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Canadian Government Debt A Guide to the Indebtedness of Canada and the Provinces

by Jared Alexander and Joel Emes



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Preface

Governments in Canada spend approximately 21 percent of their total revenues servicing the public debt. Finance Minister Paul Martin's recent announcement on February 24, 1998 of a balanced budget means that for the first time in nearly 20 years the federal debt will not increase. Six of the provinces have announced balanced budgets for the coming fiscal year; all plan to be in balance by the year 2001. A constant or declining stock of debt and growing national income will release an increasing fraction of revenues from servicing debt and allow it to contribute to future budget surpluses. We face a future in which the impact of government debt upon the economy can be considerably reduced. For this optimistic future to be realized, it is essential that governments and taxpayers continue to support a regime of fiscally responsible conduct. There are constant pressures on governments to deviate from a course of fiscal propriety as the unlimited demand for government programs collides with a limited capacity to raise tax revenues.

The purpose of this report on the public liabilities of Canada is to provide Canadians with an accessible account of the total indebtedness of each of the provinces and of the federal government. It is a reminder of the extent of our indebtedness, how jurisdictions compare both nationally and internationally, and how the national comparisons are changing as time passes.

One of the most striking revelations of the compilation of total government liabilities is that the optimistic picture that can be constructed for the direct debt is not matched by the outlook for other liabilities and, in particular, for future program obligations. These obligations include the promises to pay Canada/Quebec Pension Plan (CPP/QPP) benefits, Old Age

Security (OAS) pensions, and the medical care expenses of the population. While the direct debt of governments is beginning to decline as a fraction of our total national income, obligations are trending steadily upwards. There was a small drop in program obligations from 1996 to 1997, but these are the result of the recent reductions in the CPP/QPP unfunded liabilities, which more than offset the increased unfunded liabilities in Medicare and OAS.

Canadians are just beginning to recognize the significant challenge posed by these accumulating obligations and there are, as yet, no solutions proposed to deal with them. The recently enacted changes to the Canada Pension Plan (CPP) merely reduced the unfunded liability from \$600 billion to \$485 billion.

International comparisons help us to understand the true extent of our indebtedness; the only way to assess the seriousness of our indebtedness is to see how we rank compared with other countries. Certainly, that is how lenders assess country risk. In this report, we have carefully compiled statistics on the indebtedness of 138 countries against which Canada, the 10 provinces, and 2 territories can be compared. This comparison shows that Canada is among the most indebted countries of the world, both when compared to other affluent countries and to all countries.

This assessment of Canada's indebtedness demands caution, vigilance, and prudence. We must be cautious to ensure that we do not permit apathy to erode the recent gains in fiscal security. We must be vigilant that we do not assume new and larger obligations; we must be prudent in forming policies to deal with those that already exist.

Delay of the 1998 Debt Study

This study is dependent on Statistics Canada's Financial Management System (FMS). The FMS and Statistics Canada's System of National Accounts (SNA) were recently revised. The revision took longer than expected and caused several months delay of this study. Some of the data that we usually use for this report will not be updated until we are working on the 1999 edition; we have noted these data deficiencies in the applicable text.

Gross Domestic Product for Canada

The Gross Domestic Product (GDP) figures for Canada have been revised; the revised provincial GDP figures had not been released when this study was compiled. To maintain consistency, we make use of the "older" GDP figures for Canada and, therefore, the GDP figures presented in this study will not match those in recent Statistics Canada publications.

• • • • • • •

Introduction

Although Canadian governments are generally bringing their annual budget deficits under control, excessive debt persists. In this Critical Issues Bulletin, we summarize the total debt and liabilities for the various levels of government in Canada and provide an international debt ranking for Canada and the provinces. The study shows that Canadian federal and provincial governments not only have large debt but also a large and growing stock of total liabilities. A liability can be either a debt or an obligation; in the context of government finance, the distinction between the two is critical. Governments must repay debts (e.g. the money owed to bondholders) or they default on their loans. Governments can eliminate or reduce obligations (e.g. the Canada Pension Plan) through statutory changes that cancel or reduce the coverage of programs. Obligations are not debt; they are promises to perform certain duties or pay a stream of benefits in the future. Throughout this study, liability refers to debt plus obligations.

Organization of the study

This Critical Issues Bulletin contains four main sections:

 ALL INCLUSIVE GOVERNMENT LIABILITIES consolidates the liabilities—direct debt, indirect debt, and program obligations—of the three levels of government in Canada (for ease of exposition, later reference to provincial governments will imply both provincial and territorial governments)

- UNFUNDED LIABILITIES OF GOVERNMENT PROGRAMS
 discusses the unfunded liabilities of programs such as
 government employee pension plans, workers' compensation boards, retirement income support programs, and
 the health care system
- INTERNATIONAL COMPARISON compares the relative debt levels of 139 countries, the 10 provinces, and the two territories
- RECOMMENDATIONS provides a basic policy framework to resolve Canada's liability crisis.

The study also contains several appendices:

- APPENDIX A describes the methodology employed and data sources used in this study
- APPENDIX B and APPENDIX C provide detailed graphical and tabular presentations of the total liabilities of Canadian governments
- APPENDIX D gives the international debt ranking
- APPENDIX **E** is a list of readings that may be of interest.

Total government liabilities

The debt tables illustrate the type and extent of government liabilities. Table 1a shows the total government liability calculations broken down by level of government for Canada. (See Appendices B(1) through B(12) for the detailed debt tables of each province and territory.) Federal obligations are allocated to each province according to the share of federal tax revenues collected from each region. They could be allocated to the provincial governments based upon several other formulas including income per person, population, historical share of federal expenditures, and so forth. We use the share of federal tax revenues since it is a measure of the portion of the federal debt actually serviced by the province or territory. See Appendix A for

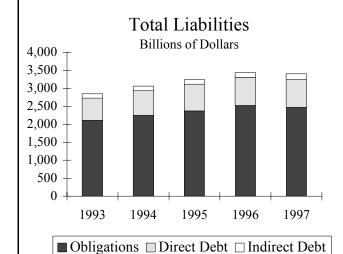
more details on methodology. Table 1b shows the growth and composition of total liabilities, the amount of direct debt owed per person and per taxpayer, and ratios of direct debt to exports and direct debt to Gross Domestic Product (GDP). Tables 1c and 1d provide the information in table 1b, broken down to the federal and provincial level.

