result of college and university studies. At the elementary and secondary levels, schooling rose by 0.44 years, resulting from an increase of 0.66 years in the adult sector and a drop of 0.22 years in the youth sector.

At the elementary and secondary levels, the actual duration of schooling more or less corresponds to the projected length of studies. This is not surprising given that enrollment at these levels of education is virtually universal and compulsory until almost the end of secondary school. The reason why the average duration of schooling is less than the length of programs at the college and university levels is primarily because not all students go on to postsecondary education.

School life expectancy does not necessarily correspond to the number of years of study begun and successfully completed because grades repeated are included in the average duration. The slight decline since 1992-1993 in the duration of schooling at the elementary and secondary levels can be explained by the decrease in the number of years that are repeated (see Section 2.7). At the elementary and secondary levels, male students attend school slightly longer than female students (12.0, compared with 11.9 years) precisely because they have more difficulty. At the college and university levels, women tend to stay in school longer because more of them enroll in postsecondary education than men (see Sections 2.8 and 2.10). Women attend postsecondary school for an average of 4.3 years, compared with 3.0 years for men.

From elementary to university education, in 2005-2006, school-aged Quebeckers could expect to stay in school for an average of 15.6 years.

<sup>1.</sup> Technically speaking, school life expectancy for a school year is equal to the sum of the schooling rates (or school attendance rates) for full-time studies (or the equivalent) per year of age. A schooling rate is equivalent to the average number of years of schooling per person. The sum of the rates per age indicates the hypothetical duration of studies for a child who begins elementary school and who, throughout his or her progression through school, is in the schooling situation observed for a given year at various ages.

Ministère de l'Éducation nationale, de l'Enseignement supérieur et de la Recherche, Direction de l'évaluation et de la prospective, L'état de l'école, Paris, Vol. 16, October 2006.

Table 2.1 School life expectancy for a child entering		1987- 1988	1988- 1989	1993- 1994	1998- 1999	2004- 2005	2005- 2006
elementary school,	All levels of education by gende	r					
by gender and level of education (in years)	Male Female <b>Total</b>	N/A N/A <b>14.5</b>	14.2 14.8 <b>14.5</b>	15.4 16.0 <b>15.7</b>	15.1 15.9 <b>15.5</b>	15.0 16.3 <b>15.6</b>	15.0 16.3 <b>15.6</b>
	Both genders according to level	l of educati	on				
	Elementary (youth sector) Secondary (youth sector) Elementary and secondary (adult sector)	6.14 5.09 0.30	6.16 5.03 0.23	6.12 5.01 0.84	6.08 5.00 0.88	6.02 4.99 0.96	6.00 5.01 0.96
	College University	1.74 1.28	1.74 1.34	2.07 1.64	1.99 1.53	1.88 1.79	1.86 1.82

N/A: Data not available



Table 2.1

School life expectancy for a child entering elementary school (in years)



# 2.2 Enrollment in Preschool Education

Enrollment in kindergarten for 5-year-olds<sup>1</sup> has varied between 97% and 99% for a number of years. There is no significant difference between the enrollment of boys and girls in either kindergarten for 5-year-olds or kindergarten for 4-year-olds. In the past, enrollment in kindergarten for 4-year-olds varied between 6% and 9%; this rate has been significantly higher since 1994-1995 because children in Passe-Partout play groups are now included, and it stood at 19.9% in 2005-2006.

For a long time, children enrolled in part-time kindergarten for 5-year-olds<sup>2</sup> accounted for approximately 87% of all students in kindergarten, and this rate was the same for boys as for girls. In 1997-1998, with the implementation of full-time kindergarten, the situation was completely reversed as almost all boys and girls in kindergarten for 5-year-olds started to attend on a full-time basis.

Around the world, daycare centres, kindergartens, regular schools and families participate to varying degrees in the education of young children. In Québec, a relatively large portion of educational activities are entrusted to daycare centres, while the official education system becomes involved later in the child's life. Thus, in Québec, 5-year-olds are about as likely to attend kindergarten or elementary school as children in member countries of the Organisation for Economic Co-operation and Development (OECD).<sup>3</sup> In 2003-2004, virtually all developed countries had universal access to school for 5-year-olds. On the other hand, with respect to educational activities for 4-year-olds, Québec is far behind those countries in which the enrollment of 4-year-olds is almost identical to that of 5-year-olds. Similarly, in Québec and the rest of Canada, 3-year-olds do not attend school; this is a rare exception among OECD countries. Moreover, the majority of children enrolled in kindergarten for 4-year-olds in Québec are in a Passe-Partout play group, which means that they are not really part of the school system.

Children with handicaps or with learning or adjustment difficulties account for 2.0% of students in kindergarten for 5-year-olds. For girls, the proportion was 1.2%, but more than double (2.8%) for boys.

In 2005-2006, 97.8% of all eligible children attended kindergarten for 5-year-olds, almost all of them on a full-time basis.

<sup>1.</sup> This refers to the number of children in kindergarten for 5-year-olds (regardless of their age) in proportion to the population of 5-year-olds, or 4-year-olds in the case of kindergarten for 4-year-olds. Very few children who are not 5 years of age on September 30 are enrolled in kindergarten for 5-year-olds, and even fewer children in kindergarten for 4-year-olds are not 4 years of age. Variations in the estimates of the population aged 4 or 5 may affect the calculation of these rates, probably more so than any other factor.

<sup>2.</sup> In kindergarten for 5-year-olds, part-time attendance means five half-days per week and full-time attendance, five full days per week. In kindergarten for 4-year-olds, part-time attendance means one to four half-days per week and fulltime attendance, five half-days per week.

<sup>3.</sup> The OECD calculates net enrollment rates, that is, the proportion of children of a given age who attend kindergarten or elementary school. These two levels are combined, since there are major differences among countries. The net enrollment rate does not take into account whether children attend school part-time or full-time, or their hours or days of attendance. Here too, major differences can be seen among countries.

Proportion of children enrolled in kindergarten for 4-year-olds and for 5-year-olds (%)

	1982- 1983	1992- 1993	2002- 2003	2003- 2004	2004- 2005	2005- 2006
Kindergarten for 4-year-olds	8.0	9.2	19.6	19.1	19.9	19.9
Passe-Partout play group Other categories	_		11.0 8.5	11.1 8.1	11.6 8.3	11.7 8.1
Kindergarten for 5-year-olds	97.4	96.7	98.1	97.2	98.1	97.8
Full-time <sup>1</sup> Part-time <sup>2</sup>	_	9.2 87.6	98.1 0.0	97.2 0.0	98.1 0.0	97.8 0.0

-: Not applicable

1. Full-time: five full days

2. Part-time: five half-days



#### Graph 2.2 Net enrollment rates for 4-year-olds and

for 4-year-olds and 5-year-olds: Québec and various OECD countries, 2004-2005 (%)

# 2.3 Enrollment in Secondary General Education – Youth Sector

Enrollment in Secondary V stood at 75.8% in 2005-2006. Enrollment in Secondary IV was 86.9%, a level never previously achieved, which means that enrollment in Secondary V will increase in 2006-2007.

From a more historical perspective, Graph 2.3 shows that enrollment in Secondary IV and V increased appreciably in the 1980s. This trend can be explained by the fact that admission to vocational training was delayed to ensure that students spent an extra year in general education. On the other hand, the drop observed in 1985-1986 (in Secondary IV) and in 1986-1987 (in Secondary V) was due to the raising of the pass mark.<sup>1</sup> There was a temporary decline in student retention, but it was not long before an upward trend took hold once again.

Enrollment in Secondary I is virtually universal;<sup>2</sup> in 2005-2006, it was 99.8%. In 2005-2006, 98.6% of young people were enrolled in Secondary II, and 93.7% in Secondary III.

In 2005-2006, differences in enrollment between female and male students appeared in Secondary II, where female students were ahead of the male students by almost 4 percentage points. The gap widened in Secondary IV to 7 percentage points in favour of the female students, to stand at 12 percentage points in Secondary V. In 2005-2006, in general education in the youth sector, enrollment in Secondary V was 75.8%.

<sup>1.</sup> The new, higher pass mark was applied to students entering secondary school in 1982-1983.

Some young people are not educated in the official education system. They may
receive their schooling in reception centres, in schools that are not legally recognized or at home. This year, the rate slightly exceeds the theoretical maximum of
100%, no doubt attributable to an underestimation of Québec's population.

Proportion of young people enrolling in secondary general education in the public and private systems combined, by gender (%)

	1982-	1992-	2002-	2003-	2004-	2005-
	1983	1993	2003	2004	2005	2006
<b>Secondary I</b>	<b>99.8</b>	<b>97.8</b>	<b>99.0</b>	<b>98.7</b>	<b>99.8</b>	<b>99.8</b>
Male	99.5	97.7	98.7	98.2	99.6	99.6
Female	100.1	97.9	99.4	99.2	100.0	100.0
Secondary II	<b>96.0</b>	<b>96.7</b>	<b>96.5</b>	<b>97.8</b>	<b>97.3</b>	<b>98.6</b>
Male	95.0	96.1	95.2	97.0	96.4	98.2
Female	97.1	97.4	98.0	98.6	98.3	98.9
<b>Secondary III</b>	<b>86.3</b>	<b>91.8</b>	<b>92.0</b>	<b>92.0</b>	<b>94.0</b>	<b>93.7</b>
Male	82.5	90.0	90.6	89.8	91.8	91.9
Female	90.3	93.9	93.4	94.4	96.2	95.6
<b>Secondary IV</b>	<b>64.1</b>	<b>84.8</b>	<b>84.1</b>	<b>84.9</b>	<b>85.7</b>	<b>86.9</b>
Male	59.9	81.7	80.8	81.6	82.0	83.4
Female	68.6	88.0	87.5	88.3	89.6	90.6
<b>Secondary V</b>	<b>56.7</b>	<b>73.3</b>	<b>74.1</b>	<b>73.8</b>	<b>75.1</b>	<b>75.8</b>
Male	53.6	68.5	67.9	68.4	69.6	69.9
Female	60.0	78.3	80.5	79.5	81.0	82.0

Note: Students enrolled in vocational training are not included.



Proportion of young people enrolling in Secondary IV and V in general education, public and private systems combined (%)



# 2.4 Enrollment in Secondary Vocational Education – Youth and Adult Sectors

The proportion of young people under the age of 20 enrolling in vocational training programs was 17.5% in 2005-2006. Since 1999-2000, enrollment of students already holding a Secondary School Diploma (SSD) has been relatively stable, and varied between 9% and 10%; it stood at 9.1% in 2005-2006.

Since short vocational programs were phased out in 1989-1990, most students who would normally have opted for these programs in the past are now enrolled in individualized paths for learning or, more likely still, in work skills and life skills education programs, which are a part of general education. Enrollment of students without diplomas was 8.5% in 2005-2006 and represented 48% of all people under the age of 20 enrolling in a vocational training program.

Vocational training programs attract more male than female students. Thus, in 2005-2006, 22.4% of male students opted for this path, compared with 12.5% of female students. This situation applies equally to students who had a diploma and to those who did not. This is the opposite of what has been occurring in general education in the youth sector (see Section 2.3), where female students tend to stay in school longer.

In 2005-2006, 17.5% of young people under the age of 20, more than half of whom already held an SSD, enrolled in vocational training.

Enrollment in vocational training of students under the age of 20, youth and adult sectors combined (%)

	1989-	1994-	1999-	2003-	2004-	2005-
	1990	1995	2000	2004	2005	2006
TOTAL	14.4	12.8	16.4	17.4	17.8	17.5
Students without an SSD	8.4	5.1	6.6	8.5	8.5	8.5
Students with an SSD	6.0	7.8	9.8	8.9	9.3	9.1
MALE	18.0	15.1	19.6	21.9	22.5	22.4
Students without an SSD	11.5	6.6	8.9	11.8	11.6	11.5
Students with an SSD	6.5	8.5	10.8	10.1	10.9	10.9
FEMALE	10.6	10.5	13.0	12.7	12.9	12.5
Students without an SSD	5.0	3.4	4.2	5.0	5.3	5.3
Students with an SSD	5.5	7.1	8.9	7.7	7.6	7.2

Graph 2.4

Enrollment in vocational training of students under the age of 20, youth and adult sectors combined (%)

with



# 2.5 Enrollment in Secondary General Education – Adult Sector

 $S({\rm SSD})$  in the youth sector are not all dropouts. Many of them choose to pursue their studies in the adult sector.

In 2005-2006, 17.0% of school-aged youth under 20 went directly from the youth sector to the adult sector in general education without interrupting their studies. In 1984-1985, the rate was only 1.3%; there has therefore been a thirteen-fold increase. In view of this, the relatively low rate of 5.0% observed in 1992-1993 (see Graph 2.5) can be attributed to the changes made in the funding of educational activities for adult students in general education; at the time, this funding was part of a restricted envelope.<sup>1</sup> The increase observed in 1993-1994 (from 5% to 9%) was undoubtedly due in part to the fact that the envelope was once again opened for students 16 to 18 years of age.

An analysis of the proportion of students who, after interrupting their studies, return to school in general education in the adult sector reveals that the number of students aged 15 to 19 who returned to the adult sector was higher, until 1986-1987, than the number of students who transferred directly from the youth sector. Since then, however, the latter path has grown in popularity, and in 2005-2006, accounted for more than three quarters of all new enrollments of students under 20 years of age.

The adult sector does not limit its services to providing students leaving the youth sector with the opportunity to earn their diploma through an alternative system. Adult education is also open to those who already have a secondary school diploma but wish to add to their education. And even among students without a diploma who enroll in the adult sector, some simply wish to meet a short-term need, such as acquiring the knowledge or skills taught in a specific course. In 2005-2006, 17.0% of students under 20 years of age transferred directly from the youth sector to the adult sector, an increase from the previous year.

As a result, the school boards had to encourage students to stay in the youth sector (whose envelope is always open), since funding for the adult sector was reduced in 1992-1993.

Enrollment in general education in the adult sector of students under the age of 20 without a secondary school diploma, by gender (%)

	1984- 1985	1994- 1995	2002- 2003	2003- 2004	2004- 2005	2005- 2006
Total	3.2	17.0	18.4	19.8	18.9	22.4
Uninterrupted studies <sup>1</sup> (directly from the youth sector)	1.3	11.7	13.9	15.1	14.4	17.0
Interrupted studies	2.0	5.3	4.5	4.6	4.5	5.4
Male	3.3	19.4	20.7	22.1	21.1	25.8
Uninterrupted studies <sup>1</sup> (directly from the youth sector)	1.4	13.7	15.7	16.9	16.2	19.5
Interrupted studies	1.9	5.8	5.1	5.2	4.9	6.3
Female	3.1	14.6	16.0	17.4	16.7	18.8
Uninterrupted studies <sup>1</sup> (directly from the youth sector)	1.1	9.7	12.0	13.3	12.6	14.3
Interrupted studies	2.0	4.9	4.0	4.1	4.1	4.5

1. Refers to students enrolled in the youth sector on September 30 of the preceding year.



Enrollment in general education in the adult sector of students under the age of 20 without a secondary school diploma (%)



# 2.6 Dropping Out of **Secondary School**

This section measures both official successful completion (graduation) and school attendance of those who have not yet received a diploma. The dropout rate is defined as the proportion of the population that does not attend school and has not obtained a secondary school diploma.

The dropout rate by age is obtained by measuring the proportion of the population with a secondary school diploma<sup>1</sup> by age, and the proportion without a diploma but still in school.<sup>2</sup> The two measurements are added together and deducted from 100.

Graph 2.6 shows the downward trend of the dropout rate since 1979. The increase observed in the 1980s is due to the raising of the pass mark, which made it more difficult to obtain a secondary school diploma (see Section 5.2). Results in recent years have been relatively stable.

The dropout rate in 2005 was 19.7% for 20-year-olds, 20.3% for 25-year-olds and 20.3% for 30-year-olds. An analysis of the data for a given age reveals that the dropout rate has declined considerably in the past 30 years: the rate for 17-year-olds went from 26.2% in 1979 to 10.5% in 2005, and the rate for 19-year-olds dropped from 40.5% to 19.7% during the same period.

Table 2.6 shows the difference in dropout rates for male and female students and indicates that women are less likely to drop out of school. In 1979, the gender gap was relatively small, but was somewhat more pronounced in 2005. For example, for 19-year-olds, the dropout rate for men in 2005 was almost half of what it was in 1979 (24.8% compared with 43.8%); for women, the rate in 2005 was almost one third of what it was in 1979 (14.4% compared with 37.2%). The situation of women has therefore improved more than that of men; this analysis also holds true for the other age groups in Table 2.6.

In 2005, 19.7% of 19-year-olds were without a secondary school diploma and were not attending school. This proportion was 40.5% in 1979.

<sup>1.</sup> The diplomas considered here are the Secondary School Diploma (SSD-including the Short Vocational Diploma and the Long Vocational Diploma), the Secondary School Vocational Certificate (SSVC), the Diploma of Vocational Studies (DVS) (known as the Secondary School Vocational Diploma [SSVD] prior to 1998), the Attestation of Vocational Specialization (AVS), the Attestation of Vocational Education (AVE) and certification for on-the-job training in a recycling facility.

<sup>2.</sup> At either the secondary or college level. It is possible-although less and less so in the past few years-for a person without a secondary school diploma to be accepted in college. Persons who enroll in university without a secondary school diploma are not taken into account here.