Table 2 contains a five-year summary of liabilities, general economic statistics, revenues and debt charges, liability calculated per person and per taxpayer, and ratios of debt charges to GDP and exports. (See Appendices C(1) through C(13) for the detailed statistical summaries of the federal government and of each province and territory.)

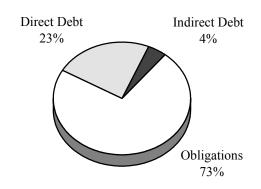
TABLE 1a: DEBT TABLES—CANADA (1997 estimate) (\$millions unless otherwise noted. Totals may not add due to rounding)

	Gross Liabilities	Financial Assets	Net Liabilities	Debt Charges
1. FEDERAL GOVERNMENT				
A. Federal Government Direct Debt	645,068	59,008	586,059	45,184
B. Federal Government Indirect Debt: Tax-Supported Federal Government Business Enterprises Federal Government Debt Guarantees Total Federal Government Indirect Debt	4,615 39,314 43,929	4,482 - 4,482	133 39,314 39,447	136
C. Federal Government Program Obligations: Canada Pension Plan CPP Unfunded Liabilities Old Age Security Unfunded Liabilities Federal Government Employee Pension Plans Total Federal Government Program Obligations TOTAL FEDERAL GOVERNMENT LIABILITIES	485,000 609,000 (25,553) 1,068,447 1,757,443	38,483 - - - - 38,483 101,973	(38,483) 485,000 609,000 (25,553) 1,029,964 1,655,470	- - - - - 45,320
2. PROVINCIAL GOVERNMENT				
A. Provincial Government Direct Debt	353,164	179,655	173,510	27,503
B. Provincial Government Indirect Debt: Provincial Government Debt Guarantees Total Provincial Government Indirect Debt	108,134 108,134		108,134 108,134	
C. Provincial Government Program Obligations: Unfunded Liabilities of the Medicare System Workers' Compensation Plans Provincial Government Employee Pension Plans Quebec Pension Plan QPP Unfunded Liabilities Total Provincial Government Program Obligations TOTAL PROVINCIAL GOVERNMENT LIABILITIES	1,209,000 13,908 68,939 - 161,667 1,453,514 1,914,812	14,437 - 14,437 194,091	1,209,000 13,908 68,939 (14,437) 161,667 1,439,077 1,720,721	- - - - - - 27,503
3. LOCAL GOVERNMENT				
A. Local Government Direct Debt	59,173	33,481	25,692	3,109
TOTAL LOCAL GOVERNMENT LIABILITIES	59,173	33,481	25,692	3,109
4. ALL GOVERNMENTS				
A. Total Direct Debt	1,057,405	272,144	785,261	75,796
B. Total Indirect Debt	152,063	4,482	147,581	136
C. Total Program Obligations	2,521,961	52,920	2,469,041	-
TOTAL ALL GOVERNMENT LIABILITIES	3,731,429	329,545	3,401,884	75,932

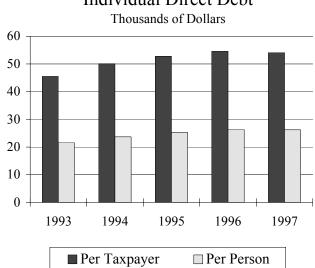
TABLE 1b: DEBT TABLES-CANADA



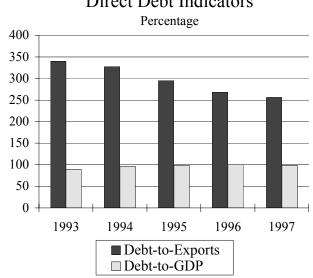
Components of Total Liabilities (1997)



Individual Direct Debt

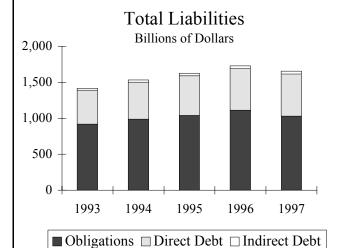


Direct Debt Indicators

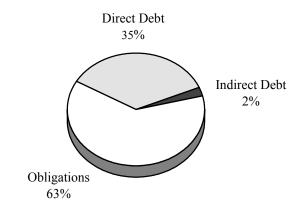


Liability Figures–Canada						
	1993	1994	1995	1996	1997	
Direct Debt (\$millions)	615,908	685,010	739,974	777,647	785,261	
Indirect Debt (\$millions)	122,686	127,882	132,337	139,798	147,581	
Obligations (\$millions)	2,110,343	2,249,051	2,372,501	2,522,193	2,469,041	
Total Liabilities (\$millions)	2,848,937	3,061,943	3,244,812	3,439,638	3,401,884	
Direct Debt Per Person (\$)	21,579	23,664	25,293	26,259	26,207	
Direct Debt Per Taxpayer (\$)	45,511	50,068	52,799	54,633	54,119	
Direct Debt-to-GDP	89.2%	96.1%	99.0%	100.2%	98.4%	
Direct Debt-to-Exports	339.9%	327.2%	295.0%	267.9%	256.2%	

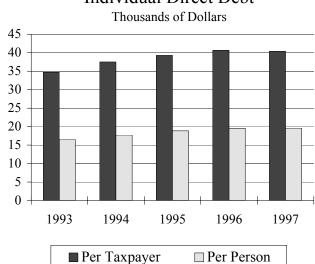
TABLE 1c: DEBT TABLES-FEDERAL GOVERNMENT