Dropout rate by age and gender (%)

	1979	1989	1999	2003	2004	2005
17-year-olds	26.2	18.5	10.2	11.6	11.0	10.5
Male Female	27.6 24.7	21.3 15.5	13.2 7.0	14.3 8.8	13.9 8.0	12.9 7.9
18-year-olds	35.7	23.3	16.6	16.8	17.4	16.8
Male Female	38.0 33.2	27.0 19.5	20.4 12.6	21.2 12.1	21.8 12.8	21.3 12.0
19-year-olds	40.5	27.0	19.6	18.2	18.9	19.7
Male Female	43.8 37.2	31.0 22.7	24.5 14.5	23.1 13.0	24.0 13.5	24.8 14.4



# 2.7 Academic Delay in Elementary and Secondary School – Youth Sector

A cademic delay may be observed when a student in a grade level is older than the age expected for this level.<sup>1</sup> It is difficult for students to catch up when they are experiencing this kind of delay, because they would have to skip a year later on, which is rare, especially when they have already had enough difficulties that they have had to be held back a year or more. This is why, as shown in Table 2.7 (in elementary school in 1983-1984, for example), the proportion of students experiencing academic delay increases with each grade level; essentially, each year more students experiencing delay are added to this group but none are ever removed.

In more recent years, this cumulative effect in the proportion of students experiencing academic delay has been less visible because students in the third year of a cycle in elementary school (who, by definition, are all behind) are counted with the students in the second year, thereby increasing the proportion of students experiencing academic delay (among the students in the second year of a cycle).

On the contrary, in secondary general education, the proportion of students experiencing academic delay appears to be declining with each grade level (see Table 2.7; in 1983-1984, the rate went from 33.4% for Secondary I to 25.2% for Secondary IV). This is a result of these students dropping out (who, instead of being counted as students experiencing delay, are no longer considered at all present in the school system) or transferring to vocational training or adult general education.

In more recent years, this explanation seems to be less applicable: there is a certain stability from one grade to the next (about 23% to 27%). And yet, if a cohort (for example, students enrolled in Secondary I in 2002-2003, in Secondary II the following year, in Secondary III in 2003-2004 and in Secondary IV in 2005-2006), the proportion of students experiencing academic delay goes from 27.5% to 27.4% to 26.5%, then to 23.1%. The rates decrease for the cohort because the students drop out or transfer to vocational training or adult general education.

Graph 2.7 shows the difference between girls and boys in terms of academic delay; more boys than girls are falling behind. For all elementary and secondary school students, the difference between boys and girls was 9 percentage points in 1983-1984. By 2005-2006, the gap had narrowed to 6 points. If secondary school students are considered in isolation (the proportion does not appear in Graph 2.7), 29.5% of boys were experiencing academic delay in 2005-2006, and girls, 20.7%, for a gap of 9 percentage points.

In 2005-2006, 16.5% of elementary and secondary school students were behind in their schooling.

<sup>11.</sup> This is the case if a student is older than 6 years of age (as of September 30) and enrolled in the first year of Elementary Cycle One, or older than 7 years of age and in the second year of Elementary Cycle One, as well as if a student is older than 12 years of age in Secondary I, and so forth. All students enrolled in the third year of a cycle at the elementary level are considered to be experiencing academic delay, regardless of their age.

Table 2.7 Proportion of students experiencing		1983- 1984	1993- 1994	2002- 2003	2003- 2004	2004- 2005	2005- 2006
by level of education	Iotal Flementary <sup>1</sup>	13.2	24.0 16.2	10.2	10.1	9.1	10.5 8.4
and grade level (%)	1 (or A) (or 1.1) 2 (or B-C) (or 1.2+) 3 (or D) (or 2.1) 4 (or E-F) (or 2.2+) 5 (or 3.1) 6 (or 3.2+)	6.5 9.2 11.3 14.3 16.1 22.4	8.6 12.5 15.9 17.9 20.2 21.6	2.6 9.8 9.0 13.0 13.2 15.4	2.9 9.7 8.2 11.9 12.3 14.5	2.7 9.1 7.5 10.5 10.4 13.3	2.0 8.9 7.4 10.3 9.3 11.2
	Secondary school	30.6	32.9	27.6	26.9	26.0	25.2
	1 2 3 4 5	33.4 30.4 29.4 25.2 33.5	36.8 32.6 33.1 30.1 30.4	27.5 28.5 29.2 26.6 25.4	27.7 27.4 28.0 25.9 24.6	27.2 27.2 26.5 24.4 23.4	26.2 26.6 26.6 23.1 22.2

1. Elementary grade levels were referred to as Elementary 1, 2, 3, 4, 5 and 6 until 2000-2001. In 2001-2002, elementary school was divided into three two-year cycles. Thus, A, B and C were used to refer to Cycle One, and D, E and F, to refer to Cycle Two. C and F were used for students who remained in a given cycle for more than the usual two years. The fifth and sixth years of elementary school had not yet been affected by the reform. Since September 2002, a two-digit notation has been used: for example, 1.1 represents Elementary Cycle One, first year; 1.2+ represents Cycle One, second (or third) year, and so on.

Graph 2.7 Proportion of elementary and secondary school students experiencing academic delay, by gender (%)



65

# 2.8 College Enrollment – **Regular Education**<sup>1</sup>

n 2005-2006, 59.6% of a generation of young Quebeckers went on to college. This is 4.1 percentage points lower than the rate observed in 1996-1997, just before the drop in the secondary school graduation rate and the tightening of the criteria for admission to CEGEP.<sup>2</sup>

College enrollment (regular education) rose by 22 percentage points between 1975-1976 and 1986-1987 (from 39.3% to 61.2%), followed by a drop of 5 percentage points in 1987-1988. In the six years thereafter, it rose by 10 percentage points, reaching a new high of 66.9% in 1993-1994. Since then, enrollment has dropped by 7.3 percentage points for all young Quebeckers.

Since the late 1970s, changes in college enrollment can be largely explained by trends observed at the secondary level in the youth sector. There is a close correlation between obtaining a secondary school diploma in general education in the youth sector or before the age of 20 in the adult sector. and enrolling in college. This correlation would seem to indicate that the majority of general education graduates, as well as a certain number of vocational training graduates. eventually go on to college.

Over a period of 15 years or so, the gender gap in college enrollment has widened steadily. Although rather negligible in the mid-1970s, the difference reached 19.0 percentage points in favour of women in 2005-2006, with only women having regained any ground in recent years.

College enrollment also varies depending on the type of education involved. The probability of enrolling in pre-university education dropped from 37.9% in 1995-1996 to 35.5% in 2005-2006, after peaking at 43.9% in 1992-1993. The probability of enrolling in college technical training declined from 21.6% to 18.1% from 1986-1987 to 1989-1990, returning to 23.2% in 1992-1993 and then settling at 16.4% in 2005-2006.

In recent years, the only regular education program where enrollment has increased is Explorations. In 1993-1994, 4.9% of students undertook college studies in this type of program; in 2005-2006, the figure was 7.7%, which, out of a total of 59.6%, represents more than one in ten new enrollments.

In 2005-2006, the college enrollment rate stood at 59.6%, which is a return to the situation that prevailed six years ago.

<sup>1.</sup> The figures mentioned here include only students enrolled for the first time in programs leading to a Diploma of College Studies (DCS) in regular education.

<sup>2.</sup> Since the fall of 1997, students who enroll in CEGEP must not only have their Secondary School Diploma (SSD), but must also have successfully completed the following courses: Secondary V language of instruction and second language, Secondary IV history and physical science, and Secondary V mathematics or comparable Secondary IV mathematics.

Full-time or part-time enrollment in regular education in public or private colleges, by gender and type of education (%)

	1975- 1976	1985- 1986	1995- 1996	2003- 2004	2004- 2005	2005- 2006°
Male	38.9	52.0	55.8	48.2	49.8	50.3
Pre-university education Technical training Explorations	25.4 13.4 -	34.2 17.7 -	31.5 18.5 5.9	27.1 13.6 7.5	28.7 13.7 7.4	28.9 13.7 7.6
Female	39.7	64.9	71.1	68.0	69.2	69.3
Pre-university education Technical training Explorations	22.5 17.1	41.0 23.9 -	44.7 20.3 6.1	41.9 19.0 7.1	42.2 19.4 7.6	42.4 19.2 7.7
Total	39.3	58.3	63.3	57.9	59.3	59.6
Pre-university education Technical training Explorations	24.0 15.3 -	37.5 20.8 –	37.9 19.3 6.0	34.3 16.2 7.3	35.3 16.5 7.5	35.5 16.4 7.7

e: Estimates

-: Not applicable

# Graph 2.8

Full-time or part-time enrollment in regular education in public or private colleges, by gender (%)





# 2.9 Immediate Transition From College to University

The main objective of college pre-university education is to prepare students for university. In the fall of 2005, 77.9% of the class of 2004-2005, aged 24 or under with a Diploma of College Studies (DCS) from a pre-university program,<sup>1</sup> were enrolled full-time in university.<sup>2</sup> Also in the fall of 2005, 77.8% of female graduates of pre-university education were enrolled full-time in university, a slightly lower percentage than that of men in the same situation (78.2%).

Between 1993-1994 and 1998-1999, the proportion of pre-university education graduates who went on to university without interrupting their studies was between 78.6% and 84.0%. The rate decreased from 84.0% in 1998-1999 to 75.6% in 2000-2001. Although the method used to estimate the proportion of graduates enrolled in university immediately after completing college has changed somewhat since 2000, the data indicates a slight increase in the following five years. After the fall of 2000, there was a significant increase in the proportion of college graduates who enrolled in university full-time, which went from 75.6% to 77.9% in the fall of 2005. For several years now, the rate has been hovering around 78.0%.

In the fall of 2005, 25.0% of students aged 24 or under who graduated from a technical DCS program in 2004-2005 were enrolled full-time in university the following year, which represents an increase since the fall of 2000. This result is comparable to that observed the preceding year and confirms that more technical training graduates now go on to university; indeed, the proportion of these graduates going on to university has been close to 20% in the past four years, the highest since 1983-1984, despite the fact that these graduates would have little difficulty finding a job. This can be partly explained by the increase in the number of DCS-BAC programs<sup>3</sup> being offered.

More male graduates aged 24 or under with a DCS in a technical program have been enrolling full-time in university applied sciences (electrical engineering, mechanical engineering and computer science among others) and administrative sciences (especially business administration). Women in the same age group normally enroll in health sciences (mostly nursing sciences and nursing), administrative sciences (especially business administration and accounting) and social sciences (a number of fields, including social services). The 5.0-point increase in the proportion of female graduates from a technical program going on to university in 2004-2005,<sup>4</sup> can be explained in large part by the transition of graduates from the nursing techniques program (180.A0) to the university nursing program, which also accounts for the overall increase in the proportion of college graduates going on to university this same year. The proportions remained steady in 2005-2006.

Of the class of 2004-2005, 77.9% of pre-university education graduates and 25.0% of technical training graduates went on to study full-time at university in the fall of the year following their graduation from college.

- 2. In 2001, the method used to estimate the proportion of college graduates going on to university without interrupting their studies was revised. From 1983-1984 to 1999-2000, estimates were based on the results of the Relance surveys conducted by the Ministère de l'Éducation, du Loisir et du Sport, which present the situation of graduates of pre-university and technical programs as of March 31 following their year of graduation. In 2000-2001, the proportion of college graduates going on to university without interrupting their studies was based on administrative data from the Système de gestion des données sur l'effectif universitaire (CDEU). For the purpose of comparing this data with data from the Relance surveys, the GDEU system was used to calculate the proportion of students who earned a college diploma in 2000-2001 and who were enrolled full-time in a Québec university in the fall of 2000. Although the data is from different sources, the proportion obtained using both methods are a satisfactory representation of the situation observed between 2000-2001 and 2004-2005.
- 3. A university and college can conclude an agreement on a DCS-BAC program that allows students to avoid course content duplication by recognizing a certain number of college courses in university. The total length of studies is generally shortened by a year. Certain bridges also exist that allow for the recognition of certain college courses in university.
- Fall of 2004 is when the first cohort of students enrolled in the five-year integrated nursing program went from college to university; this program was introduced in the fall of 2001 in Québec's college system.

This refers to students who obtained a DCS between the months of September and August of a given school year. Education Statistics Bulletin 28 presents the figures for the immediate transition from college to university in 2000-2001. It can be consulted on the Ministère's Web site at the following address: <http://www.mels.gouv.qc.ca/stat/Bulletin>.

Proportion of college graduates (24 years old or under) enrolling full-time<sup>1</sup> in university without interrupting their studies, by type of education and gender (%)

	1983-	1993-	2002-	2003-	2004-	2005-
	1984	1994	2003	2004	2005	2006
Pre-university education	86.0	79.9	77.7	78.1	77.4	77.9
Male	87.7	79.0	79.3	78.4	77.8	78.2
Female	84.3	80.5	76.7	77.9	77.1	77.8
Technical training	17.4	18.6	20.8	22.2	24.9	25.0
Male	21.9	21.0	25.9	28.8	28.1	28.5
Female	14.4	17.1	17.3	17.8	22.8	22.9

1. The statistics produced between 1983-1984 and 1999-2000 are based on government Relance surveys. They represent the proportion of college graduates who, on March 31 of the reference year, were not employed and were enrolled in university either part-time or full-time. Since 2001, statistics are from the Système de gestion des données sur l'effectif universitaire (GDEU). The statistics for 2000-2001 to 2005-2006 represent the proportion of students who earned a college diploma between 1999-2000 and 2004-2005 and who were enrolled full-time in a Québec university the following fall. In the calculation of the indicator based on the Relance surveys, the inclusion of college graduates enrolled part-time in university and the reference date used (March 31) combined to produce a slightly higher result than that of the new indicator used since 2000-2001.



# 2.10 University Enrollment

This section concerns  $enrollment^1$  in programs leading to a university degree at the bachelor's, master's or doctoral level. Enrollment in certificate programs and nonprogram studies is not measured here.

In 1992-1993, the proportion of a generation enrolled for the first time in programs leading to a bachelor's degree increased by one third over an 8-year period, climbing to 39.7%, from 30.1% in 1984-1985. From 1992-1993 to 1997-1998, there was a decline of 5.8 percentage points in enrollment in bachelor's programs, and the rate fell to 33.9%. A similar decline was observed in enrollment in preuniversity college programs after 1992-1993 (see Section 2.8). Thereafter, the rate began to rise again, reaching 42.0% in 2006-2007. Women posted an even higher rate of enrollment in programs leading to a bachelor's degree at 49.4%.

From 1984 to 2006, only women showed veritable gains in enrollment in bachelor's programs: the rate increased by 18.1 percentage points, whereas men (34.8%) were 5.8 percentage points above the level observed in 1984-1985. The gender gap was 14.6 percentage points, whereas it had been 2.3 percentage points 22 years earlier.

With respect to master's programs, enrollment rose in recent years to 11.3% after having dropped in 1997-1998. Here too, gains were more favourable for women, whose enrollment rate was 11.8% in 2006-2007, compared with 10.9% for men. In 1984-1985, the difference was 1.5 percentage points in favour of men. At the master's level, women began showing definitive gains over men in 1993-1994. The overall increase in enrollment in master's programs between 1984-1985 and 2006-2007 was relatively greater than that observed at the bachelor's level.

The growing interest in doctoral studies is significant even though it applies to only a small portion of the population. Enrollment rose from 1.1% in 1984-1985 to 2.8% in 2006-2007. Men continue to enroll in doctoral studies in slightly greater numbers (3.0%) than women (2.5%), but the number of women enrolling at this level has increased more rapidly in the past 20 years.

In 2006-2007, the proportion of students enrolling in university was estimated at 42.0% for bachelor's programs, 11.3% for master's programs, and 2.8% for doctorate programs.

<sup>1.</sup> Since the data on new enrollments generally used for this indicator was unavailable at the time of writing, preliminary data on enrollments provided by the Conference of Rectors and Principals of Quebec Universities (CREPUQ) was used for the 2006-2007 figures. More specifically, the annual variation in new full-time enrollments in programs leading to a bachelor's degree was used to estimate enrollment for 2006-2007, on the basis of the most recent data observed, that is, in 2005-2006. Data for programs leading to a master's degree or doctorate was estimated on the basis of variations in enrollment in these programs.

Graph 2.10

degree (%)

Enrollment in programs leading to a university degree, by gender (%)

	1984-	1992-	1997-	2004-	2005-	2006-
	1985	1993	1998	2005	2006	2007º
Bachelor's programs						
Male	29.0	34.8	28.9	33.9	34.4	34.8
Female	31.3	44.9	39.1	48.7	49.3	49.4
Total	30.1	39.7	33.9	41.1	41.7	42.0
Master's programs						
Male	7.5	8.5	8.4	11.4	11.1	10.9
Female	6.0	8.3	8.9	11.6	11.6	11.8
Total	6.8	8.4	8.7	11.5	11.3	11.3
Doctoral programs						
Male	1.4	2.3	1.9	3.1	2.9	3.0
Female	0.8	1.4	1.8	2.6	2.4	2.5
Total	1.1	1.9	1.9	2.9	2.7	2.8

e: Estimates (See Note 1 at the bottom of the text.)


# 2.11 Training of Researchers

Students enrolled in a program leading to a doctorate are the most likely to go into university research. In the fall of 2005, these students totalled 11 968, a peak since 1990.

More than three quarters of enrollment in doctoral programs is concentrated in social sciences, applied sciences, pure sciences and health sciences. In 2005, 28.8% of doctoral candidates were in social sciences, 20.7% in applied sciences, 14.9% in pure sciences and 12.6% in health sciences.

Men accounted for the majority of the students enrolled in a doctoral program (53.5% in the fall of 2005, compared with 46.5% for women). In 1990, the percentages were 64.7% and 35.3%, respectively. From 1990 to 2005, the increase in the number of women enrolled in doctoral programs (124%) was much greater than it was for men (41%).

In 2005, 80.4% of the men in doctoral programs were enrolled in applied sciences (30.0%), social sciences (22.8%), pure sciences (17.6%) and health sciences (9.9%). The number of men enrolled in business administration has increased the most since 1990, that is, by 181.4%, while the number of men enrolled in education and literature decreased by 25.6% and 18.3%, respectively.