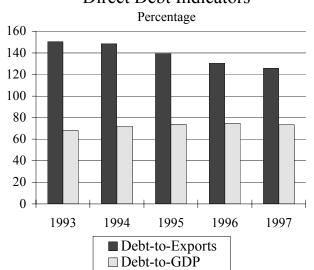
Components of Total Liabilities (1997)



Individual Direct Debt

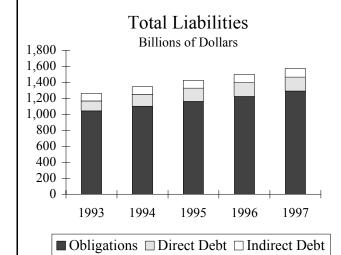


Direct Debt Indicators

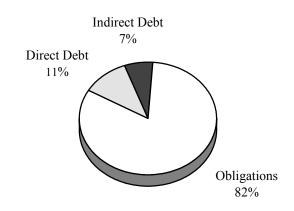


Liability Figures-Federal Government						
	1993	1994	1995	1996	1997	
Direct Debt (\$millions)	470,046	513,219	550,685	578,718	586,059	
Indirect Debt (\$millions)	27,927	31,731	34,830	37,267	39,447	
Obligations (\$millions)	919,688	987,709	1,039,900	1,113,086	1,029,964	
Total Liabilities (\$millions)	1,417,661	1,532,659	1,625,415	1,729,071	1,655,470	
Direct Debt Per Person (\$)	16,469	17,730	18,823	19,541	19,559	
Direct Debt Per Taxpayer (\$)	34,733	37,511	39,292	40,657	40,390	
Direct Debt-to-GDP	68.1%	72.0%	73.7%	74.5%	73.5%	
Direct Debt-to-Exports	150.4%	148.8%	139.4%	130.6%	125.7%	

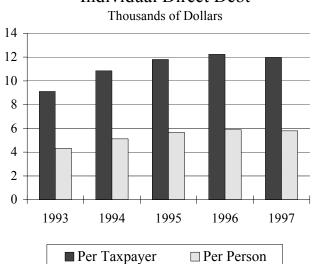
TABLE 1d: DEBT TABLES-ALL PROVINCES*



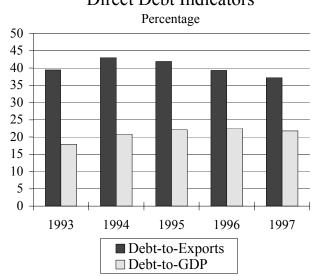
Components of Total Liabilities (1997)



Individual Direct Debt



Direct Debt Indicators



Liability Figures-All Provincial Governments*						
	1993	1994	1995	1996	1997	
Direct Debt (\$millions)	123,285	148,334	165,444	174,192	173,510	
Indirect Debt (\$millions)	94,759	96,151	97,507	102,531	108,134	
Obligations (\$millions)	1,043,653	1,101,075	1,162,138	1,223,643	1,291,847	
Total Liabilities (\$millions)	1,261,697	1,345,560	1,425,089	1,500,366	1,573,491	
Direct Debt Per Person (\$)	4,319	5,124	5,655	5,882	5,791	
Direct Debt Per Taxpayer (\$)	9,110	10,842	11,805	12,238	11,958	
Direct Debt-to-GDP	17.9%	20.8%	22.2%	22.5%	21.8%	
Direct Debt-to-Exports	39.4%	43.0%	41.9%	39.3%	37.2%	

^{*} including the Territories; excluding QPP

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Definitions

Gross debt refers to the total stock of securitized liabilities owed by a government. Gross debt statistics are used to determine the total burden of debt on taxpayers. Knowing gross debt is also useful when one considers the term-structure of debt.

Financial assets refers to those assets held by a government (e.g. securities and demand deposits) that are readily convertible into cash. Gross debt minus financial assets equals net debt.

Figures for *net debt* adjust liabilities to account for the financial resources that a government holds. For instance, two jurisdictions may have the same amount of gross debt but, if one has a greater stock of financial assets, it will have a smaller net debt. For comparative purposes, we use statistics for net debt throughout the document.

Debt charges refers to the interest costs associated with direct and indirect debt.

Table 1a is separated into four subsections: (1) federal government liabilities, (2) provincial government liabilities, (3) local government liabilities, and (4) a summary section of all government liabilities. The federal and provincial government sections have three categories of liabilities: (1) direct debt, (2) indirect debt, and (3) program obligations. The local government section only includes direct debt because statistics for other liabilities are not available. Throughout the following discussion, figures from the Ontario provincial government are cited to illustrate each category of liability.

Categories of liability

Direct debt

Direct debt refers to the accumulated debt incurred by a specific government and its agencies. Direct debt is the only category of liability in this study that constitutes a direct legal contract. The government enters into a contract with creditors to obtain funds for current financing in exchange for regular interest payments and repayment of the principal at some future date. Direct debt represents the amount that governments are legally bound to repay or face default.

Indirect debt

Indirect debt is the accumulated direct debt of quasi-governmental agencies for which the government is ultimately responsible. It is classified as indirect debt for the purposes of this study because the government may or may not have to repay it. Under normal circumstances, each agency's operations will generate the financial resources required to service its debt and only under exceptional circumstances, such as bankruptcy,

would the government have to assume the debt. However, since such circumstances can arise, it is necessary to acknowledge the direct debt of quasi-government agencies within the total liabilities of the government.

This category of liability includes debt guarantees of non-governmental firms and the debt of tax-supported government business enterprises (GBEs). The direct debt of hospitals could not be included this year because of problems with the data; the hospital category has been dropped from all years to maintain comparability. The direct debt of post-secondary institutions is not included because data were not available.