The distribution of enrollments in doctoral programs differs for women and men. In the fall of 2005, 35.7% of the female students were in social sciences, 15.7% in health sciences, 11.7% in pure sciences, 10.0% in applied sciences, 7.6% in literature and 7.0% in education. The largest annual increases in female enrollment since 1990 have been in the arts (370.0%), law (363.2%), applied sciences (254.1%), health sciences (199.0%), and business administration (193.1%). In the fall term of 2005, enrollments in doctoral programs grew by 7.1%, compared with the fall of 2004. This increase appears to be the result of a 7.3% rise in male student enrollment and of a 6.8% rise in female student enrollment.

#### Table 2.11

Enrollment in doctoral programs, by field of study (fall term)

	1990	2000	2001	2002	2003	2004	2005
Arts	96	200	209	237	278	310	353
Literature	654	607	583	579	601	630	674
Business administration	258	494	508	558	623	695	738
Law	58	109	110	120	127	153	169
Education	549	558	504	526	553	565	590
Social sciences	2 168	2 721	2 685	2 749	2 989	3 251	3 449
Pure sciences	1 229	1 351	1 355	1 408	1 522	1 641	1 780
Applied sciences	1 276	1 389	1 446	1 711	2 020	2 304	2 477
Health sciences	662	1 1 1 4	1 149	1 246	1 353	1 447	1 512
Interdisciplinary studies	60	93	87	121	143	154	187
Not applicable <sup>1</sup>	27	17	23	25	33	24	39
Total	7 037	8 653	8 659	9 280	10 242	11 174	11 968

1. All situations for which there is no indication of the student's discipline or for which the Ministère has decided not to indicate a discipline.



#### Graph 2.11 Enrollment in doctoral

programs, by gender and field of study, fall 2005 (%)

# 3.1 Success in Secondary Cycle Two of General Education – Adult Sector<sup>1</sup>

**O** the students in general education in the adult sector who left secondary school in 2004-2005, 14.6% obtained a diploma. If only students in Cycle Two are considered, the proportion more than triples, to 49.4%. Of the various instructional services<sup>2</sup> available, only Secondary Cycle Two normally leads to a diploma. Figures for new enrollments broken down according to instructional service are available as of 1988-1989 only. These figures show that the proportion of graduates was 23.2% for students leaving Secondary Cycle Two; the rate has therefore doubled since that time.

Although earning a diploma is not the most appropriate criterion for measuring success in the other instructional services, it can nevertheless be observed that the proportion of graduates is on the rise among students in all the instructional services in the adult sector. Since 1980-1981, this proportion has risen from 11.5% to 14.6%. This increase is due primarily to the fact that fewer students are dropping out of instructional services that do not lead directly to a diploma. Instead of quitting school, students pursue their studies in another instructional service, and thus enter Cycle Two and eventually earn a secondary school diploma.

Among students leaving school, the proportion who hold a diploma is higher for those under 20 years of age than for all ages combined. Thus, in Secondary Cycle Two, 62.1% of the students leaving before the age of 20 did so with a diploma; progress has been considerable in this respect, because the corresponding proportion for 1988-1989 was 36.3%. With respect to instructional services as a whole, the proportion of those under the age of 20 leaving with a diploma grew from 22.0% to 33.7% between 1980-1981 and 2004-2005.

In 1980-1981, the graduation rate was slightly higher for male students than for female students, but the situation

has since reversed. In 2004-2005, the graduation rate for female students exceeded that of male students by 3.1 percentage points, with the difference being 12.8 percentage points for those under 20 years of age.

Of the students under the age of 20 who were enrolled in Secondary Cycle Two in the adult sector in 2004-2005, 62.1% earned a diploma.

<sup>1.</sup> Success in general education is measured here by the proportion of new graduates among all general education students leaving secondary school with or without a diploma. The diplomas counted are those obtained during or at the end of the last year of enrollment or the following year, if the student has not re-enrolled. Students are considered to have left school without a diploma when they have been absent for a period of at least two years following the last year of enrollment.

<sup>2.</sup> The following instructional services are offered, or were offered in the past, in general education in the adult sector: Integration into Community Life Program (ICLP), sociovocational integration services, pre-employment training activities (PTA), literacy services, francization services, adults educated in the youth sector, study skills and career planning, preparatory services for secondary education, Secondary Cycle One education services, pre-aratory services for postsecondary education, and preparation services for higher education.

## Table 3.1

Proportion of students leaving general education in the adult sector with a diploma,<sup>1</sup> by gender, instructional service, age and last year of enrollment (%)

	1980- 1981	1988- 1989	1995- 1996	2002- 2003	2003- 2004	2004- 2005°
Male Secondary Cycle Two Under the age of 20 All instructional services Under the age of 20	N/A N/A 13.1 23.1	22.7 36.2 13.2 22.4	50.2 61.0 14.9 22.4	45.5 56.9 12.8 27.6	47.2 60.3 14.0 31.4	45.6 58.1 13.0 28.4
Female Secondary Cycle Two Under the age of 20 All instructional services Under the age of 20	N/A N/A 10.3 20.8	23.6 36.4 15.3 25.8	55.9 67.5 20.0 33.2	52.0 64.8 15.6 37.9	54.0 66.1 17.2 42.0	53.0 66.4 16.1 41.2
<b>Total</b> Secondary Cycle Two Under the age of 20 All instructional services Under the age of 20	N/A N/A 11.5 22.0	23.2 36.3 14.4 24.1	53.2 64.3 17.4 26.8	48.8 60.5 14.2 31.9	50.7 63.0 15.6 35.8	49.4 62.1 14.6 33.7

N/A: Data not available

e: Estimates

1. All secondary school diplomas are taken into account.

## Graph 3.1

Proportion of students leaving general education in the adult sector with a diploma, by last year of enrollment (%)



# 3.2 Success in Secondary Vocational Training<sup>1</sup>

Of the students in vocational training<sup>2</sup> who left secondary school in 2004-2005, 61.6% obtained a diploma. If only those students truly considered to be working toward a diploma, that is, full-time students,<sup>3</sup> are considered, the proportion of graduates climbs to 85.6%.

Since the beginning of the vocational training reform in 1987-1988, the percentage of graduates has increased appreciably. For example, at the end of 2004-2005, the proportion of students graduating from programs leading to a Diploma of Vocational Studies (DVS) (known as the Secondary School Vocational Diploma [SSVD] prior to 1998) was 73.0%, compared with 54.4% in 1990-1991. The success rate for long vocational programs has not increased much since the mid-1980s, but data on long vocational programs concerned only the youth sector. If only full-time students<sup>3</sup> are considered, progress is more evident. As noted earlier, the proportion of graduates among students enrolled for the last time in 2004-2005 was 85.6%, compared with 56.3% for students who completed their studies in 1980-1981.

However, if we consider all school leavers without taking into account the sector or whether enrollment is full-time or parttime, the proportion of diplomas has also increased since the early 1980s. Thus, the success rate of persons enrolled in vocational training for the last time in 1980-1981 was 46.6%, and it rose to 61.6% in 2004-2005.

There was a significant decline in the number of new enrollments in vocational training during the 1980s (see Section 2.4). Students are now required to spend more time in general education before being admitted into vocational training. General education graduates still have higher success rates in vocational training than students who do not already have a diploma. This explains in large part the higher success rate observed for all school leavers in recent years.

The differences in the results of male and female students have varied over the years. In 1999-2000, there was a reversal in trends relating to graduation from programs leading to a DVS

and the success rate of female students surpassed that of male students (70.2% compared with 63.9%). In the past, the success rate for male students was 2 to 10 percentage points higher than for female students. However, when only the overall graduation rate by gender is considered, the success rate for female students has been higher for a long time. In 1985-1986, the proportion of female students graduating from vocational training was 36.2%, compared with 28.7% for male students; in 2004-2005, the proportions were 72.0% and 54.9%, respectively.

In 2004-2005, the success rate for male students in programs leading to a DVS dropped 3.2 percentage points and was lower than that for female students.

<sup>1.</sup> Success in vocational training is measured here by the proportion of new graduates among all vocational training students leaving secondary school with or without a diploma. The diplomas counted are those obtained during or at the end of the last year of enrollment or the following year, if the student has not reenrolled. Students are considered to have left school without a diploma when they have been absent for a period of at least two years following the last year of enrollment.

<sup>2.</sup> Because school boards are not required to transmit vocational training enrollment data when a diploma, attestation or certificate is not awarded, the denominator for the success rate may be incomplete.

<sup>3.</sup> Students enrolled for 270 course hours or more per year are considered full-time.

#### Table 3.2

Proportion of students leaving secondary vocational training with a diploma,<sup>1</sup> by gender, category and last year of enrollment (%)

		1980- 1981	1985- 1986	1990- 1991	1995- 1996	1999- 2000	2003- 2004	2004- 2005°
N	<b>Tale</b> Long vocational or DVS <sup>2</sup> Full-time <sup>3</sup> All male school leavers	57.1 51.8 48.3	58.3 51.4 28.7	60.0 81.1 21.7	67.7 79.5 46.2	63.9 81.6 50.7	74.5 84.7 56.2	71.3 84.5 54.9
F	emale Long vocational or DVS <sup>2</sup> Full-time <sup>3</sup> All female school leavers	65.5 61.3 45.2	69.5 62.0 36.2	50.3 80.0 39.3	64.5 78.3 54.0	70.2 82.4 65.7	75.0 86.4 71.1	75.1 86.9 72.0
T	otal Long vocational or DVS <sup>2</sup> Full-time <sup>3</sup> All school leavers	61.7 56.3 46.6	64.1 56.6 32.1	54.4 80.6 27.9	66.1 78.9 49.5	66.6 82.0 56.6	74.7 85.4 62.0	73.0 85.6 61.6

e: Estimates

1. All secondary school diplomas are taken into account.

2. Figures for 1980-1981 and 1985-1986 cover enrollment in long vocational programs only in the youth sector. After 1988-1989, figures take into account DVSs in the youth and adult sectors.

3. Students enrolled for 270 course hours or more per year are considered full-time.

Graph 3.2 Proportion of students leaving secondary vocational training with a diploma, by last year of enrollment (%)



# **3.3** Success in Pre-University Programs in Regular College Education<sup>1</sup>

**O** f the students in pre-university programs who left regular college education at the end of 2004-2005, 72.1% earned a Diploma of College Studies (DCS). In the past two decades, this graduation rate has fluctuated between 63.9% and 73.3%. The success rate has increased since 1999-2000, when it stood at 69.3%. Before the drop in 1999-2000, an increase in success rates had been observed: from 64.7% in 1995-1996 to 70.2% in 1998-1999. The stricter admission criteria that came into effect in the fall of 1997 (see Section 2.8) largely explain this increase, because fewer of the students who are most likely to quit their studies are able to enroll in college.

Women tend to do better than men in pre-university programs, and the gap has grown over the years. In 1980-1981, the proportion of women finishing their pre-university education with a DCS surpassed that of men by 4.0 percentage points. In 2004-2005, the difference was 13.9 percentage points in favour of women (it was 10.8 percentage points in 1995-1996). This phenomenon, coupled with the fact that more women than men enroll in college (see Section 2.8) explains the gender gap with respect to graduation rates (see Section 5.5).

When the type of initial college program is taken into account, the success rate is slightly above average for students who began their studies in pre-university programs: in 2004-2005, it was 74.2%. Students arriving from technical programs had markedly lower success rates. Given that since 1994-1995 some graduates have also begun in Explorations programs, the success rate remained lower for pre-university program students who came from another type of program. This rate did not clear the 50% mark until 1998-1999 and reached 56.6% in 2004-2005.

In theory, it takes two years to obtain a DCS in a pre-university program, but very few students do so within this time frame. In fact, the rate of completion within two years (that is, the time elapsed from initial enrollment in a program leading to a DCS) reached 44.3% in 2004-2005 for students who began their studies in a pre-university program. This rate was at its lowest point, 35.0%, in 1986-1987. If all pre-university program graduates are considered, regardless of the program in which they were initially enrolled, obviously their success rate for two-year completion will be slightly lower because students who transfer from other programs spend more time in school. Generally, the majority of the pre-university DCSs are obtained within five years of the start of college studies; in 2004-2005, the corresponding success rate was 72.8%.

Of the students in pre-university education completing their studies in 2004-2005, 72.1% graduated with a DCS; this figure has increased by 2.8 percentage points since 1999-2000.

<sup>1.</sup> Success in pre-university programs in regular college education is measured here by the proportion of new graduates among all students in pre-university programs in regular college education who leave programs leading to a DCS, with or without a diploma. DCSs of all types are counted, whether they were obtained during or at the end of the school year in which the student was last enrolled, or the following year, if the student has not re-enrolled in a program leading to a DCS. Students are considered to have left school without a diploma when they have been absent for a period of at least two years following the last year of enrollment.

#### Table 3.3

Proportion of students leaving a pre-university program with a DCS, by last year of enrollment in regular college education, gender, type of initial program, and time elapsed<sup>1</sup> since initial enrollment (%)

	1980- 1981	1990- 1991	1995- 1996	1999- 2000	2003- 2004	2004- 2005 <sup>e</sup>
Male and female						
Same type of initial program						
2 years or less <sup>1</sup>	N/A	40.5	36.6	42.6	44.2	44.3
5 years or less <sup>1</sup>	N/A	70.8	65.2	70.0	73.6	72.8
All durations	N/A	72.0	66.5	71.3	74.9	74.2
Other type of initial program	n²					
All durations	N/A	61.3	47.5	53.7	54.0	56.6
All types of initial programs	–all duratio	ons				
Male and female	66.8	71.4	64.7	69.3	72.4	72.1
Male	64.9	66.2	58.7	61.7	64.4	64.1
Female	68.8	75.8	69.5	74.7	78.2	78.0

e: Estimates

N/A: Data not available

1. The time elapsed since initial enrollment is not necessarily the same as the duration of studies, because the studies may have been interrupted at some point.

 Until 1993-1994, this category referred to students who began their studies in a technical program. As of 1994-1995, this category also includes students who leave pre-university education (with or without a diploma) after having begun in an Explorations program the previous year.

## Graph 3.3

Proportion of students leaving a pre-university program with a DCS, by gender and last year of enrollment in regular college education (%)





# **3.4** Success in Technical Programs in Regular College Education<sup>1</sup>

**O** f the students in regular college education who left technical programs at the end of 2004-2005, 62.3% earned a Diploma of College Studies (DCS). Over the past two decades, this graduation rate has fluctuated between 52.7% and 63.2%.

In this area, women still do better than men. The gender gap was at its greatest (17.1 percentage points) in 1997-1998 and narrowed by 3.8 percentage points in 2004-2005, when the success rate for women was 68.1% compared with 54.8% for men, a difference of 13.3 percentage points in favour of women. This phenomenon, coupled with the fact that more women than men enroll in college (see Section 2.8), explains the difference between the sexes with respect to graduation rates (see Section 5.5).

When the type of initial college program is taken into account, in 2004-2005, the success rate was slightly higher than the average for students who began their studies in technical programs. Moreover, until 1993-1994, students who began in pre-university programs and who transferred to technical programs had markedly higher success rates. Since 1994-1995, the success rates of students who began their college studies in programs other than technical programs were brought down by the rates of students in Explorations programs (introduced in 1993-1994).

In theory, it takes three years to earn a DCS in a technical program, but very few students do so within this time frame. In fact, the rate of completion within three years (that is, the time elapsed from initial enrollment in a program leading to a DCS) was 34.1% in 2004-2005 for all students who began in technical programs. If all technical training graduates are considered, regardless of the program in which they were initially enrolled, obviously their success rate for three-year completion will be slightly lower because students who transfer spend more time in school.

Generally, a higher proportion of technical DCSs are obtained within five years of the start of college studies; in 2004-2005, the corresponding success rate was 55.4%.

Of the students in technical programs completing their studies in 2004-2005, 62.3% earned a DCS; this percentage has increased slightly in recent years.

<sup>1.</sup> Success in technical programs in regular college education is measured here by the proportion of new graduates among all students in technical programs in regular college education who leave programs leading to a DCS, with or without a diploma. DCSs of all types are counted, whether they were obtained during or at the end of the school year in which the student was last enrolled, or the following year, if the student has not re-enrolled in a program leading to a DCS. Students are considered to have left school without a diploma when they have been absent for a period of at least two years following the last year of enrollment.

#### Table 3.4

Proportion of students leaving a technical program with a DCS, by last year of enrollment in regular college education, gender, type of initial program, and time elapsed since initial enrollment<sup>1</sup> (%)

	1980- 1981	1990- 1991	1995- 1996	1999- 2000	2003- 2004	2004- 2005º
Male and female						
Same type of initial program 3 years or less <sup>1</sup> 5 years or less <sup>1</sup> All durations	N/A N/A	29.6 51.1	26.8 47.8 53 1	31.6 52.4 57.6	36.1 57.2	34.1 55.4 62.1
Other type of initial program <sup>2</sup> All durations	N/A	64.4	55.7	57.8	62.0	62.6
All types of initial programs– Male and female Male Female	<b>all duratio</b> 59.0 53.9 63.0	58.6 54.7 61.3	53.9 46.1 60.9	57.7 50.1 64.6	63.2 55.8 69.2	62.3 54.8 68.1

e: Estimates

N/A: Data not available

- 1. The time elapsed since initial enrollment is not necessarily the same as the duration of studies, because the studies may have been interrupted at some point.
- 2. Until 1993-1994, this category referred to students who began their studies in a pre-university program. As of 1994-1995, this category also includes students who left technical training (with or without a diploma) after having begun in an Explorations program the previous year.

## Graph 3.4

Proportion of students leaving a technical program with a DCS, by gender and last year of enrollment in regular college education





# 3.5 Duration of Studies in Regular College Education

The duration of studies for graduates with a Diploma of College Studies (DCS) and for all students (regardless of whether or not they obtain a DCS) has changed very little over the years.<sup>1</sup>

Graduates from pre-university education have studied for an average of 2.4 years. For those who leave without a diploma, the total duration of studies is still an average of 1.5 years. The average duration of studies, whether students leave with or without a diploma, is 2.1 years.<sup>2</sup> For most students, that is, those who began their college studies directly in pre-university programs, the corresponding durations are similar or are 0.1 years less. Students who transferred from another type of program take 3.2 years to obtain their DCS in pre-university education.