Government Business Enterprises (GBEs)

This study includes only those firms that Statistics Canada has defined as tax-supported, i.e., "enterprises which continually incur operating losses funded through loans from their parent government" (Statistics Canada 1998b). Only GBEs supported by the federal government are included in this years report as Statistics Canada was unable to provide the necessary information on the provinces in time for publication. The revision of Statistics Canada's Financial Management System (FMS) saw many tax-supported GBEs reclassified as "special funds" of the parent government. For example, the Canadian Broadcasting Corporation is classified as a "special fund" of the federal government under the revised FMS; it used to be classified as a federal tax-supported GBE. This reclassification has sharply reduced the importance of the tax-supported GBE section in this study. As a result, the exclusion of provincial tax-supported GBEs has a small impact on total government debt.

Debt guarantees

Debt guarantees are issued by governments on behalf of privately held companies to stabilize those companies, provide venture capital, or lure firms to locate within a specific region by offering preferential financing. In the event that the firm fails, a debt guarantee would become a claim on government revenues.

Table 3 summarizes total and per-person debt guarantees granted by the federal and provincial governments. The amount of the guarantees varies considerably among provincial jurisdictions. For instance, Quebec has almost \$48 billion in debt guarantees while British Columbia has only \$3.7 billion. The per-person figures better illustrate these regional differences: Quebec has the highest level of debt guarantees at \$6,453 per person while Prince Edward Island has only \$43 per person. It is difficult to predict, however, how many firms will default and to what extent lenders will require governments to cover debt servicing.

The principal problem with both GBEs and debt guarantees is that they create distortions in the marketplace. Firms rejected in the marketplace by entrepreneurs and investors use

	1992/93	1993/94	1994/95	1995/96	1996/97
Liability Summary (\$ Millions):					
Total Direct Debt	615,908	685,010	739,974	777,647	785,261
Total Indirect Debt	122,686	127,882	132,337	139,798	147,581
Total Program Obligations	<u>2,110,343</u>	<u>2,249,051</u>	<u>2,372,501</u>	<u>2,522,193</u>	2,469,041
Total Liabilities	2,848,937	3,061,943	3,244,812	3,439,638	3,401,884
General Economic Statistics:					
Population (Thousands)	28,542	28,947	29,256	29,615	29,964
Taxpayers (Thousands)	13,533	13,682	14,015	14,234	14,510
Gross Domestic Product (\$ Millions)	690,122	712,855	747,260	776,299	797,789
GDP Per Person (Dollars)	24,179	24,626	25,542	26,213	26,625
Exports of Goods and Services (\$ Millions)	181,189	209,370	250,877	290,325	306,534
Exports / GDP	26.3%	29.4%	33.6%	37.4%	38.49
Government Revenues (\$ Millions):					
Federal Government	131,548	130,044	137,456	142,854	153,769
Total Provincial & Territorial Governments	146,458	150,044	161,766	169,582	170,493
Total Local Governments	<u>37,314</u>	38,011	<u>39,299</u>	<u>40,386</u>	38,903
Total	315,320	320,371	338,520	352,822	363,165
Government Debt Charges (\$ Millions):					
Federal Government	39,292	37,899	41,927	46,692	45,184
Total Provincial & Territorial Governments	21,642	24,730	26,657	27,748	27,503
Total Local Governments	<u>3,220</u>	3,223	<u>3,204</u>	3,189	3,109
Total	64,154	65,851	71,787	77,629	75,796
ndicators of Debt Charges:					
Federal Debt Charges / Federal Revenues	29.9%	29.1%	30.5%	32.7%	29.49
Provincial Debt Charges / Provincial Revenues	14.8%	16.2%	16.5%	16.4%	16.19
Local Debt Charges / Local Revenues	8.6%	8.5%	8.2%	7.9%	8.09
Total Debt Charges / Total Revenues	20.3%	20.6%	21.2%	22.0%	20.99
Total Debt Charges / GDP	9.3%	9.2%	9.6%	10.0%	9.5%
Total Debt Charges / Exports	35.4%	31.5%	28.6%	26.7%	24.79
Per Person Liability Figures (Dollars):					
Total Direct Debt	21,579	23,664	25,293	26,259	26.207
					26,207
Total Indirect Debt	4,298	4,418	4,523	4,720	4,925
Total Program Obligations	<u>73,938</u>	77,695	81,095	<u>85,166</u>	82,400
Total Liabilities	99,816	105,778	110,911	116,145	113,532
Per Taxpayer Liability Figures (Dollars):					_
Total Direct Debt	45,511	50,068	52,799	54,633	54,119
Total Indirect Debt	9,066	9,347	9,442	9,821	10,171
Total Program Obligations	<u>155,939</u>	<u>164,384</u>	<u>169,282</u>	<u>177,194</u>	<u>170,163</u>
Total Liabilities	210,516	223,799	231,523	241,649	234,453
GDP Indicators:					
Total Direct Debt / GDP	89.2%	96.1%	99.0%	100.2%	98.49
Total Program Obligations / GDP	305.8%	315.5%	317.5%	324.9%	309.5%
Total Liabilities / GDP	412.8%	429.5%	434.2%	443.1%	426.49
Exports Indicators:					
Total Direct Debt / Exports	339.9%	327.2%	295.0%	267.9%	256.2%
Total Program Obligations / Exports	1164.7%	1074.2%	945.7%	868.7%	805.5%
Total Liabilities / Exports	1572.4%	1462.5%	1293.4%	1184.8%	1109.8%

Table 3: Debt Guarantees						
Province/Territory	Total Debt Guar- antees (\$millions)					
Prince Edward Island	6	43				
Manitoba	430	376				
Saskatchewan	571	559				
New Brunswick	569	745				
British Columbia	3,708	962				
Federal Government	39,314	1,312				
Northwest Territories	105	1,573				
Yukon Territory	55	1,760				
Newfoundland	1,381	2,418				
Nova Scotia	2,294	2,433				
Ontario	39,542	3,514				
Alberta	11,798	4,229				
Quebec	47,676	6,453				

Source: Statistics Canada, Financial Management System; Statistics Canada, Provincial Economic Accounts; calculations by author.

debt guarantees and subsidies to secure financing for on-going operations or expansion. Government intervention eliminates the discipline of the marketplace that allows profitable firms to flourish while forcing unproductive firms to improve or fail. Governments actively divert investment capital away from firms that the market favours towards firms that the government identifies as priorities.