Students in technical programs take an average of 3.9 years to earn a DCS, while those who leave without a diploma do so after 2.2 years. Given the success rate (see Section 3.4), students leaving technical programs study for 3.3 years. Here too, those students who enrolled in technical programs right from the beginning of their college studies leave in a shorter time: those leaving with a DCS do so in 3.5 years and those leaving without a diploma do so after 1.8 years. However, students who had initially enrolled in pre-university programs (who have a higher success rate) or in Explorations programs take 4.5 years to obtain a DCS in technical training.

Very slight differences in the duration of studies are apparent in the figures for men and women, and according to the status upon leaving. In pre-university education, female graduates, like women who leave their studies before obtaining a diploma, do so sooner (0.1 years) than men. This difference disappears, however, when college leavers overall are considered by gender because more women than men obtain a diploma, thereby raising the average duration of studies for women overall. The same effect can be observed in technical training, where female graduates study 0.1 years less than their male counterparts, while women who leave their studies before obtaining a diploma spend the same amount of time in school as men (average of 2.2 years).

On average, a DCS in pre-university education is obtained after 2.4 years equivalent to full-time study and a DCS in technical training, after 3.9 years.

This is why the results provided in this section are the averages for college leavers for the last five years observed (that is, the averages for students enrolled for the last time from 2000-2001 to 2004-2005). However, in the case of students leaving without a diploma, over a 10-year period, the duration of studies before dropping out has lengthened, by 0.4 full-time terms for pre-university education and by 1 full-time term for technical training.

<sup>2.</sup> The duration of studies for all college leavers depends, on the one hand, on the respective duration of studies of students with a DCS and college leavers without a diploma, and on the other hand, on the weighting of these two categories of students, that is, the success rate. This explains why the duration of studies for all students, whether or not they leave with a diploma, has remained stable, even though the success rates have been dropping and the duration of studies for those leaving without a diploma has been getting longer.

#### Table 3.5

Average number of years<sup>1</sup> of study completed before leaving regular college education (average for all college leavers after 2000-2001), by gender and type of program enrolled in at the start and finish of the studies

	With Dipl	oma	Without Di	oloma²	Total					
	Pre-university education	Technical training	Pre-university education	Technical training	Pre-university education	Technical training				
Male Female	2.5 2.4	3.9 3.8	1.6 1.4	2.2 2.1	2.2 2.1	3.2 3.3				
Total <sup>3</sup>	2.4	3.9	1.5	2.2	2.1	3.2				
Type of initial pro	Type of initial program									
Same Different <sup>3</sup>	2.3 3.2	3.5 4.5	1.4 2.1	1.8 2.9	2.1 2.7	2.8 3.9				

1. One year of full-time study is equivalent here to two full-time terms or eight part-time terms.

2. Refers to students who have interrupted their studies for at least six consecutive terms.

3. Refers to the total duration, including studies undertaken previously in other types of programs.

#### Graph 3.5

Cumulative schoolleaving rates for regular college education between 2000-2001 and 2004-2005, by number of years elapsed since initial enrollment in a program leading to a DCS (%)





# **3.6** Success and Duration of Studies in Bachelor's Programs<sup>1</sup>

At the end of 2004-2005, 67.6% of students leaving a bachelor's program earned their degree. In the 17-year period observed, the graduation rate increased from 55.9% for students enrolled for the last time in 1987-1988.

From the beginning of the period under observation, female students have had higher success rates than male students, with the difference rising from 0.7 to 6.4 percentage points between 1987-1988 and 2004-2005, a maximum gap of 7.7 percentage points in 1996-1997. In the last year observed, 70.2% of female students who left a bachelor's program did so with a degree, compared with 63.8% of their male counterparts. This phenomenon, coupled with the fact that more women than men enroll in bachelor's programs (see Section 2.10), explains the gender gap with respect to graduation rates (see Section 5.6).

Graduates of bachelor's programs have studied for an average of 6.5 full-time terms, or for 8.8 terms if full-time or part-time status is not taken into account.<sup>2</sup> Those who leave without a degree study an average of 2.6 terms, or slightly more than one year, full-time. For all students leaving bachelor's programs, the average duration of studies is 7.2 terms, 5.1 of which are full-time.

Differences in the duration of studies are apparent in the figures for men and women, and according to the attendance status upon leaving. Whether women obtain a bachelor's degree or give up their studies without a degree, they do so sooner than men do. Women who obtain a bachelor's degree spend 0.4 fewer terms in full-time studies than men, while women who leave their program without a degree do so 0.4 terms sooner than men. Nevertheless, when the duration of studies is considered, regardless of full- or part-time status, the gender difference is not as pronounced, because more women than men study part-time. For all students leaving bachelor's programs, the gender difference is

less evident, mainly because more women than men obtain a degree, which raises the average duration of studies for women overall.

Of the students leaving a bachelor's program at the end of 2004-2005, more than two thirds (67.6%) earned a degree.

<sup>1.</sup> Success in university bachelor's programs is measured here by the proportion of new graduates among all students leaving the programs with or without a degree. The degrees taken into account are bachelor's degrees obtained during or at the end of the school year in which the student was last enrolled, or the following year, if the student has not re-enrolled in an undergraduate program leading to a bachelor's degree. Students are considered to have left school without a degree when they have been absent for a period of at least two years following the last year of enrollment.

<sup>2.</sup> A portion of the studies is done part-time and is added to the average duration of full-time studies. For graduates, the duration of part-time studies varies from 2.2 to 2.5 terms. For those who leave without a degree, the duration of parttime studies is from 1.7 to 2.0 terms. For all school leavers, the duration of parttime studies varies from 2.0 to 2.4 terms.

#### Table 3.6a

Proportion of students graduating from a bachelor's program, by gender and last year of enrollment (%)

Total	55.9	61.5	65.9	67.4	67.7	67.6
Female	56.2	63.1	69.0	69.8	70.6	70.2
Male	55.5	59.7	61.7	64.0	63.6	63.8
	1987- 1988	1990- 1991	1995- 1996	2002- 2003	2003- 2004º	2004- 2005⁰

e: Estimates

## Table 3.6b

Average number of terms completed before leaving a bachelor's program (average for all leavers after 1999-2000), by gender

	With Degree		Withou	It Degree <sup>1</sup>	Total		
	Full-time	All attendance statuses <sup>2</sup>	Full-time	All attendance statuses <sup>2</sup>	Full-time	All attendance statuses <sup>2</sup>	
Male	6.8	9.0	2.8	4.5	5.2	7.2	
Female	6.4	8.7	2.4	4.4	5.0	7.2	
Total	6.5	8.8	2.6	4.4	5.1	7.2	

1. Refers to students who have interrupted their studies for at least six consecutive terms.

2. Refers to the total duration of full- and part-time studies.

## Graph 3.6

Proportion of students graduating from a bachelor's program, by gender and last year of enrollment (%)



# 3.7 Success and Duration of Studies in Master's Programs<sup>1</sup>

t the end of 2004-2005, 70.9% of students leaving a Amaster's program earned their degree. This is a gain of 14.8 percentage points since 1987-1988.

In 1987-1988, relatively fewer women than men seeking a master's degree pursued their studies to graduation. Since then, women have taken the lead and now have a higher success rate than men. In 2004-2005, 72.4% of women leaving a master's program did so with a degree, for an increase of 17.4 percentage points since 1987-1988. The corresponding increase for men was 12.5 percentage points; 69.5% of men leaving a master's program did so with a degree in 2004-2005. This phenomenon, coupled with the fact that more women than men enroll in master's programs (see Section 2.10), explains the gender gap with respect to graduation rates (see Section 5.6).

Graduates of master's programs are enrolled for an average of 7.0 terms, regardless of whether they study on a full-time or part-time basis.<sup>2</sup> On average, students spend 4.2 terms in full-time studies. The total average duration of studies for students who leave without a degree is 4.9 terms, whether full-time or part-time. For all students leaving master's programs, the average duration of studies is 6.2 terms, 3.5 of which are full-time. The duration of studies referred to here is the actual duration and is not consistent with the calculation of full-time equivalents (FTEs) for funding purposes, where a standardized duration is generally recognized for a master's program with a thesis. In these cases, the "funded" duration is a maximum of 4 terms (1.5 years in FTEs) for master's programs. However, the actual duration of studies exceeds this standard for all types of attendance status. This means that students who leave without a master's degree are in practice fully funded, with the exception of a supplementary amount of \$1 000 that is allocated to universities when the degree is awarded.

Differences in the duration of studies are apparent in the figures for men and women, and according to the attendance status upon leaving. Contrary to what was observed at the college level and in bachelor's programs, women enrolled in master's programs do not take less time than men to obtain their degree.

Of 100 students leaving a master's program at the end of 2004-2005, approximately 71 earned a degree, after an average of 7.0 terms of study.

<sup>1.</sup> Success in university master's programs is measured here by the proportion of new graduates among all students leaving the programs with or without a degree. The degrees taken into account are master's degrees obtained during or at the end of the school year in which the student was last enrolled, or the following year, if the student has not re-enrolled in a graduate program leading to a master's degree. Students are considered to have left school without a degree when they have been absent for a period of at least two years following the last year of enrollment.

<sup>2.</sup> A portion of the studies is done part-time and is added to the average duration of full-time studies. For graduates, the duration of part-time studies varies from 2.8 to 3.5 terms. For those who leave without a degree, the duration of part-time studies is from 2.4 to 3.0 terms. For all school leavers, the duration of part-time studies varies from 2.7 to 3.3 terms.

#### Table 3.7a

Proportion of students graduating from a master's program, by gender and last year of enrollment (%)

Total	56.1	64.5	65.6	70.3	71.2	70.9
Female	55.0	64.5	67.5	71.7	73.1	72.4
Male	57.0	64.4	63.7	69.1	69.4	69.5
	1987- 1988	1990- 1991	1995- 1996	2002- 2003	2003- 2004º	2004- 2005°

e: Estimates

## Table 3.7b

Average number of terms completed before leaving a master's program (average for all leavers after 1999-2000), by gender

	With Degree		Withou	It Degree <sup>1</sup>	Total		
	Full-time	All attendance statuses <sup>2</sup>	Full-time	All attendance statuses <sup>2</sup>	Full-time	All attendance statuses <sup>2</sup>	
Male	4.0	6.7	2.3	4.7	3.4	6.0	
Female	4.3	7.1	2.3	5.0	3.6	6.4	
Total	4.2	7.0	2.3	4.9	3.5	6.2	

1. Refers to students who have interrupted their studies for at least six consecutive terms.

2. Refers to the total duration of full- and part-time studies.

#### Graph 3.7

Proportion of students graduating from a master's program, by gender and last year of enrollment (%)





# 3.8 Success and Duration of Studies in Doctoral Programs<sup>1</sup>

t the end of 2004-2005, 57.1% of students leaving a Adoctoral program earned their degree. Since 1987-1988, this proportion has increased by 8.4 percentage points, but has also dropped from its high of 58.1% in 1996-1997.

Although traditionally fewer women than men in doctoral programs have obtained their degree, in 2000-2001, for the first time, more women graduated from doctoral programs than their male counterparts. Of the women enrolled in 2004-2005 who left doctoral programs, 54.9% earned their degree, for an increase of 14.6 percentage points compared with 17 years earlier. For men, the graduation rate increased by 5.6 percentage points during the same period, and the proportion of male candidates who completed their studies in 2004-2005 with a degree was 58.7%, or 3.8 percentage points more than for female candidates. For women, success rates have been steadily rising, while for men, they have been in decline since 1995-1996. This phenomenon offsets the fact that more men than women enroll in doctoral programs (see Section 2.10), but there are still more men than women who obtain doctoral degrees (see Section 5.6).

Graduates of doctoral programs are enrolled for an average of 16 terms, regardless of whether they study on a full-time or part-time basis.<sup>2</sup> On average, students spend 13.7 terms in full-time studies. Those who leave without a degree study for 9.5 terms, whether full-time or part-time. For students overall, whether they leave a doctoral program with or without a degree, they do so after 12.8 terms, of which 10.6 are full-time. The duration of studies referred to here is the actual duration and is not consistent with the calculation of full-time equivalents (FTEs) for funding purposes, where only a standardized duration is recognized. The "funded" duration is a maximum of 8 terms (3 years in FTEs) for doctoral programs. However, the actual duration of studies exceeds this standard for all types of attendance

status. This means that students who leave without a doctorate are in practice fully funded, with the exception of a supplementary amount of \$7000 that is allocated to universities when the degree is awarded.

Differences in the duration of studies are apparent in the figures for men and women, and according to the attendance status upon leaving. Contrary to what was observed at the college level and in bachelor's programs, women enrolled in doctoral programs do not take less time than men to obtain their degree or to leave without one.

Of the students leaving a doctoral program at the end of 2004-2005, 57.1% earned their degree, on average after 16 terms.

<sup>1.</sup> Success in university doctoral programs is measured here by the proportion of new graduates among all students leaving the programs with or without a degree. The degrees taken into account are doctorates obtained during or at the end of the school year in which the student was last enrolled, or the following year, if the student has not re-enrolled in a post-graduate program leading to a doctorate. Students are considered to have left school without a degree when they have been absent for a period of at least two years following the last year of enrollment.

<sup>2.</sup> A portion of the studies is done part-time and is added to the average duration of full-time studies. For graduates, the duration of part-time studies varies from 2.4 to 5.0 terms. For those who leave without a degree, the duration of part-time studies is from 2.3 to 3.0 terms. For all school leavers, the duration of part-time studies varies from 2.4 to 4.0 terms.

#### Table 3.8a

Proportion of students graduating from a doctoral program, by gender and last year of enrollment (%)

	1987- 1988	1990- 1991	1995- 1996	2002- 2003	2003- 2004 <sup>e</sup>	2004- 2005°
Male	53.1	55.5	60.9	60.4	57.1	58.7
Female	40.3	46.7	48.4	55.6	54.8	54.9
Total	48.7	52.3	56.3	58.3	56.2	57.1

e: Estimates

Total

Male

Female

#### Table 3.8b

Average number of terms completed before leaving a doctoral program (average for all leavers after 1999-2000), by gender

	With Degree		Withou	It Degree <sup>1</sup>	Total		
	Full-time	All attendance statuses <sup>2</sup>	Full-time	All attendance statuses <sup>2</sup>	Full-time	All attendance statuses <sup>2</sup>	
Male	13.6	15.5	7.6	9.5	10.6	12.6	
Female	13.8	16.6	7.3	9.6	10.6	13.0	
Total	13.7	16.0	7.4	9.5	10.6	12.8	

1. Refers to students who have interrupted their studies for at least six consecutive terms.

2. Refers to the total duration of full- and part-time studies.

## Graph 3.8

Proportion of students graduating from a doctoral program, by gender and last year of enrollment (%)



## 4.1 Secondary School Examination Results, by Several Variables – Youth Sector

The Ministère de l'Éducation, du Loisir et du Sport administers uniform examinations to students in Secondary IV and V for purposes of certification. The average mark for the June 2006 examinations was 72.6%,<sup>1</sup> and the success rate was 83.2%.

While female students have a much better record than male students for staying in school, they have no clear advantage over male students with regard to the results obtained on uniform examinations. The slight difference may be because of the higher dropout rate among male students, for it is usually the weaker students who leave school before graduation.

The average mark obtained by students in private schools was 79.8%, 9 percentage points higher than the average mark obtained in the public system (70.8%). The success rate was 80.6% in the public system, compared with 94.2% in the private system. One of the factors likely to explain these differences<sup>2</sup> is that private schools can impose selection criteria for admitting students.

Students who received instruction in French obtained slightly better results on the examinations than students who studied in English. The average mark of students studying in French was 1.8 percentage points higher than that of students studying in English; the success rate of students studying in French was 2.2 percentage points higher than that of students studying in English.

The best results were obtained in Secondary V English, second language, and the poorest, in Secondary IV mathematics. The success rate was 86.6% for the Secondary V French, language of instruction, examination and 93.4% for the Secondary V English, language of instruction, examination.

The success rate on the Ministère's June 2006 secondary school uniform examinations was 83.2%. Overall, female students performed better than male students.

Female students outperformed male students in French and English language of instruction. In the other subjects, there was little difference.

This figure is calculated on the basis of the students' final marks. The final mark is made up, in equal proportions, of the student's result on the uniform examination and the "moderated" school mark. "Moderation" is a procedure that renders the marks assigned by different schools comparable by using the results of the uniform examination for each student group as the basis of comparison.

<sup>2. &</sup>quot;The performance disadvantage observed in public schools largely disappeared after other school factors were taken into consideration. . . . In other words, after taking the effect of other school characteristics into consideration, including school average parental SES, public school attendance was associated with higher individual performance." See Measuring Up: The Performance of Canada's Youth in Reading, Mathematics and Science—OECD PISA Study: First Results for Canadians Aged 15 (Ottawa: Statistics Canada, No. 81-590-XPE, December 2001), p. 44.

#### Table 4.1

Results on secondary school uniform examinations in the youth sector, by gender, school system, language of instruction and subject: June 2006 (%)

	Average	Success Rate
Male Female	72.0 73.2	82.4 84.0
Public system <sup>1</sup> Private system	70.8 79.8	80.6 94.2
Language of instruction: French	72.8	83.6
Language of instruction: English	71.0	81.4
English, language of instruction (Secondary V) English, second language (Secondary V) French, language of instruction (Secondary V) French, second language (Secondary V) History (Secondary IV) Physical Science 416 (Secondary IV) Mathematics 436 (Secondary IV) Mathematics 514 (Secondary V)	73.2 81.2 71.6 77.2 71.4 71.4 67.2 70.0	93.4 94.6 86.6 93.6 79.4 80.2 73.4 81.6
Total	72.6	83.2

1. Excludes the Cree School Board, the Kativik School Board and institutions outside the jurisdiction of the Ministère de l'Éducation, du Loisir et du Sport.

## Graph 4.1

Average marks on secondary school uniform examinations in the youth sector, by gender, school system and language of instruction: June 2006 (%)



# 4.2 Regional Disparities in Secondary School Examination Results – Youth Sector

**S**ix administrative regions recorded higher averages and Success rates than the overall provincial results on the Ministère de l'Éducation, du Loisir et du Sport's June 2006 uniform examinations.<sup>1</sup> These regions are Capitale-Nationale, Bas-Saint-Laurent, Estrie, Montérégie, Montréal and Mauricie. Ranked among the lowest were Gaspésie–Îlesde-la Madeleine, Côte-Nord and Nord-du-Québec.

Regional disparities changed little from 2005 to 2006; however, the difference between the highest and lowest average marks rose from 9.1 to 16.6 percentage points, while the gap in the success rates rose from 14.7 to 26.2 percentage points. These differences are attributable to a significant drop in the average mark and success rate observed in the Nord-du-Québec region.

The results on uniform examinations are not necessarily indicative of the probability of obtaining a secondary school diploma. In some regions, it is possible that a low student retention rate contributes to higher marks on the uniform examinations because the weakest students have dropped out. The results on the Ministère's June 2006 uniform examinations showed a difference of 26.2 percentage points between the success rates of students in the region with the best performance (85.8%) and in the region with the poorest performance (59.6%).

Results are calculated on the basis of the students' final marks. The final mark is made up, in equal proportions, of the student's result on the uniform examination and the "moderated" school mark. "Moderation" is a procedure that renders the marks assigned by different schools comparable by using the results of the uniform examination for each student group as the basis of comparison.

Table 4.2 Results on secondary	School Administrative Region	Average	Success Rate
school uniform	Gaspésie–Îles-de-la-Madeleine	70.6	80.0
examinations in the	Bas-Saint-Laurent	73.2	84.4
youth sector, by school	Saguenay–Lac-Saint-Jean	71.6	83.0
administrative region:	Capitale-Nationale	73.6	85.8
June 2006 (%)	Chaudière-Appalaches	72.4	83.6
	Mauricie	73.0	84.0
	Centre-du-Québec	71.4	81.4
	Estrie	73.0	84.2
	Montérégie	73.0	84.2
	Montréal	73.6	84.0
	Laval	71.2	81.2
	Lanaudière	72.4	83.4
	Laurentides	71.4	81.2
	Outaouais	71.6	80.6
	Abitibi-Témiscamingue	71.8	83.8
	Côte-Nord	67.6	74.8
	Nord-du-Québec	57.0	59.6
	Total	72.6	83.2

## Graph 4.2

Average marks on secondary school uniform examinations in the youth sector, by school administrative region: June 2006 (%)



# 4.3 Secondary V French, Language of Instruction, Examination – Youth Sector

Students who took the June 2006 Secondary V French, language of instruction, examination obtained an average mark of 71.6%;<sup>1</sup> the success rate was 86.6%.

The examination consisted of three components: a written production, a reading comprehension exercise and an oral expression test. The reading comprehension and oral expression components were under the responsibility of the educational institutions. The results obtained in these sections are not included in Table 4.3; however, they were considered in the calculation of the overall results on the French examination. For the written production component, which was under the responsibility of the Ministère de l'Éducation, du Loisir et du Sport, students obtained an average of 70.8% and a success rate of 79.4%.

Whereas there was no significant difference overall between the results obtained by male and female students on the examinations used for purposes of certification, female students outperformed male students on the French examination. The average for female students was 5.6 percentage points above that for male students, and the success rate was 9.2 percentage points in favour of female students. In written production, the female students' average was 5.2 percentage points higher than the male students' and their success rate was 9.2 percentage points higher than the male students' and their success rate was 9.2 percentage points higher.

The average obtained by private school students surpassed that of public school students by 6.2 percentage points. In the public system, 15.8% of the students failed the ministry examination, compared with 4.2% in the private system. In written production, students in private schools scored 7 percentage points higher than students in the public system. Compared with the June 2005, examination, the success rate for the written production component went from 86.3% to 79.4%. For the examination as a whole, the suc-

cess rate dropped from 89.8% to 86.6%. This drop is a result of more stringent spelling criteria.

The success rate on the Ministère's June 2006 Secondary V French, language of instruction, examination was 86.6%. Female students obtained significantly higher marks than male students.

Results are calculated on the basis of the students' final marks. The final mark is made up, in equal proportions, of the student's result on the uniform examination and the "moderated" school mark. "Moderation" is a procedure that renders the marks assigned by different schools comparable by using the results of the uniform examination for each student group as the basis of comparison.

#### Table 4.3

Results on the Secondary V French, language of instruction, examination in the youth sector, by gender and school system: June 2006 (%)

	Written I	Production	Overall	Results
Dete	Average	Success Rate	Average	Success
Rate				
Male Female	67.8 73.0	74.4 83.6	68.6 74.2	81.6 90.8
Public system <sup>1</sup> Private system	69.2 76.2	76.4 90.4	70.4 76.6	84.2 95.8
Total	70.8	79.4	71.6	86.6

1. Excludes the Cree School Board, the Kativik School Board and institutions outside the jurisdiction of the Ministère de l'Éducation, du Loisir et du Sport.



# 4.4 Ministerial Examination of College French

In 2005-2006, 39 875 college students wrote the ministerial examination of college French, language of instruction and literature.

Since January 1, 1998,<sup>1</sup> students in French CEGEPs are required to pass this examination to obtain a Diploma of College Studies (DCS). The students must read a series of texts and write a 900-word essay on them, thereby demonstrating their ability to understand a variety of texts and produce a structured essay using correct language.

There are three major evaluation criteria for the ministerial examination: I-Comprehension and insight; II-Organization of response; and III-Expression. The first two criteria contain specific subcriteria that are evaluated using a seven-level rating scale: A (very good), B (good), C+ (fair), C (adequate), D (weak), E (very poor) and F (unacceptable). In the Expression criterion, the "appropriate use of words" subcriterion is evaluated using the same rating scale, while sentence structure, punctuation, spelling and grammar are evaluated quantitative-ly, by counting errors. Students must obtain a C or better for each of the three major criteria. A grade of C represents an adequate level of competence. Therefore, students who obtain a D or worse on any one of the three criteria automatically fail the examination.

In 2005-2006, the overall success rate for the ministerial examination of college French was 81.1%, compared with 84.7% in 2004-2005. This drop is a result of a set of factors related to the student strike in the fall of 2005 and student body composition (more allophone and adult students).

The best results were obtained in Organization of response, on which 37.1% of students received an A. Good results were also obtained in Comprehension and insight, on which 51.9% of students received a B. The results for the third criterion, Expression, were the lowest: only 38.2% of students passed this criterion 83.7% of them with a C.

In 2005-2006, the success rate for women was 83.8%, compared with 76.7% for men. These rates were lower than those observed in 2004-2005, which were 87.6% and 80.2%, respectively.

Students enrolled in pre-university programs leading to a DCS recorded a success rate of 89.1%, while students enrolled in technical programs leading to a DCS achieved a success rate of 72.6%.<sup>2</sup> In the latter case, the results were 5.0 percentage points<sup>3</sup> lower than those observed in 2004-2005. This is the largest decline since 2000-2001, which was 5.8 percentage points lower than the preceding year. The performance of students enrolled in pre-university programs is slightly lower than that observed the previous year.

Of the college students who took the ministerial examination of college French during the 2005-2006, 81.1% passed.

<sup>1.</sup> This requirement was postponed until January 1, 2003, for students who have passed at least one language and literature course in the old system. Students may retake the examination until they pass it.

<sup>2.</sup> The average mark in secondary school of students enrolled in pre-university education who wrote the ministerial examination of college French in 2005-2006 was 78.0%; it was 68.7% for those enrolled in technical training. This difference in academic performance may help explain the gap between the results of students enrolled in the different types of college programs.

<sup>3.</sup> A number of factors explain these results, in particular, the student strike in the fall of 2005, the "special" conditions for passing the examination set in December 2005, as well as modifications in the composition of the students who took the examination (more allophone and adult students).

#### Table 4.4a

Success rate for the ministerial examination of college French, by gender and type of program (%)

			Success Rate						
on		200	2-2003	2003-2004	2004-2005	2005-2006			
	Female Male	8	38.5 31.8	87.5 80.5	87.6 80.2	83.8 76.7			
	Pre-university education (DCS) Technical training (DCS)	92.2 79.9		91.4 78.5	91.6 77.6	89.1 72.6			
	Overall examination	85.8		84.7	84.7	81.1			
ts	Criteria for the		Distrib	its	Success				
e	2005-2006 examination	А	В	С	Fail	Rate			
	Comprehension and insight	9.0	51.9	33.7	5.4	94.6			
on	Organization of response	37.1	38.1	23.6	1.3	98.7			
	Expression	14.5	31.0	38.2	16.3	83.7			

#### Table 4.4b

Distribution of students according to the grade obtained on each criterion of the ministerial examination of college French, 2005-2006 (%)

## Graph 4.4

Distribution of students, by grade obtained on each criterion of the ministerial examination of college French, 2005-2006 (%)



## 5.1 **Highest Diploma or Degree Earned**

The main data pertaining to diplomas and degrees earned L at the various levels of education appears in the diagram on student retention and is presented in more detail in the following sections. Organized in a different way,<sup>1</sup> this data may also show the distribution of a cohort of school leavers according to the highest diploma or degree earned.<sup>2</sup>

Between 1975-1976 and 2004-2005, graduation rates at the secondary and university levels rose rapidly for both men and women. During this period, the increase in the proportion of new graduates with bachelor's degrees (from 14.9% to 30.2%) was accompanied, at the other extreme, by a drop of almost two thirds in the proportion of those leaving school without a diploma (from 43.0% to 14.7%). This decline has resulted in a significant increase in all the other categories.

Thus, the proportion of school leavers who are not prepared for the labour market, that is, persons without a diploma or with only a Secondary School Diploma (SSD) in general education or a pre-university Diploma of College Studies (DCS) (including DCSs without mention) dropped from 63.2% in 1975-1976 to 29.6% in 2004-2005. This decline of 33.6 percentage points is reflected by increases of 15.3 percentage points in the proportion of graduates with a bachelor's degree and 18.3 percentage points in the proportion of holders of vocational or technical training diplomas (14.4 and 3.9 percentage points, respectively).

A glance at the situation according to gender highlights the disparities already observed in the schooling of men and women. In 2005, one and a half times more women than men graduated with a bachelor's degree or with a college diploma in technical training (52.4% compared with 31.1%), while roughly half as many women as men left school without a diploma (8% compared with 21%).

In 2004-2005, 70.4% of those leaving the education system graduated with a bachelor's degree or a diploma in vocational or technical training.

<sup>1.</sup> It is assumed that the diplomas or degrees awarded at a given level are preceded by a diploma at a lower level. For example, the number of bachelor's degrees should be a subset of the number of DCSs; it follows that the surplus of DCSs in relation to the bachelor's degrees would represent the number of DCSs that are not followed by a university degree. For this reason, there are no persons with a DCS in pre-university education or without mention of vocational specialty as a last diploma in 1975-1976 and 1995-1996. An additional hypothesis makes it possible to estimate the number of DCSs in technical training that are followed by a bachelor's degree. It is also assumed that secondary vocational training diplomas are not followed by another higher-level diploma. Partial studies at a given level are grouped with the diploma immediately below: for example, uncompleted college studies are considered with the SSDs in general education.

<sup>2.</sup> This level of schooling is different from the level for the general population as indicated in the census, the latter being primarily a historical reflection of all the generations in question. The level measured here is the schooling for persons currently leaving the education system. It also shows what the general state of schooling would be if current trends were to continue.

#### Table 5.1

Distribution of school leavers, by highest diploma or degree earned (%)

	1975- 1976	1985- 1986	1990- 1991	1995- 1996	2003- 2004	2004- 2005
Bachelor's degree <sup>1</sup>	14.9	19.0	23.6	29.0	29.3	30.2
College diploma in technical training <sup>2</sup>	7.4	11.2	10.4	11.2	11.7	11.3
Secondary vocational training diploma <sup>3</sup>	14.5	17.7	13.7	19.4	27.4	28.9
General education (DCS or SSD)	20.2	31.3	29.1	28.6	15.8	14.9
No diploma	43.0	20.8	23.2	11.8	15.8	14.7
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Figures for university are based on the calendar year in which the school year ends.

 The diplomas considered here are the Diploma of College Studies (DCS) in technical training, the Attestation of College Studies (ACS) until 1984, the Certificat d'études collégiales (CEC-certificate of college studies) and the Diplôme de perfectionnement de l'enseignement collégial (DPEC-diploma of advanced college studies).

3. The diplomas considered here are the Short Vocational Diploma, the Long Vocational Diploma, the Secondary School Vocational Certificate (SSVC), the Diploma of Vocational Studies (DVS–known as the Secondary School Vocational Diploma [SSVD] prior to 1998), the Attestation of Vocational Specialization (AVS), the Attestation of Vocational Education (AVE) and other secondary school diplomas (SSDs) with mention of vocational specialty.



Graph 5.1 Distribution of school leavers, by highest diploma or degree earned (%)

# 5.2 Graduation From Secondary School – Youth and Adult Sectors

The probability of obtaining a secondary school diploma<sup>1</sup> I in 2005-2006 was 86.4%. This is the highest rate observed since 1995-1996.

In 2005-2006, for students in the youth sector and under 20 years of age in the adult sector in Québec, the probability of obtaining a secondary school diploma was 70.2%, exactly the same as the previous year. The Ministère's objective is to reach a rate of 85%.

The graduation rate discussed here applies primarily to general education. As indicated in Section 5.3, the graduation rate for vocational training rose in 2005-2006, while the graduation rate in general education was similar to that observed in 2004-2005. This section is primarily concerned with the first diplomas earned.<sup>2</sup> It is interesting to note that in 2005-2006, 85.8% of all the diplomas earned were first diplomas obtained in general education. This proportion was 96.6% if only diplomas obtained in the youth sector or by students under 20 years of age in the adult sector are considered.

The temporary slump in the graduation rate between 1986 and 1990 was largely due to the raising of the pass mark from 50% to 60%, which has made the diploma more valuable, yet more difficult to obtain. Students seem to have overcome this obstacle since 1989, and the graduation rate continued to rise for a number of years, although it has been dropping steadily since 1998-1999. Finally, since 2003-2004, the rate has been rising steadily to return to the levels observed in the mid-1990s.

The probability of graduating from secondary school is greater for female students than for male students. The gender gap was nearly 18 percentage points in 1989-1990 and close to 14 percentage points in 2005-2006.

The graduation rate for female students was above 90% between 1991-1992 and 1995-1996, and remained below this level after 1998-1999; it is once again above 90% since 2003-2004 (90.5%), reaching 93.4% in 2005-2006. For male students, it passed the 80% mark in 1995-1996, and stood at 79.7% in 2005-2006.

The dropout rate is the proportion of the population who would never earn a diploma during their lifetime if the situation observed in a given year were to continue indefinitely. It is the complement to the probability of obtaining a secondary school diploma, presented in this section. The dropout rate was 20.2% in 2002-2003; it was 13.6% in 2005-2006.

In 2005-2006, the probability of obtaining a first secondary school diploma in the youth or adult sector was 86.4%.

<sup>1.</sup> The probability of obtaining a first secondary school diploma is determined by grouping the first diplomas obtained at the secondary level in general education and vocational training. This indicator is a measure of the proportion of a generation that stavs in school until a secondary-level diploma is earned.

<sup>2.</sup> Figures do not include the second or third vocational training diploma that a student may have earned, vocational training diplomas received after a general SSD, or SSDs obtained after a diploma in vocational training.

## Table 5.2

Probability of obtaining a secondary school diploma in either the youth or the adult sector, by gender (%)

	1975- 1976	1985- 1986	1995- 1996	2003- 2004	2004- 2005	2005- 2006
Total	57.0	79.1	88.3	84.2	85.3	86.4
Adult sector: 20 years of age or over	3.4	6.7	14.7	14.3	15.1	16.1
Youth sector or under the age of 20 in the adult sector	53.5	72.4	73.6	69.9	70.2	70.2
Male	51.1	73.1	81.8	78.2	78.9	79.7
Adult sector: 20 years of age or over	2.9	6.0	14.6	14.7	15.3	16.4
Youth sector or under the age of 20 in the adult sector	48.2	67.1	67.3	63.5	63.7	63.3
Female	63.0	85.4	95.2	90.5	92.0	93.4
Adult sector: 20 years of age or over	3.9	7.5	14.9	14.0	14.9	15.8
Youth sector or under the age of 20 in the adult sector	59.1	78.0	80.3	76.5	77.0	77.6

e: Estimates



Probability of obtaining a secondary school diploma in either the youth or the adult sector (%)





# 5.3 Graduation From Secondary Vocational Training – Youth and Adult Sectors

**B**ased on behaviours observed in 2005-2006, 32 out of 100 Quebeckers can expect to obtain a vocational training diploma<sup>1</sup> in secondary school.<sup>2</sup> This group includes 20 persons who already have a first Secondary School Diploma (SSD) in general education. Since 1997-1998, this proportion has been relatively stable (roughly 16 or 17); the 20-person mark in 2005-2006 is therefore a significant increase.

Moreover, the probability of obtaining a first secondary school diploma from the youth sector or before the age of 20 in the adult sector in vocational training was 2.4% in 2005-2006; this rate was higher than 16% in 1977-1978 and has been relatively stable since 1996-1997. Students in the youth sector or before the age of 20 in the adult sector who obtain a first secondary school diploma (70.2% in 2005-2006) are most likely to do so in general education (Section 5.2).