Program obligations

This category of liability is the most complex and difficult to describe. In general, obligations encompass annually financed programs and benefits that a government has committed itself to providing in perpetuity. Examples include the Canada and Quebec Pension Plans, the Old Age Security Program, pension plans for civil-service employees, Workers' Compensation Boards, and the health-care system. We did not include post-secondary education and programs such as Spouse's Allowance and the Guaranteed Income Supplement because data were not available.

Appendixes B and C

Appendix B has a total liability section similar to Table 1a and a graphical section similar to Table 1b for each province and territory.

The graph, Total Liabilities, illustrates both the composition and overall growth in total liabilities from 1993 to 1997.

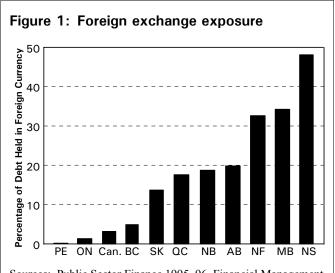
The graph, Components of Total Liabilities, shows the composition of total liabilities for 1997. The graph, Individual Direct Debt, depicts the level of direct debt per person and per taxpayer. The Direct Debt Indicators illustrate the ratios of direct debt to GDP and direct debt to exports. The table at the bottom of the page provides the data underlying the graphs. Table 2 for Canada as a whole and Appendix C for the federal government and for each province include several other ratios and statistics, such as general economic indicators, government revenues, and debt charges.

Foreign currency exposure

A significant portion of the debt of many provinces is denominated in foreign currency. The necessity to pay interest on, and ultimately redeem bonds issued in, foreign currencies imposes an additional risk on taxpayers. A significant deterioration in the value of the Canadian dollar correspondingly increases the cost of servicing the debt in foreign currency; a rise in its value reduces these costs. In general, this means that the provinces are "speculating" on exchange markets unless, like Alberta and British Columbia, they receive revenues such as resource royalties that are themselves effectively linked to the exchange rate. Figure 1 illustrates the proportion of total debt that each province holds in foreign currencies.

Interest charges

Interest represents the cost of past consumption that has been financed through deficit spending. In 1997, Canadian govern-



Sources: Public Sector Finance 1995–96, Financial Management System, Statistics Canada

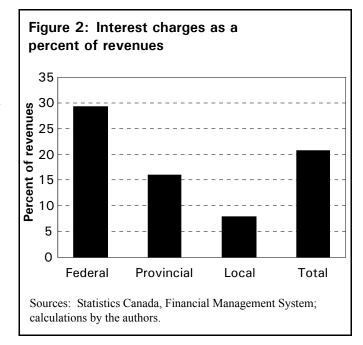
ments spent almost \$76 billion on interest payments; that is, 9.5 percent of GDP and 24.7 percent of exports. Figure 2 illustrates the proportion of government revenues consumed by interest charges. Debt servicing costs account for 29.4 percent of federal government revenues, 16.1 percent of provincial revenues, and 8.0 percent of local revenues. Interest costs account for 20.9 percent of total government revenues.

Figure 3 shows, by province, the share of government revenues allocated to interest payments for provincial and local governments. Provincial debt charges vary considerably, from 0.5 percent in the Northwest Territories to 20.9 percent in Saskatchewan. Local debt charges vary from 1.5 percent in the Yukon to 18.0 percent in Newfoundland. This expense to current taxpayers illustrates the cost of program spending or tax cuts foregone in order to service the costs of previous deficit-financed program expenditures.

Total liabilities

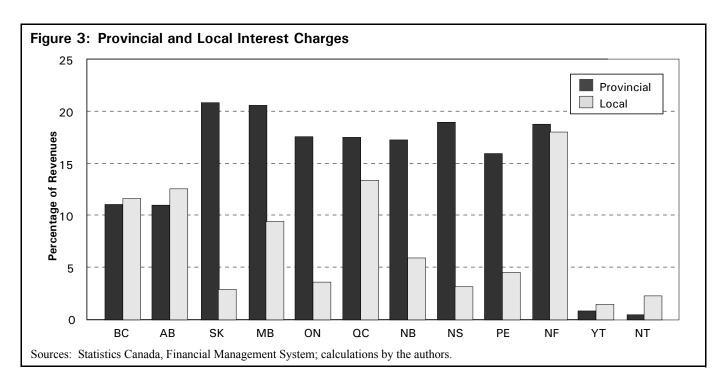
The statistics on Canada's debt describe a bleak situation (tables 1 and 2). Total liabilities per person, including direct debt, indirect debt, and program obligations, amount to \$113,532 for every Canadian citizen or \$234,453 for each taxpayer.

The level of total liabilities accumulated by Canadian governments is enormous. The total liabilities for Canada represent 426 percent of GDP and 1,110 percent of exports. These statistics show that Canadian governments have accumulated an unsustainable level of liability: even if governments taxed 100 percent of every dollar of income generated,



it would take over four years to pay back the debt and fully fund all programs.

The notion that Canadians owe \$600 billion (the approximate federal debt) ignores federal obligations and indirect debt as well as all the liabilities of the provincial and local governments. *Total government liabilities actually amount to just over* \$3.4 trillion. The changes that federal and provincial governments have already made to deal with this debt are only a small fraction of the changes that must be made. A significant restructuring of government programs is unavoidable.



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Unfunded liabilities of government programs

Many programs in Canada—retirement income support plans (CPP/QPP and OAS), workers' compensation boards, the health-care system, and pension plans for civil-service employees—have unfunded liabilities. These programs are government obligations or promises to provide benefits in the future.

tions can cause significant deviations in the results. The purpose of the valuation is to determine the current long-term deficit or surplus. Actuaries normally conduct valuations every three years to modify assumptions based on new economic conditions. All past and current unfunded liability figures in this report make use of consistent assumptions.