The very nature of vocational training diplomas has also changed. Short vocational programs have been phased out in favour of general education. The basic difference between the Diploma of Vocational Studies (DVS) and its predecessor, the Long Vocational Diploma, is that the DVS deals exclusively with vocational training, since all the components of the vocational programs dealing with general education have been transferred to the SSD.

The difference between male and female students is much less pronounced than in general education. Nevertheless, vocational training represents a larger share of the graduation rate for male students (35.0%) than for female students (28.8%).

The proportion of a generation of students obtaining a secondary school vocational training diploma was 32.0% in 2005-2006. This is the highest rate ever recorded.

The diplomas considered here are the Short Vocational Diploma, the Long Vocational Diploma, the Secondary School Vocational Certificate (SSVC), the Diploma of Vocational Studies (DVS--known as the Secondary School Vocational Diploma [SSVD] prior to 1998), the Attestation of Vocational Specialization (AVS), the Attestation of Vocational Education (AVE) and other secondary school diplomas (SSDs) with mention of vocational specialty.

<sup>2.</sup> Refers to the probability of obtaining a first secondary school diploma. This rate is determined by grouping only the first secondary school diplomas in vocational training. This indicator is a measure of the proportion of a generation that stays in school until a secondary-level diploma is earned in vocational training.

#### Table 5.3

Probability of obtaining a vocational training diploma, by sector, age and gender (%)

	1975-	1985-	1995-	2003-	2004-	2005-
	1976	1986	1996	2004	2005	2006°
Total	14.6	17.7	19.6	27.5	28.9	32.0
Male	12.0	17.0	21.2	30.4	31.5	35.0
Female	17.2	18.4	17.9	24.4	26.2	28.8
First diploma	12.4	10.9	6.3	10.4	11.3	12.4
After an SSD <sup>1</sup>	2.2	6.8	13.3	17.1	17.7	19.6
Youth sector or before the of 20 in the adult sector	age 13.0	15.1	4.8	6.2	6.4	6.9
First diploma	11.0	8.8	1.3	2.2	2.3	2.4
After an SSD <sup>1</sup>	2.1	6.4	3.5	4.0	4.0	4.5
Adult sector: 20 years of age or over	1.5	2.5	14.8	21.3	22.6	25.1
First diploma	1.4	2.1	5.0	8.2	8.9	10.0
After an SSD <sup>1</sup>	0.1	0.4	9.8	13.1	13.6	15.1

e: Estimates

1. SSD: Secondary School Diploma



Graph 5.3 **Probability of obtaining** a vocational training diploma, by sector and age (%)

# 5.4 Graduation From Secondary School in Québec and OECD Countries, 2004

In 2006, the Organisation for Economic Co-operation and Development (OECD) published *Education at a Glance*, which contains indicators on graduation from secondary school in OECD countries in 2004.

Table 5.4 compares the situation in Québec with that in a number of industrialized OECD nations with respect to the proportion of graduates from public and private secondary schools out of a total population old enough, in theory, to have obtained a secondary school diploma. In 2004, the secondary school graduation rate (SSD) in Québec (87%) remained higher than the average for OECD countries.

Of the 22 OECD countries listed in the table,<sup>2</sup> 8 had higher secondary school graduation rates than Québec. Québec's rate was lower than that of Norway, Germany, Korea, Ireland, Japan, Denmark, Finland and Switzerland, but higher than that of Hungary, Iceland, the Slovak Republic, Italy, France, Poland, Sweden, the United States, New Zealand, Luxembourg, Spain, Turkey and Mexico.

Except for Korea and Turkey, where the secondary school graduation rate for male students is the same or higher than that for female students, female students are more likely to graduate than male students. The greatest gender differences are observed in Norway (28 percentage points), Iceland (24 percentage points), New Zealand (20 percentage points), Denmark and Poland (19 percentage points), Spain (17 percentage points) and Ireland (14 percentage points). Québec, with a difference of 12 percentage points, is among those places where female students are more likely to graduate than male students. In other countries, graduation rates among male and female students differ less (as seen in Table 5.4), for example Japan, Switzerland and the Czech Republic.

The graduation rate observed for male students in Québec (82%) was higher than the OECD average for male students. The rate for female students in Québec was 94%, 8 percentage points higher than the OECD average for female students.

There are far more students in general education in Québec than there are in vocational training, and this holds true for both male and female students. With a probability of obtaining a diploma in general education of 77%, Québec ranks first among the OECD countries, with a rate 30 percentage points higher than the OECD average.

The reverse is true in vocational training. The probability of obtaining a diploma in vocational training in Québec is 32%, while the average for the OECD countries is 44%. A number of countries obtained very good results in vocational training, including Finland (75%), Switzerland and France (70%), the Czech Republic (69%), the Slovak Republic (68%) and Italy (67%).

The probability of obtaining a diploma in vocational training in Québec is only slightly higher for male students than for female students. It is the sector of activity that differs for female and male students.

In 2004, the probability of obtaining a secondary school diploma<sup>1</sup> in Québec was 87%, 6 percentage points higher than the OECD average.

<sup>1.</sup> For Québec, this rate was obtained by dividing the number of "first diplomas" awarded in 2004 by the number of 17-year-olds in Québec (the age at which a secondary school diploma is generally awarded in Québec).

<sup>2.</sup> The countries included in the table are those for which the OECD report provides totals and whose number of students per cohort is significant.

	(witho	Total ut double cou	Inting)	General education		Vocational training	
	M + F	Male	Female	M + F	Female	M + F	Female
Norway Germany Korea reland Japan Denmark <sup>1</sup> Tinland <sup>1</sup> Switzerland Czech Republic Québec Hungary celand Slovak Republic taly France <sup>1</sup> Poland Sweden Jnited States New Zealand Luxembourg Spain Furkey Mexico	100 99 96 92 91 90 90 89 87 <b>87</b> 86 84 83 81 81 79 78 75 69 66 53 38 <b>81</b>	86 97 96 80 81 82 82 82 82 82 82 82 82 72 81 75 72 65 66 857 34 <b>77</b>	114 101 96 92 100 96 90 88 <b>94</b> 90 96 85 83 84 89 81 79 85 73 75 49 41 <b>86</b>	66 36 68 58 52 29 18 <b>77</b> 71 61 229 33 37 75 85 43 43 43 4 34 <b>47</b>	80 40 66 97 70 62 33 <b>86</b> 80 75 26 80 75 28 40 52 80 52 80 52 80 52 80 52 80 52 80 52 80 52 80 52 80 52 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 33 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 38 80 55 53 80 55 80 80 55 80 55 80 55 80 55 80 555 80 80 55 80 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 80 55 80 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 55 80 80 55 80 80 80 80 80 80 80 80 80 80 80 80 80	45 62 30 24 56 75 70 69 <b>32</b> 21 52 68 67 70 45 41 N/A 42 519 4 <b>44</b>	46 61 30 38 21 63 83 66 65 <b>28</b> 15 48 62 65 42 37 N/A N/A 27 15 4 <b>43</b>

Source: OECD, Education at a Glance: OECD Indicators (Paris, 2006), Table A2.1.

N/A: Data not available. 1. Reference year: 2003

General

education Vocational training

## Graph 5.4

Probability of obtaining a secondary school diploma, general education and vocational training: Québec and OECD countries, 2004 (%)



# 5.5 Graduation From College

In 2004-2005, the proportion of a generation who could expect to obtain a first college diploma (all diplomas combined) was 48.2%. This is an increase of 26.0 percentage points since 1975-1976, when it stood at 22.2%. The proportion of a generation who could expect to obtain a first Diploma of College Studies (DCS) rose from 21.0% to 39.5%, an increase of 18.5 percentage points. The more pronounced increase for all diplomas combined is a result of the increase in the official number of graduates holding an Attestation of College Studies (ACS) when it became mandatory to declare ACSs in 2000. The proportion of a generation who are admitted to college (see Section 2.8) and the proportion of students who obtain a diploma upon leaving college (see Sections 3.3 and 3.4) also contribute to this result.

The probability of women obtaining a diploma was more than one and a half times higher than for men (59.6% compared with 37.3%). The gender gap grew steadily during the 1980s and 1990s. In 1975-1976, the probability of obtaining a college diploma was only 2.7 percentage points higher for women than for men. Since then, the probability has continued to rise more sharply for women, and the gap is now 22.3 percentage points. In fact, in the past several years, it is virtually only among women that the probability of obtaining a DCS has grown.

The greatest growth has occurred with the pre-university DCS, as the probability of obtaining this type of diploma rose from 13.5% to 24.5% between 1975-1976 and 2004-2005, an increase of 11.0 percentage points, compared with 7.5 percentage points for the technical DCS over the same period. In the latter case, however, the increase has been greater, given that the rate doubled. Since 1995-1996, only in technical training did the probability of obtaining a diploma increase (1.5 percentage points), while it remained stable for a pre-university DCS.

For both types of programs, the number of women graduating between 1975-1976 and 2004-2005 exceeded the number of men, and the gender gap continued to widen. The probability of women obtaining a pre-university DCS increased by 18.7 percentage points, compared with 3.7 percentage points for men. On the other hand, for both men and women, the probability of obtaining a technical DCS grew more modestly (in absolute numbers), although the increase for men was more pronounced in technical training (5.9 percentage points) than in pre-university education (3.7 percentage points). Women were ahead of men by 4 percentage points in 1975-1976, and by 7.4 percentage points in 2004-2005.

The Ministère's objective is that 60% of Quebeckers obtain a DCS; in 2004-2005, the rate was for a DCS was 39.5%, while it was 48.2% for all college diplomas combined, including the ACS.

By 2004-2005, the proportion of female Quebeckers who could expect to obtain a college diploma had risen by 20.3 percentage points since 1985-1986, compared with 7.6 percentage points for male Quebeckers.

<sup>1.</sup> The probability of obtaining a first college diploma measures the proportion of a generation that stays in school until a college diploma is earned.

#### Table 5.5

Probability of obtaining a first college diploma, by gender and type of education (%)

	1975- 1976	1985- 1986	1995- 1996	2002- 2003	2003- 2004	2004- 2005°
Male						
All diplomas <sup>1</sup>	20.8	29.7	31.7	37.4	38.0	37.3
DCS <sup>2</sup>	19.8	28.0	30.5	29.2	29.5	29.4
Pre-university education	14.3	18.7	19.4	17.0	17.6	18.0
Technical training	5.5	9.0	10.9	12.0	12.0	11.4
Female						
All diplomas <sup>1</sup>	23.5	39.3	47.4	61.1	60.2	59.6
DCS <sup>2</sup>	22.2	37.9	46.3	50.6	50.3	50.2
Pre-university education	12.7	23.6	29.8	31.5	31.1	31.4
Technical training	9.5	14.0	16.2	19.1	19.2	18.8
Total						
All diplomas <sup>1</sup>	22.2	34.4	39.4	48.9	48.8	48.2
DCS <sup>2</sup>	21.0	32.8	38.2	39.6	39.7	39.5
Pre-university education	13.5	21.1	24.5	24.1	24.1	24.5
Technical training	7.5	11.4	13.5	15.5	15.5	15.0

e: Estimates

Total

Male

Female

 The diplomas considered here are the Diploma of College Studies (DCS), the Attestation of College Studies (ACS), the Certificat d'études collégiales (CEC-certificate of college studies) and the Diplôme de perfectionnement de l'enseignement collégial (DPEC-diploma of advanced college studies). Since 1994, there have been no new enrollments in programs leading to a CEC or to a DPEC. The more pronounced increase for all diplomas combined is a result of the rise in the official number of graduates holding an ACS when it became mandatory to declare ACSs in 2000.
These figures include DCSs without mention of vocational specialty.

Graph 5.5 **Probability of obtaining** a first college diploma (DCS), by gender (%)


### 5.6 Graduation From **University**<sup>1</sup>

Dased on behaviours observed in 2005, more than one Dquarter of Quebeckers (30.2%) can expect to obtain a bachelor's degree. In the past several years, the number of women enrolling in university has grown more rapidly than the number of men (see Section 2.10). The situation has changed drastically since 1976, when the probability of obtaining a bachelor's degree was 13.1% for women and 16.7% for men. In 1983, the probability for both groups was more similar and, since then, the increase in probability has been in women's favour. In 2005, the probability of obtaining a bachelor's degree was 37.9% for women and 22.9% for men, or an increase of 24.8 percentage points for women and 6.2 percentage points for men since 1976.

The Ministère's objective is a university graduation rate of 30% for Quebeckers. The current rate (30.2%) shows an increase despite a series of drops in university enrollment between 1992-1993 and 1997-1998 (see Section 2.10). The recovery of the university enrollment rate in the past several years has allowed the Ministère's objective to be attained.

With regard to obtaining a master's degree, the results have continued to increase and reached 9.1% for women and 9.4% for men. For both sexes, the rate of 9.2% represents more than triple the 1976 rate of 2.7%. An increase in enrollment at the master's level (see Section 2.10) points to a continued increase in the number of master's degrees awarded for at least a few years to come. The gender gap disappeared in 2003, but could widen in favour of women, given the growing margin in earning a bachelor's degree. Since 1976, the situation of men and women has reversed; whereas the initial gap was 1.6 percentage points in favour of men, the probability of women obtaining a master's degree has climbed from 1.9% to 9.1%, an increase of 7.2 percentage points.

Doctorates are still only earned by a very small fraction (1.2%) of the population. This last phase in the education system is perhaps the only one in which men continue to outnumber women. Figures are, however, minimal for both sexes: 1.3% of men obtain a doctorate, compared with 1.1% of women. In view of developments at the master's level, and the trend at the doctoral level (see Section 3.8), the pool of aspiring doctoral candidates is also likely to increase for some time to come.

In 2005, the proportion of Quebeckers who could expect to obtain a bachelor's, master's or doctoral degree was 30.2%, 9.2% and 1.2%, respectively. These are the highest rates observed for these university degrees.

<sup>1.</sup> Only university degrees (bachelor's, master's and doctoral degrees) awarded by Québec universities are considered here, including those earned by foreign students. Degrees earned by Quebeckers outside the province are not taken into account.

Table 5.6 Probability of obtaining		1976	1986	1991	1996	2003	2004	2005
a university degree, by gender (%)	Bachelor's degree	14.9	19.0	23.6	29.3	27.7	29.3	30.2
	Male Female	16.7 13.1	18.1 19.9	20.0 27.3	23.0 35.7	21.3 34.4	22.3 36.5	22.9 37.9
	Master's degree	2.7	3.9	4.4	6.1	8.5	8.9	9.2
	Male Female	3.5 1.9	4.4 3.4	4.4 4.3	5.8 6.3	8.5 8.5	9.0 8.8	9.4 9.1
	Doctorate	0.4	0.5	0.6	0.9	1.1	1.1	1.2
	Male Female	0.6 0.2	0.7 0.3	0.9 0.4	1.2 0.6	1.2 0.9	1.3 1.0	1.3 1.1



Male

Female

by gender (%)



### 5.7 University Degrees by Field of Study<sup>1</sup>

In 2005, the largest proportion (26.9%) of bachelor's, master's and doctoral degrees issued by Québec universities were earned in the humanities, followed by business administration (24.2%), engineering and architecture (12.0%), education (9.6%), health sciences (9.5%) and natural sciences (7.0%). Social sciences represented 4.6%, mathematics and computer science, 3.8% and law, 2.5%.

The majority of degree holders are women (57.6%). In 2005, women earned 80.6% of the degrees in education, 78.1% in social sciences, 76.2% in health sciences, 66.5% in the humanities, 63.8% in law and 55.9% in natural sciences. Men earned 75.9% of the degrees in engineering and architecture,<sup>2</sup> 74.0% in mathematics and computer science, and 51.0% in business administration.

The number of degrees issued by universities is experiencing an upward trend, going from 31 404 in 1990, to 42 286 in 2004 and 43 397 in 2005, which represents an increase of 2.6% between these two years. This increase, however, hides differences from one field of study to another. For example, the number of degrees in health sciences, engineering and architecture, the humanities and business administration increased by 6.5%, 5.1%, 4.4% and 4.2%, respectively. Between 2004 and 2005, the number of degrees awarded in mathematics and computer science, education and law decreased by 8.9%, 3.5% and 3.0%, respectively.

Between 2000 and 2005, the distribution of the degrees awarded according to field of study has also changed. For example, the number of degrees in business administration increased (by 3.2 percentage points), as did the number of degrees in engineering and architecture (by 1.8 percentage points) and health sciences (by 1.1 percentage points). At the other extreme, the number of degrees awarded in law and education dropped (by 1.8 percentage points), as did the number of degrees in natural sciences (by 1.5 percentage points), the humanities and law (by 0.9 percentage points), mathematics and computer science (by 0.5 percentage points) and the social sciences (by 0.4 percentage points).

In 2005, Québec universities awarded 40% of bachelor's, master's and doctoral degrees in engineering and architecture, business administration as well as mathematics and computer science. In these fields of study, 60.0% of the graduates were men; however, 70.0% of the degrees in the other fields of study were awarded to women.

This refers to students who earned a first university degree (bachelor's, master's or doctoral degree) during the year in question.

<sup>2.</sup> The proportion of degrees in engineering and architecture earned by women rose from 16.8% in 1990 to 24.1% in 2005.

#### Table 5.7

Distribution of university degrees, by field of study and gender<sup>1</sup> (%)

	1990	2000	2001	2002	2003	2004	2005
Health sciences	8.7	8.3	8.2	8.6	8.3	9.1	9.5
Natural sciences	7.7	8.5	8.0	7.7	7.3	7.1	7.0
Mathematics and computer science	3.9	4.3	4.6	5.0	4.7	4.3	3.8
Engineering and architecture	11.0	10.2	10.7	10.4	11.2	11.7	12.0
Law	3.5	3.4	3.3	3.1	2.4	2.6	2.5
Business administration	22.8	21.0	22.2	22.6	24.1	23.9	24.2
Education	11.1	11.4	10.9	11.3	10.7	10.2	9.6
Humanities	26.3	27.8	27.4	26.7	26.5	26.4	26.9
Social sciences	4.9	5.0	4.8	4.6	4.7	4.7	4.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Female	53.4	56.7	57.2	58.4	57.4	57.6	57.6
Male	46.6	43.3	42.8	41.6	42.6	42.4	42.4

1. Only holders of bachelor's, master's or doctoral degrees who obtained their degree in the year in question are considered.



# 6.1 Changes in Educational Attainment in the Labour Force

**S**ince the early 1990s, there has been a significant Québec and in Canada as a whole.<sup>1</sup> The data presented in this section is from Statistics Canada. The levels of education considered here correspond to the highest level of education attained by employed workers in a given year.<sup>2</sup> It should be noted, however, that these levels do not necessarily correspond to employment requirements.

In 2006,<sup>3</sup> although there were 626 000 more jobs than in 1990, this 19.9% growth in employment did not benefit all workers. Those with only a secondary school diploma or who did not finish secondary school had fewer jobs, while those who successfully completed postsecondary or university studies made gains. Thus, employed individuals with a university education were more numerous (by 404 000) in 2006 than in 1990, for an increase of 96.9%. Those with a postsecondary diploma held 614 000 more jobs (+ 67.3%) in 2006 than in 1990. Those with only some postsecondary studies were more likely to hold jobs in 2006 than in 1990 (3 000 more), for an increase of 1.2%. In short, individuals with some higher education held 1 018 000 more jobs in 2006 than in 1990, which by far exceeds the total increase in jobs during this period.

The situation was very different for those without a secondary school diploma or with only a secondary education. In all, these individuals held 396 000 fewer jobs in 2006 than in 1990. Thus, in 2006, those with only a secondary school diploma held 28 000 fewer jobs (- 4.4%). The situation is even more dismal for individuals without a secondary school diploma: from 1990 to 2006, they held 368 000 fewer jobs, a decrease of 39.9%. The increase of 49 000 jobs in 2006 over 2005 benefited graduates with a postsecondary diploma or a university degree.

*3* The figure for 2006 is the average of the first 11 months of that year.

According to Statistics Canada terminology, elementary school lasts eight years (it includes elementary school and the first two years of secondary education in Québec). Postsecondary studies include all programs leading to diplomas and certificates in the trades (including the Diploma of Vocational Studies—DVS), college diplomas and certificates, and university certificates below the bachelor's level. The university sector begins with programs leading to at least a bachelor's degree.

<sup>2.</sup> The level of education attained by a person may increase over time. It is therefore possible that the same job, held by the same person, will be considered to be held by a person with a higher level of education in a given year than in an earlier year.

#### Table 6.1

Employment trends in Québec, by level of education<sup>1</sup> (in thousands)

Year	No secondary school diploma	Secondary school diploma	Some postsecondary studies	Postsecondary diploma	University degree	Total
1990 1995 2000 2001 2002 2003 2004 2005 2006	922 722 633 613 625 599 592 548 554	632 549 598 585 596 581 585 608 604	258 229 277 282 290 316 312 280 261	912 1 077 1 242 1 270 1 367 1 413 1 437 1 482 1 526	417 559 655 691 693 719 755 799 821	3 140 3 135 3 403 3 440 3 570 3 629 3 681 3 717 3 766
Change from 1990 to 2006	- 39.9%	- 4.4%	1.2%	67.3%	96.9%	19.9%

Source: Statistics Canada

1. See notes at the bottom of the text.

#### Graph 6.1

Employment trends in Québec from 1990 to 2006, by level of education (%)



### 6.2 Labour Force Participation by Level of Education<sup>1</sup>

As indicated in Section 6.1, in recent years, there has been a rapid increase in the level of education of employees. In 1990, 29.4% of employees did not have a secondary school diploma, whereas in 2006,<sup>2</sup> the rate was only 14.7%. This phenomenon is not limited to Québec; it extends to Ontario and the other provinces as well. In Ontario, individuals without a diploma accounted for 26.7% of employees in 1990 and only 12.4% in 2006. In the other provinces, the rates were 24.9% in 1990 and 14.1% in 2006.

The number of individuals with only a secondary school diploma is also declining, but less quickly.

The percentage of those who started postsecondary studies but did not graduate declined everywhere, going from 8.2% to 6.9% in Québec, from 10.1% to 7.9% in Ontario and from 10.3% to 9.5% in the other provinces.

However, the number of employees with a postsecondary diploma or university degree has increased considerably. In 1990, they held approximately 40% of the jobs in each province. In 2006, the proportions were 62.3% for Québec, 58.7% for Ontario and 53.5% for the other provinces.

The growth in the employment rate of university graduates was especially rapid: in 1990, they held 13.2% of the jobs in Québec, whereas in 2006, they held more than one in five jobs (21.8%). In Ontario, this proportion is even higher, with close to one in four jobs (25.8%) and in the other provinces, it is 21.0%.

If the rates for the number of jobs held by graduates with different diplomas or degrees are compared for Québec, Ontario and the other provinces, it can be noted that Québec's situation has changed gradually from 1990 to 2006.

The percentage of jobs held by individuals without a secondary school diploma fell more rapidly in Québec than in Ontario and the other provinces. However, there is still a significant gap with respect to Ontario (2.3 percentage points) and a smaller

gap with respect to the other provinces (0.6 percentage points).

Although the proportion of employed individuals with only a secondary school diploma declined everywhere, it is lower in Québec. It should be noted, however, that it takes less time to earn a secondary school diploma in Québec than elsewhere in Canada.

The proportion of employees with a postsecondary diploma increased everywhere, but remained the highest in Québec, no doubt because the college education system is more developed in Québec.

The proportion of employees with a university degree in Québec (21.8%) currently exceeds that of the other provinces (21.0%); however, this increase was not sufficient to make up the gap with respect to Ontario (25.8%), which is now 4.0 percentage points.

In 2006, individuals with a postsecondary diploma or university degree held more than 62% of all jobs in Québec.

According to Statistics Canada terminology, postsecondary studies include all programs leading to diplomas and certificates in the trades (including the Diploma of Vocational Studies—DVS), nonuriversity college diplomas and certificates, and university certificates below the bachelor's level. The university sector begins with programs leading to at least a bachelor's degree.

<sup>2.</sup> The figure for 2006 is the average of the first 11 months of that year.

#### Table 6.2

Employment by highest level of education: Québec, Ontario and the other provinces, 1990 and 2006<sup>1</sup> (%)

	Québec		Ont	ario	Other p	Other provinces		
	1990	2006	1990	2006	1990	2006		
Total	100.0	100.0	100.0	100.0	100.0	100.0		
No secondary school diploma	29.4	14.7	26.7	12.4	24.9	14.1		
Secondary school diploma	20.2	16.0	23.0	21.1	24.3	22.9		
Some postsecondary studies	8.2	6.9	10.1	7.9	10.3	9.5		
Postsecondary diploma	29.0	40.5	24.0	32.9	27.1	32.5		
University degree Bachelor's degree Higher degree	13.2 9.2 4.0	21.8 15.7 6.1	16.2 10.7 5.5	25.8 17.2 8.6	13.4 9.4 4.0	21.0 15.0 6.0		

Source: Statistics Canada

Québec

Ontario

Other

1. See note at the bottom of the text.

#### Graph 6.2

Distribution of employment, by highest level of education: Québec, Ontario and the other provinces, 2006 (%)



# 6.3 Labour Market Integration of Graduates

Each year, almost 200 000 people obtain a secondary school for college diploma or a university degree. The data obtained through Québec government *Relance* surveys provides a picture of the placement of secondary school vocational training, college technical training and university graduates a number of months after they obtain their diploma or degree.<sup>1</sup> In all, the surveys provide data about nearly 95 000 people.<sup>2</sup>

Since 2002, more than 85.0% of students with a Diploma of Vocational Studies (DVS) (known as the Secondary School Vocational Diploma [SSVD] prior to 1998) found work. During the last five years, this proportion has varied little, between 85.6% and 86.9%. In 2006, it was 85.6%.

The proportion of students with an Attestation of Vocational Specialization (AVS) who are in the labour force fell from 85.1% in 2002 to 80.7% in 2006. The proportion of students with an AVS who are still in school was 11.3% in 2006, and the unemployment rate among AVS graduates, 9.8%.

In 2006, 69.8% of students who graduated from a college technical program with a Diploma of College Studies (DCS) were in the labour force. The proportion of graduates still studying was 28.1% in 2006. Finally, the unemployment rate for graduates with a DCS in technical training declined from 6.0% in 2004 to 4.5% in 2006.

In 2005, the proportion of students with a bachelor's degree entering the labour force was 71.9%; it has been falling since 2001. However, it must be noted that certain methodological changes were introduced in 2003. The unemployment rate has been climbing since 2001, going from 4.0% in 2001 to 4.9% in 2003, to stand at 5.3% in 2005.

In 2005, 78.0% of graduates with master's degrees entered the labour force, comparable to the rate of 82.3% in 2001 and of 79.9% in 2003, if certain methodological changes are taken into account.<sup>3</sup> Their unemployment rate rose from 3.7% in 2001 to 5.7% in 2005, an increase of 2.0 percentage points.

Graph 6.3 shows that the unemployment rate of graduates with a DVS and AVS has dropped slightly since 2004. The unemployment rate for graduates with a DCS in technical training was 4.5% in 2006. This rate remained very low in recent years: since 2002, it fluctuated between 4.5% and 6.0%. During the same period, the unemployment rate for the labour force as a whole in Québec, whose age, training and work experience differ considerably from those of these graduates, also remained relatively stable.

Since 2004, the unemployment rate has dropped slightly among graduates with a DVS, an AVS or a DCS in technical training.

Results refer to students graduating in the year indicated, approximately nine months after the completion of studies for graduates with a DVS or an AVS and roughly 10 months for graduates with a DCS (15 months for those finishing in the fall). The situation for those graduating with a bachelor's or master's degree is as of January, approximately 20 months after they earned their degree.

This number is valid for those years in which the three Relance surveys are conducted. Data about university students is published every two years, while data about secondary school and college graduates is published annually. In 2005, 34 977 university graduates were surveyed.

<sup>3.</sup> Methodological changes related to the definition of the term "employed individual" resulted in a slight decrease in 2003 in the proportion of university graduates considered employed. For more information, refer to the section dealing with the methodology of the survey La Relance à l'université 2003 at the Ministère's Web site: <a href="http://www.mels.gouv.qc.ca/Relance/Relance.htm">http://www.mels.gouv.qc.ca/Relance/Relance.htm</a> (available in French only).

#### Table 6.3

Unemployment rates for graduates, by level of education and type of diploma or degree (%)

	2002	2003	2004	2005	2006
Secondary education <sup>1</sup>					
DVS	12.0	11.7	11.6	11.2	10.8
AVS	10.2	12.0	10.3	10.2	9.8
College <sup>1</sup>					
Technical training	6.0	5.6	6.0	5.5	4.5
University <sup>1</sup>					
Bachelor's degree	-	4.9	-	5.3	-
Master's degree	-	4.6	-	5.7	-
Unemployment rate in Québec <sup>2</sup>					
15-19-year-olds	22.0	19.8	23.3	21.2	23.7
20-24-year-olds	11.1	13.0	11.6	12.7	10.3
25-29-year-olds	8.2	9.5	8.6	7.0	8.4
Total labour force	9.5	9.7	9.3	8.8	9.0

1. Source: Relance surveys, Direction de la recherche, des statistiques et des indicateurs, Ministère de l'Éducation, du Loisir et du Sport, <a href="http://www.mels.gouv.qc.ca/Relance/Relance.htm">http://www.mels.gouv.qc.ca/Relance/Relance.htm</a>>.

Data obtained from Statistics Canada. Includes the total labour force, regardless of level of education and work experience. The unemployment rates are those for March of the year in question (unadjusted data). Source: Statistics Canada, monthly labour force survey estimates (Labour Force Survey, Table 282-0001).

-: There is no data for these years: the Relance survey of university graduates is conducted every two years.





### 6.4 Labour Market Integration of Secondary Vocational Training Graduates

**O**n March 31, 2006, about nine months after graduation, 76.3% of graduates of programs leading to a Diploma of Vocational Studies (DVS) were employed, as were 72.8% of graduates of programs leading to an Attestation of Vocational Specialization (AVS).

On March 31, 2006, 10.1% of DVS graduates in the class of 2004-2005 were studying and 4.2% were inactive. The proportion of individuals with a DVS who were in the labour force (employed or looking for work) was 85.6%; this rate has remained relatively stable since 2002. The unemployment rate for DVS graduates was 10.8% in 2006.

A total of 87.0% of DVS graduates were employed full-time in 2006. This rate has fluctuated little since 2002, between 86.7% and 87.2%. There is an obvious trend throughout: more men than women are employed full-time. Men were 17.9 percentage points ahead in 2006 (94.7%, compared with 76.8% for women).

Between 2002 and 2006, the correspondence between the field of study and the field of employment remained relatively stable, varying from 76.0% to 79.3% among DVS graduates working full-time. In 2006, the rate was 78.0% for women and 79.0% for men.

On March 31, 2006, 7.9% of the class of 2004-2005 who graduated from programs leading to an AVS were looking for work, 11.3% were studying and 7.9% were inactive. The number of AVS graduates in the labour force stood at 80.7% in 2006. Since 2002, the unemployment rate has fluctuated between 9.8% and 12.0%, and was 9.8% in 2006.

A total of 85.0% of AVS graduates were employed full-time in 2006. There is still a large gap between the full-time employment rate of women (76.5%) and that of men

(93.7%). The correspondence between the field of study and the field of employment among AVS graduates was 70.7% in 2006.

The unemployment rate for DVS graduates decreased from 12.0% in 2002 to 10.8% in 2006. The unemployment rate for AVS graduates was 9.8% in 2006.

#### Table 6.4

Employment situation of secondary school vocational training graduates, by graduation class, as at March 31 of the year following their graduation (%)

	2002	2003	2004	2005	2006
Graduates with a DVS <sup>1</sup>					
Employed	76.2	76.7	75.9	77.1	76.3
Seeking employment	10.4	10.2	9.9	9.7	9.3
Studying	9.4	9.2	10.2	8.9	10.1
Inactive	3.9	3.9	4.0	4.3	4.2
Total	100.0	100.0	100.0	100.0	100.0
Unemployment rate	12.0	11.7	11.6	11.2	10.8
Graduates with an AVS <sup>1</sup>					
Employed	76.4	73.7	76.8	74.1	72.8
Seeking employment	8.7	10.0	8.8	8.4	7.9
Studying	9.2	8.3	7.5	12.1	11.3
Inactive	5.7	8.0	6.9	5.4	7.9
Total	100.0	100.0	100.0	100.0	100.0
Unemployment rate	10.2	12.0	10.3	10.2	9.8

1. Source: Relance surveys of vocational training graduates, Direction de la recherche, des statistiques et des indicateurs, Ministère de l'Éducation, du Loisir et du Sport, <a href="http://www.mels.gouv.qc.ca/Relance/Relance/Relance.htm">http://www.mels.gouv.qc.ca/Relance/Relance/Relance.htm</a>.

#### Graph 6.4

Proportion of DVS and AVS graduates working full-time in a related field of study, as at March 31 of the year following their graduation, by gender (%)



### 6.5 Labour Market Integration of Graduates of College Technical Programs

The percentage of graduates of technical programs who were employed approximately 10 months after they obtained a Diploma of College Studies (DCS) was 66.7% as of March 31, 2006. That year, the proportion of male graduates who were employed was 61.3%, while the proportion of female graduates in the same position was 69.9%.

In 2006, 3.1% of graduates were looking for work, 28.1% were studying, and 2.1% were inactive. The percentage of DCS technical graduates in the labour force (either working or looking for work) was 69.8% in 2006. The unemployment rate of DCS technical graduates was 4.5% in 2006. The unemployment rate of graduates aged 24 or younger went from 6.1% in 2004 to 4.4% in 2006, the lowest unemployment rate recorded.

The percentage of students who, after obtaining a DCS in technical training the previous year, were studying on March 31 of the year in question rose from 19.6% in 2000 to 28.1% in 2006. Of those surveyed in 2006, 32.9% of men and 25.2% of women were still in school on March 31, 2006.

Most of these students, 83.3%, were in university. Of these, 89.4% were studying in a field related to the diploma earned in 2004-2005. Finally, only 5.9% of those in school on March 31, 2005, were there because they were unable to find a job. The corresponding proportions were 8.8% in 2003, 10.7% in 2004 and 7.1% in 2005.

In 2006, 85.3% of DCS technical graduates were employed full-time; this rate has remained above 85.0% since 2000. However, men are more likely to be employed full-time (90.9%) than women (82.4%). This gender gap has persisted over the years.

On March 31, 2006, 33.9% of part-time workers reported working part-time because they could not find full-time

employment, a 6.5-percentage point increase over 2005, when the rate stood at 40.4%.

The correspondence between the field of study and the field of employment for full-time workers rose from 80.9% in 2004 to 83.5% in 2006. This rate increased significantly among men, going from 74.0% in 2004 to 79.6% in 2006, while it hovered around 85.0% among women.

The unemployment rate among graduates with a DCS in technical training was 6.0% in 2004 and reached a low of 4.5% in 2006. Slightly more than 28% of technical training graduates continued studying the year after they earned their diploma.

Table 6.5		2002	2003	2004	2005	2006
of graduates of college	Graduates with a DCS <sup>1</sup>					
technical programs,	Employed	70.3	69.5	67.6	65.8	66.7
by graduating class,	Seeking employment	4.5	4.1	4.3	3.8	3.1
as of March 31	Studying	23.1	24.4	26.1	27.9	28.1
of the year following	Inactive	2.1	2.0	2.1	2.4	2.1
their graduation (%)	Total	100.0	100.0	100.0	100.0	100.0
	Unemployment rate	6.0	5.6	6.0	5.5	4.5

1. Source: Relance surveys of technical training graduates, Direction de la recherche, des statistiques et des indicateurs, Ministère de l'Éducation, du Loisir et du Sport, <http://www.mels.gouv.qc.ca/Relance/Relance/Relance.htm>.