Funding structure

These programs are designed like insurance plans: individuals contribute to a program for a specified period of time, accumulating benefits that are to be received at a later date. Unfortunately, only the workers' compensation boards and pension plans for civil-service employees operate on an accumulated-benefit formula. The remaining programs are funded on a payas-you-go system. Rather than accumulate funds in individual personal accounts for future payment, current contributions are used to pay the benefits of current recipients.

The source of funds also varies among programs. The Canada and Quebec Pension Plans, the pension plans for civil-service employees, and the workers' compensation boards derive their funding from direct payroll deductions. Old Age Security and the health-care system are financed through general government tax revenues.

Analysis of unfunded liabilities

The essence of an analysis of unfunded liabilities is the actuarial valuation. This valuation assesses the ability of a program to finance the stated benefits for a specific time given the contribution rates, expected investment returns, and specific economic and demographic assumptions. For instance, the Ontario government currently has a large unfunded liability for its Teachers' Pension Plan. Actuarial calculations show that the Ontario government would have to add \$8.4 billion to the fund today to cover all of its stated future pension obligations (see the box in Table 4).

Actuarial valuations are extremely sensitive to their underlying assumptions. For this report, the assumptions for most program valuations are: inflation 3.5 percent, wage growth 4.5 percent, and interest rate 6.0 percent. Changes in these assump-

Pension plans for government employees

The federal and provincial governments have benefit funds for their pension plans for government employees and the workers' compensation programs. Table 4 summarizes the most recently available actuarial valuations for the provincial and federal governments' pension plans. Most provincial governments have committed themselves to the elimination of the actuarial deficits by a set deadline, and the federal government currently maintains a surplus of about \$25.6 billion.

Workers' compensation boards

There is a wide disparity in the liability status of workers' compensation boards within Canada. Five of the 12 boards currently possess a surplus. Four regions have removed the workers' compensation boards from government control and have established an arms-length management approach.

Retirement income support programs and the health-care system

The unfunded liabilities of most pressing concern are the retirement programs and the health-care system. At their inception, both programs were based upon similar assumptions and philosophies. It was assumed that the population demographics, rate of economic growth, and wage increases of the 1960s would continue indefinitely. It was considered favourable social and economic policy to transfer a small amount of money from a large group of younger workers to benefit a small group of relatively poor retirees.

TABLE 4: UNFUNDED LIABILITIES OF CIVIL SERVICE	EMPLOYEE PENSION PLANS (in mil Valuation Date	lions of dollars) Unfunded Liabilities
FEDERAL GOVERNMENT Public Service Pension Plan Canadian Forces Pension Plan Royal Canadian Mounted Police Pension Plan Members of Parliament Retiring Allowance Federally Appointed Judges TOTAL	March 31, 1996 December 31, 1993 March 31, 1996 March 31, 1995 March 31, 1995	(11,476) (12,382) (2,295) (38) 638 (25,553)
PROVINCIAL / TERRITORIAL GOVERNMENTS:		
BRITISH COLUMBIA Teachers' Pension Plan Municipal Pension Plan Public Service Pension Plan College Pension Plan TOTAL	December 31, 1993 December 31, 1994 March 31, 1996 August 31, 1994	1,780 1,310 (222) <u>28</u> <u>2,896</u>
ALBERTA Teachers' Pension Plan Public Service Pension Plan Public Service Management Pension Plan Local Authorities Pension Plan Universities Academic Pension Plan Special Forces Pension Plan Management Employees Pension Plan Members of the Legislative Assembly Pension Plan TOTAL	August 31, 1995 December 31, 1995 December 31, 1994 December 31, 1995 December 31, 1996 December 31, 1995 December 31, 1994 December 31, 1994	3,666 280 660 84 97 39 87 <u>57</u> 4,969
SASKATCHEWAN Teachers' Superannuation Fund Public Service Superannuation Fund Others TOTAL	June 30, 1995 December 31, 1996 Various	2,302 1,175 54 3,530
MANITOBA Teachers' Plan Civil Service Plan Members of the Legislative Assembly Plan TOTAL	January 1, 1996 December 31, 1995 September, 1997	1,313 828 28 2,169
ONTARIO Teachers' Pension Plan Public Service Pension Plan Other Plans TOTAL	December 31, 1996 December 31, 1995 Various	8,400 2,229 324 10,953

TABLE 4 continued	Valuation Date	Unfunded Liabilities
QUEBEC		
RREGOP	March 31, 1997	15,892
TPP & PPCT	March 31, 1997	7,029
CSSP	March 31, 1997	1,418
Other	March 31, 1997	<u>2,136</u>
Total Reported by Provincial Government	March 21, 1007	26,475
Auditor General's Adjustment TOTAL	March 31, 1997	<u>12,458</u>
TOTAL		38,933
NEW BRUNSWICK		
Teachers' Pension Plan	April 1, 1993	756
Public Service Pension	April 1, 1993	420
Early Retirement	March 31, 1996	54
Other (Judges', Members', Hospitals & Schools)	Various	22
TOTAL		<u>1,252</u>
NOVA SCOTIA		
Teachers' Pension Plan	July 31, 1994	824
Members Retiring Allowance	August 31, 1996	41
Early Retirement Incentive Program	March 31, 1997	115
War Service & Other Non-Contributory Service Plans	March 31, 1997	16
Public Service Superannuation Fund	March 31, 1995	135
Judges' Pension Supplement	March 31, 1997	8
Sysco Pension Plan	December 31, 1996	33
TOTAL		<u>1,172</u>
PRINCE EDWARD ISLAND		
Teachers' Superannuation Fund	July 1, 1996	79
Civil Service Superannuation Fund	April 1, 1996	31
MLA Pension Fund (Combined)	April 1, 1997	<u>(3)</u>
TOTAL		<u>107</u>
NEWFOUNDLAND & LABRADOR		
Teachers' Plan	August 31, 1996	1,491
Public Service Plan	December 31, 1994	1,242
Uniformed Services Plan	December 31, 1993	171
MHA Plan	December 31, 1994	<u>39</u>
TOTAL		<u>2,943</u>
YUKON TERRITORY*		
Legislative Assembly Retirement Allowance Plan	March 31, 1996	(754)
TOTAL		$\frac{(754)}{(754)}$
		· —
NORTHWEST TERRITORIES*	M 1 21 1007	14.606
Legislative Assembly Supplementary Allowance	March 31, 1997	14,626
Judges' Supplemental Pension Plan	March 31, 1997	623
TOTAL		<u>15,249</u>
* NOTE: Territorial assessments are expressed in thousands rathe Sources: Federal and provincial Public Accounts; various Department		

These assumptions were wrong. Birth rates have declined, income growth has stagnated, and mortality rates have decreased. In 1966, the ratio of Canadians under 20 to Canadians over 65 was 5.5 to 1. This ratio decreased to 2.3 by 1995 and is expected to decline further to 1.1 by the year 2030 (Canadian Institute of Actuaries 1995: 2). A more alarming trend is the relationship between workers and retirees. In 1995, seniors represented 19.8 percent of the working age population but this figure is expected to increase dramatically to 38.9 percent by 2030 (Canadian Institute of Actuaries 1995: 2). These demographic changes have undermined the ability of the retirement programs and the health-care system to provide the intended level of benefits; and will continue do so.

Because of these demographic changes, the policy of transferring a small amount of money from a large group of younger workers to benefit a small group of relatively poor retirees has become, in fact, a policy of using large deductions from a small group of workers with stagnant incomes to sustain a large group of relatively wealthy retirees. The Fraser Institute's study on inter-generational accounts (Good 1995) shows that the tax rates implied by all of the different transfers that we expect to get from our working population by the time the last of the "baby boomers" retires in 2030 is simply unsustainable.

Table 5 shows a summary of the unfunded liabilities from 1991 to 1997 of the various retirement income support programs and the health-care system. This section considers health care along with retirement income support programs since seniors currently consume approximately 50 percent of all health care expenditures. This rate is expected to increase to almost 67 percent by 2030 (Good 1995: 16).

These unfunded liabilities are enormous obligations. Current estimates of the unfunded liabilities of the federal retirement income support programs and the health-care system exceed 293 percent of the total direct debt of all governments in Canada and 289 percent of GDP. The actuarial valuations for these programs may be overstated because taxes used to finance expenditures are not fully incorporated into the valuation process. For example, income taxes collected from seniors in 1992 covered about 25 percent of the cost of their

OAS and health care benefits. If we use an assumption from *Troubled Tomorrows* (Canadian Institute of Actuaries 1995: C2), namely, that other taxes paid by seniors cover the cost of the other benefits they receive, we could reduce the estimated accrued OAS and health care liabilities by 25 percent. This would more accurately reflect the unfunded OAS and health-care liabilities that must be borne by future generations. The adjustment is not reflected in this years' calculations as further research is necessary to determine precisely how much of the cost of OAS and health care is covered by taxes paid by seniors.

Even if the unfunded liabilities can legitimately be reduced by 25 percent, they are still an enormous burden. Restructuring retirement income support programs should be initiated immediately to eliminate the inter-generational wealth transfer and to ensure that needy seniors do not suffer for the policy mistakes of government. Health-care funding is primarily provided through general tax revenue even though it is consumed according to a normal insurance pattern. There continues to be lengthy waiting lists for a wide range of procedures in every province and an aging population will place tremendous pressures on the health-care system. Unless governments make changes soon, these pressures will inevitably lead to higher general tax rates or a further reduction in services.

Year	CPP*	OAS	Medicare	Total
1991	420.4	445.0	867.0	1,732.4
1992	454.0	470.0	917.0	1,841.0
1993	487.5	488.0	969.0	1,944.5
1994	527.3	515.0	1,024.0	2,066.3
1995	555.5	544.0	1,082.0	2,181.5
1996	600.1	576.0	1,144.0	2,320.1
1997	485.0	609.0	1,209.0	2,303.0
Average Annual Growth	3.0%	5.4%	5.7%	4.9%

^{*} The 1997 value reflects Bill C-2.

Source: Special Report for The Fraser Institute, June 1996 and January 1998, Actuarial Services Division, Office of the Superintendent of Financial Institutions Canada, Ottawa, Canada.

International comparison

One way to assess the indebtedness of a nation is to compare it to other nations. Accordingly, a standard feature of the annual calculation of the total liabilities of Canadian governments has been a comparison with the debt levels of other countries.

Countries are compared using the amount of debt per person within a country compared to the discretionary income per person (the level of income earned above the subsistence level). This method of assessing debt levels by including income statistics takes into account the ability of nations to service their debt.

Table 6 ranks jurisdictions from best to worst on the basis of their debt calculated as a percentage of discretionary income. For instance, Ontario ranks 86th out of 151 jurisdictions with a ratio of 74.9 percent. This means that the debt per person accumulated by Ontario represents 74.9 percent of the average person's total annual income less an allowance for a minimum level of subsistence.

To compare jurisdictions in the same income groups, with similar income and consumption patterns, countries are separated according to their income levels per person using modified World Bank classifications (see Appendix D).

The ranking shows several interesting results. Norway, South Korea, and Finland, which took the top three spots in the overall ratings, have governments that are net providers of capital. All three governments have negative net debt, as indicated by the negative ratio in Table 6, since they have more financial assets than gross debt.

At the bottom of the ranking, Rwanda, Chad, Burundi, Malawi, Tanzania, Mozambique, and Ethiopia all reported negative discretionary income levels. In other words, the average citizen in these countries does not earn the level of income necessary for subsistence. The annual study of human development by the United Nations (United Nations Development Programme 1997) provides further evidence of the poverty in these particular countries. It reports that the average life expectancy in these countries is 42.7 years. The average life expectancy for all developing countries is 61.8 years. In addition, these nations fall below the subsistence level of daily caloric intake: a subsistence diet is 2,869 calories but average consumption in these seven countries is only 1,841 calories. The United Nations study corroborates the findings of this study; that these countries are being crushed by debt and an inability to generate income.