## **Statistical Appendix**

Table 1 Full-time and part-time enrollment, by level of education and sector, 1996-1997 to 2005-2006	125
Table 2 Full-time and part-time enrollment, by category of institution, language of instruction, level of education and sector, 2005-2006	126
Table 3 Enrollment in secondary vocational training and college technical training, 1998-1999 to 2005-2006	127
Table 4 Personnel in school boards, CEGEPs and universities by job category, based on full-time equivalents,1997-1998 to 2004-2005	128
Table 5 Number of diplomas awarded, by level of education and type of diploma, 1996 to 2005	129
Table 6 Schooling rates, by age, gender, level of education and attendance status, 2004-2005 (%)	130

Page

# *Full-time and part-time enrollment, by level of education and sector, 1996-1997 to 2005-2006*

	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
Preschool (4-year-olds)	17 294	16 295	15 908	15 174	14 601	15 778	15 240	14 700	14 996	14 808
Preschool (5-year-olds)	96 087	95 303	91 513	89 223	87 297	84 624	80 967	76 832	74 801	74 123
Elementary education (youth sector)	552 482	559 279	566 372	573 102	575 862	574 274	564 559	549 073	529 860	510 340
Secondary education (youth sector)	486 696	479 740	469 250	456 148	447 937	446 491	455 467	467 594	480 319	489 054
Elementary and secondar education (adult sector) <sup>1</sup>	y 222 434	218 193	214 701	219 268	222 714	238 693	247 258	254 482	258 979	257 443
<b>College</b> <sup>2</sup> Regular education Adult education	<b>237 523</b> 180 313 57 210	<b>230 725</b> 176 586 54 139	<b>228 715</b> 174 464 54 251	<b>219 211</b> 171 653 47 558	<b>213 427</b> 166 968 46 459	<b>206 373</b> 164 731 41 642	<b>200 772</b> 163 070 37 702	<b>195 797</b> 160 972 34 825	<b>193 227</b> 159 956 33 271	<b>188 549</b> 159 312 29 237
University <sup>3</sup> Undergraduate studies Graduate studies Postgraduate studies	<b>230 941</b> 187 565 34 086 9 290	<b>227 009</b> 183 355 34 326 9 328	<b>226 669</b> 183 141 34 604 8 924	<b>231 973</b> 187 021 36 183 8 769	<b>233 554</b> 187 518 37 275 8 761	<b>239 094</b> 189 450 40 808 8 836	<b>249 177</b> 195 132 44 592 9 453	<b>258 324</b> 201 129 46 735 10 460	<b>261 677</b> 202 071 48 197 11 409	<b>264 240</b> 203 316 48 735 12 189
Total	1 843 457	1 826 544	1 813 128	1 804 099	1 795 392	1 805 327	1 813 440	1 816 802	1 813 859	1 798 557

Sources: Déclaration des clientèles scolaires (DCS) Déclaration des clientèles en formation professionnelle (DCFP) Système d'information financière sur la clientèle adulte (SIFCA) Système d'information et de gestion des données sur l'effectif collégial (SIGDEC) Système de recensement des clientèles universitaires (RECU) Gestion des données sur les effectifs universitaires (GDEU)

1. Only persons having taken courses for which credits are earned for certification purposes are included.

2. Fall term. Figures for adult education exclude students enrolled in noncredit programs.

3. Fall term. These figures include resident physicians and some students in college of Explorations programs. However, they exclude auditors, postdoctoral trainees and students in Explorations programs.

# *Full-time and part-time enrollment, by category of institution, language of instruction, level of education and sector, 2005-2006*

	Pres	chool	Elementary	Secondary	Elementary and	Co	College <sup>2</sup> Universit		Total
	4-year-olds	5-year-olds	(Youth sector)	(Youth sector)	(Adult sector) <sup>1</sup>	Regular education	Adult education		
School boards French English Native languages	<b>14 661</b> 13 619 750 292	<b>69 344</b> 61 674 7 123 547	<b>478 772</b> 424 865 52 770 1 137	<b>401 407</b> 355 617 45 789	<b>250 447</b> 224 273 25 938 1 236				<b>1 214 631</b> 1 080 048 132 370 2 213
Private institutions French English French and English	<b>30</b> 7 23	<b>4 625</b> 3 787 838	<b>30 461</b> 24 724 5 737	<b>86 561</b> 78 437 8 124	<b>6 243</b> 5 807 436	<b>11 209</b> 6 326 2 885 1 998	<b>6 034</b> 1 402 627 4 005		<b>145 163</b> 120 490 18 670 6 003
Public institutions outside	117	154	1 107	1 086	753	1 535	102		4 854
French English Native languages	89 10 18	115 18 21	949 109 49	947 106 33	753	1 455 80	102		4 410 323 121
<b>CEGEPs and campuses</b> French English French and English						<b>146 568</b> 122 953 23 615	<b>23 101</b> 18 755 4 346		<b>169 669</b> 141 708 27 961
<b>Universities and branches</b> French English								<b>264 240</b> 198 440 65 800	<b>264 240</b> 198 440 65 800
<b>Total</b> French English Native languages French and English	<b>14 808</b> 13 715 783 310	<b>74 123</b> 65 576 7 979 568	<b>510 340</b> 450 538 58 616 1 186	<b>489 054</b> 435 001 54 019 34	<b>257 443</b> 230 833 26 374 236	<b>159 312</b> 130 734 26 580 0 1 998	<b>29 237</b> 20 259 4 973 0 4 005	<b>264 240</b> 198 440 65 800 0 0	<b>1 798 557</b> 1 545 096 245 124 2 334 6 003

Sources: Déclaration des clientèles scolaires (DCS)

Déclaration des clientèles en formation professionnelle (DCFP)

Système d'information financière sur la clientèle adulte (SIFCA) Système d'information et de gestion des données sur l'effectif collégial (SIGDEC) Gestion des données sur les effectifs universitaires (GDEU)

1. Only persons having taken courses for which credits are earned for certification purposes are included.

2. Fall term. Figures for adult education exclude students enrolled in noncredit programs.

3. Fall term. These figures include resident physicians, but exclude auditors, postdoctoral trainees and students in Explorations programs.

# *Enrollment in secondary vocational training and college technical training, 1998-1999 to 2005-2006*

1	998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006 <sup>p</sup>
<b>SECONDARY EDUCATION</b> Under 20 years of age <sup>2</sup> 20 years of age or over <sup>3</sup>	<b>94 263</b> 26 476 67 787	<b>99 884</b> 26 031 73 853	<b>95 991</b> 25 514 70 477	<b>99 063</b> 25 480 73 583	<b>101 040</b> 24 923 76 117	<b>104 645</b> 25 580 79 065	<b>108 838</b> 26 257 82 581	<b>99 893</b> 25 458 74 435
<b>Regular paths:</b> <b>DVS (SSVD), SSVC, AVS, AVE</b> Under 20 years of age <sup>2</sup> 20 years of age or over <sup>3</sup>	<b>77 127</b> 25 208 51 919	<b>75 890</b> 24 623 51 267	<b>76 559</b> 24 343 52 216	<b>79 395</b> 24 044 55 351	<b>80 288</b> 23 232 57 056	<b>84 552</b> 23 847 60 705	<b>88 156</b> 24 530 63 626	<b>84 169</b> 23 910 60 259
<b>Other programs</b> Under 20 years of age <sup>2</sup> 20 years of age or over <sup>3</sup>	<b>17 136</b> 1 268 15 868	<b>23 994</b> 1 408 22 586	<b>19 432</b> 1 171 18 261	<b>19 668</b> 1 436 18 232	<b>20 752</b> 1 691 19 061	<b>20 093</b> 1 733 18 360	<b>20 682</b> 1 727 18 955	<b>15 724</b> 1 548 14 176
COLLEGE EDUCATION	126 088	121 769	119 941	116 510	111 001	105 901	102 683	98 609
(DCS - technical) Certificat d'études collégiales (CEC	90 442 ) 60	88 964 16	87 500	86 836	84 685	81 566	80 076	78 218
Attestation of College Studies (ACS Diplôme de perfectionnement de l'enseignement collégial (DPEC)	5) 35 586	32 788 1	32 441	29 674	26 316	24 335	22 607	20 391

Sources: Déclaration des clientèles scolaires (DCS) Déclaration des clientèles en formation professionnelle (DCFP) Système d'information financière sur la clientèle adulte (SIFCA) Système d'information et de gestion des données sur l'effectif collégial (SIGDEC)

p: Preliminary figures

DVS: Diploma of Vocational Studies (or SSVD: Secondary School Vocational Diploma, prior to 1998); SSVC: Secondary School Vocational Certificate; AVS: Attestation of Vocational Specialization; AVE: Attestation of Vocational Education

1. Only persons having taken courses for which credits are earned for certification purposes are included. Persons enrolled in more than one program in the same year are counted only once.

2. Includes students 20 years of age or over in the youth sector.

*3.* For the adult sector only.

# *Personnel in school boards and CEGEPs by job category, based on full-time equivalents,*<sup>1</sup> 1997-1998 to 2004-2005

	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
School boards	104 462	106 630	108 772	111 464	113 184	115 751	116 203	115 590
Youth and adult sectors								
Teaching staff	70 366	71 152	71 288	71 918	71 984	72 820	72 606	71 593
Administrative staff	1 159	1 118	1 080	1 076	1 079	1 097	1 143	1 165
School principals	3 528	3 567	3 661	3 713	3 723	3 772	3 807	4 182
Managerial staff	671	663	685	680	698	721	730	735
Nonteaching professionals	3 898	3 897	4 003	4 208	4 453	4 810	4 926	4 991
Support staff	24 840	26 233	28 055	29 869	31 247	32 531	32 991	32 924
CEGEPs	19 570	19 692	19 869	20 491	20 636	20 744	20 609	20 319
Regular education and								
adult education								
Teaching staff	12 699	12 892	12 950	13 381	13 355	13 338	13 214	13 005
Administrative staff	583	595	622	651	690	717	724	640
Managerial staff	245	230	232	233	234	237	225	306
Nonteaching professionals	964	964	1 017	1 086	1 137	1 196	1 185	1 178
Support staff	5 079	5 01 1	5 048	5 140	5 220	5 256	5 261	5 190

Sources: Personnel des commissions scolaires (PERCOS II)

Système d'information sur le personnel des organismes collégiaux (SPOC-RFA)

1. All personnel activities carried out during the school year are included in the calculation of full-time equivalents for each job category.

# *Number of diplomas awarded, by level of education and type of diploma, 1996 to 2005*

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Secondary <sup>1</sup>	111 762	109 199	107 050	107 965	105 530	102 543	101 479	100 337	103 662	105 646
General education	86 451	80 289	77 315	76 992	73 482	71 799	68 492	66 498	68 352	68 868
Vocational training	25 311	28 910	29 735	30 973	32 048	30 744	32 987	33 839	35 310	36 778
College	42 363	44 906	45 395	46 410	51 023	52 750	53 655	52 852	52 299	50 993
DCS (pre-university education)	24 430	25 941	25 177	24 648	24 115	23 683	23 277	23 424	23 320	23 044
DCS (technical training)	16 174	16 748	16 814	17 631	17 986	17 998	18 732	18 165	17 970	16 931
DCS without mention	152	7	1				1	4		
ACS, CEC and DPEC <sup>2</sup>	1 607	2 210	3 403	4 131	8 922	11 069	11 645	11 259	11 009	11 018
University <sup>3</sup>	55 184	53 277	50 778	50 726	50 563	51 378	54 459	58 855	62 358	64 366
Bachelor's degree	29 602	28 894	27 475	28 284	27 822	27 973	28 897	29 818	31 553	32 117
Master's degree	6 547	6 514	6 727	6 814	7 468	7 692	7 946	9 003	9 515	10 002
Doctorate	1 087	1 143	1 231	1 170	1 165	1 094	1 036	1 134	1 217	1 278
Certificates and diplomas	17 948	16 726	15 345	14 458	14 108	14 429	16 139	17 840	18 931	19 580
Attestations and microprograms	N/A	N/A	N/A	N/A	N/A	190	441	1 060	1 142	1 389

Sources: Système de sanction des études appliquée au ministère de l'Éducation (SESAME) Sanction des adultes en formation générale (SAGE) Système d'information et de gestion des données sur l'effectif collégial (SIGDEC) Système de recensement des clientèles universitaires (RECU) Gestion des données sur les effectifs universitaires (GDEU)

DCS: Diploma of College Studies; ACS: Attestation of College Studies; CEC: Certificat d'études collégiales (certificate of college studies); DPEC: Diplôme de perfectionnement de l'enseignement collégial (diploma of advanced college studies)

1. From 1996-1997 to 2005-2006

2. Since 1994, there have been no new enrollments in programs leading to CECs and DPECs. ACSs are counted starting in 2001.

3. Excludes diplomas awarded by the Collège militaire Royal de Saint-Jean.

# Schooling rates,<sup>1</sup> by age, gender, level of education and attendance status, 2004-2005 (%)

	Preschool	Secondary		College		University		Total		
	and Elementary Education	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	All attendance statuses
4-year-olds										
Male	20.6	0.0	0.0	0.0	0.0	0.0	0.0	20.6	0.0	20.6
Female	20.8	0.0	0.0	0.0	0.0	0.0	0.0	20.8	0.0	20.8
Total	20.7	0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	20.7
5-year-olds										
Male	96.2	0.0	0.0	0.0	0.0	0.0	0.0	96.2	0.0	96.2
Female	98.8	0.0	0.0	0.0	0.0	0.0	0.0	98.8	0.0	98.8
Total	97.4	0.0	0.0	0.0	0.0	0.0	0.0	97.4	0.0	97.4
15-vear-olds										
Male	0.0	96.3	0.4	0.1	0.0	0.0	0.0	96.3	0.4	96.8
Female	0.0	97.9	0.1	0.1	0.0	0.0	0.0	98.0	0.1	98.2
Total	0.0	97.1	0.3	0.1	0.0	0.0	0.0	97.2	0.3	97.4
16-vear-olds										
Male	0.4	90.1	3.5	1.5	0.0	0.0	0.0	92.0	3.5	95.5
Female	0.2	91.8	2.5	2.4	0.0	0.0	0.0	94.4	2.5	97.0
Total	0.3	90.9	3.0	2.0	0.0	0.0	0.0	93.2	3.0	96.2
17-year-olds										
Male	0.7	39.9	12.0	31.2	0.1	0.5	0.0	72.3	12.1	84.4
Female	0.5	30.7	10.2	47.4	0.1	1.0	0.0	79.5	10.3	89.8
Total	0.6	35.4	11.1	39.1	0.1	0.7	0.0	75.8	11.2	87.0
18-vear-olds										
Male	0.6	24.0	11.7	34.0	0.4	3.3	0.1	62.0	12.2	74.2
Female	0.4	17.2	9.2	51.3	0.3	5.1	0.2	74.0	9.7	83.7
Total	0.5	20.7	10.5	42.5	0.3	4.2	0.2	67.9	11.0	78.9
19-vear-olds										
Male	0.5	17.2	9.1	24.6	1.1	10.7	0.5	53.0	10.7	63.7
Female	0.4	12.6	6.5	34.0	1.4	19.7	0.6	66.7	8.5	75.2
Total	0.4	14.9	7.8	29.2	1.3	15.1	0.5	59.7	9.6	69.3

1. Schooling rates are calculated by dividing the school population of a given age on September 30, 2004, by the population of the same age on the same date. The rates for 4-year-olds and 5-year-olds differ from the results published in Section 2.2 (see notes on this subject).

#### Table 6 (cont.)

# Schooling rates,<sup>1</sup> by age, gender, level of education and attendance status, 2004-2005 (%)

	Preschool and Elementary Education	Secondary		College		University		Total		
		Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	Full- time	Part- time	All attendance statuses
20-24-year-olds Male	0.3	7.7	5.4	7.1	1.0	15.2	3.2	30.3	9.7	40.0
Total	0.3	7.0	4.6	9.5 8.2	1.2	18.7	4.1	36.5 34.2	9.9 9.8	40.2 44.0
<b>25-29-year-olds</b> Male Female Total	0.3 0.4 0.4	3.3 3.4 3.4	3.3 2.1 2.7	1.4 2.2 1.8	0.4 0.6 0.5	5.1 5.4 5.2	3.6 5.8 4.7	10.1 11.4 10.7	7.2 8.6 7.9	17.3 20.0 18.6
<b>30-39-year-olds</b> Male Female Total	0.4 0.5 0.4	2.0 2.3 2.2	2.3 1.7 2.0	0.5 0.9 0.7	0.2 0.4 0.3	1.6 1.4 1.5	2.1 3.2 2.6	4.5 5.1 4.8	4.6 5.2 4.9	9.0 10.3 9.7
<b>40-49-year olds</b> Male Female Total	0.2 0.3 0.2	0.9 1.1 1.0	1.3 1.0 1.2	0.2 0.3 0.3	0.1 0.2 0.2	0.3 0.4 0.3	1.0 1.8 1.4	1.6 2.1 1.8	2.4 3.1 2.8	4.0 5.2 4.6
<b>50-59-year olds</b> Male Female Total	0.1 0.2 0.1	0.3 0.4 0.4	0.6 0.6 0.6	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	0.3 0.6 0.5	0.6 0.7 0.7	1.0 1.3 1.2	1.6 2.1 1.8
<b>60-year-olds +</b> Male Female Total	0.0 0.1 0.1	0.0 0.0 0.0	0.3 0.5 0.4	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.1 0.1 0.1	0.1 0.2 0.2	0.3 0.6 0.5	0.5 0.7 0.6

### NOTE

## NOTE

### NOTE