Ten of the 14 former Soviet republics—Estonia, Belarus, Latvia, Uzbekistan, Ukraine, Lithuania, Turkmenistan, Azerbaijan, Armenia, and Kazakhstan—rank within the top 20. In fact, former Soviet republics dominate the top 10, occupying positions 4 through 7, 9 and 10. The principal reason for their success is the Zero Option Agreement (1993), by which the newly formed Commonwealth of Independent States (CIS) assumed all the debt of the former Soviet Union while the new republics forfeited all claims against assets of the former Soviet Union (Boote et al. 1995: 81). In this study, the entire stock of external debt for the former Soviet republics consists of debt accumulated since 1993; the external debt of these countries stood at \$15.3 billion by the end of 1994. The bulk of the debt was issued to "transform and stabilize the economy" and "finance imports" (Boote et al. 1995: 82). External debt grew to \$21.2 billion in 1995. The former Soviet republics currently have an advantage due to their relatively small debt stock. However, if they continue to accumulate debt as quickly as they have been, they will erode this advantage.

The results for Canada and the provinces are remarkably poor. The Yukon ranks the highest of any Canadian region at 46th while Newfoundland ranks the lowest at 98th. Table 7 summarizes the ranking of each region in Canada.

More important than the overall rankings are the relative rankings generated from the specific comparison with other high-income nations belonging to the Organisation for Economic Cooperation and Development (OECD) (see Appendix D[1]). Canada ranks third lowest; only Italy and Belgium rank lower. Among the G-7 nations, Canada is second to last and, while Canada is considerably above Italy, it is also significantly below the other G-7 nations. Japan ranks eighth overall, and first among G-7 nations with a ratio of debt to discretionary income per person of 11.9 percent while Canada ranks 81st overall and sixth in the G-7 with a ratio of 70.3 percent.

Implications

Canada has few options in selecting a strategy for eliminating its deficits and debt. Since tax rates are high compared to those of other G-7 nations, only spending reductions can be used to eliminate debt without affecting global competitiveness. In a

Table 6: Debt as a percentage of discretionary income (1995)

Rank	Country	Percent
1	Norway	(23.5)
2	Korea, Rep.	(20.9)
3	Finland	(10.4)
4	Estonia	8.4
5	Belarus	8.8
6	Latvia	8.8
7	Uzbekistan	9.4
8	Japan	11.9
9	Ukraine	11.9
10	Lithuania	12.5
11	Turkmenistan	12.7
12	Fiji	13.1
13	Azerbaijan	15.3
14	Botswana	17.2
15	Armenia	17.3
16	Slovenia	19.2
17	Kazakhstan	20.2
18	Romania	21.2
19	Croatia	21.3
20	Sweden	24.1
21	Brazil	24.1
22	St. Lucia	24.3
23	China	24.7
24	Moldova	25.4
25	St. Kitts and Nevis	25.9
26	Guatemala	26.1
27	Oman	26.6
28	Kyrgyz Republic	27.4
29	Swaziland	27.7
30	Australia	28.5
31	Lebanon	28.5
32	Colombia	29.9
33	El Salvador	30.6
34	Uruguay	30.7
35	Argentina	32.7
36	Paraguay	33.3
37	Barbados	35.3
38	Slovak Republic	35.5
39	Thailand	36.3

Rank	Country	Percent
40	France	36.7
41	Russian Federation	37.7
42	Poland	38.2
43	Iceland	38.4
44	Czech Republic	38.7
45	Chile	39.5
46	YUKON TERRITORY	40.7
47	Malaysia	42.1
48	United Kingdom	42.1
49	Dominican Republic	43.3
50	Dominica	43.5
51	Grenada	43.5
52	Costa Rica	44.1
53	Albania	44.4
54	Denmark	44.8
55	Germany	45.2
56	Netherlands	46.1
57	Tonga	46.3
58	Turkey	47.9
59	United States	48.2
60	NORTHWEST TERRITORIES	48.2
61	Belize	48.4
62	Mauritius	48.5
63	Bhutan	49.3
64	Spain	49.9
65	Austria	50.1
66	Trinidad and Tobago	50.2
67	Venezuela	50.4
68	Solomon Islands	54.7
69	ALBERTA	54.9
70	Peru	58.1
71	BRITISH COLUMBIA	59.0
72	Papua New Guinea	59.1
73	Tunisia	60.6
74	India	60.9
75	SASKATCHEWAN	63.8
76	Philippines	64.0
77	Indonesia	66.3
78	Djibouti	68.7

Table 6 continued: Debt as a percentage of discretionary income (1995)

Rank	Country	Percent	
79	Maldives	68.9	
80	MANITOBA	69.2	
81	Canada	70.3	
82	Mexico	71.1	
83	Tajikistan	71.5	
84	QUEBEC	74.0	
85	Hungary	74.7	
86	ONTARIO	74.9	
87	PRINCE EDWARD ISLAND	75.4	
88	Macedonia, FYR	76.4	
89	NEW BRUNSWICK 76.5		
90	Morocco 80.4		
91	Pakistan	81.8	
92	Sri Lanka	85.7	
93	St. Vincent and the Grenadines	87.2	
94	Ecuador	88.1	
95	Georgia	89.0	
96	NOVA SCOTIA	89.4	
97	Algeria 89.8		
98	NEWFOUNDLAND	90.6	
99	Egypt, Arab Rep.	92.8	
100	Lesotho 98.		
101	Gabon	100.0	
102	Bulgaria 100.5		
103	Panama	103.6	
104	Jamaica	108.2	
105	Zimbabwe 108.4		
106	Haiti 110.3		
107	Bolivia	110.3	
108	Italy	110.8	
109	Senegal 115.9		
110	Mongolia 124.9		
111	Belgium 125.3		
112	Guinea	130.7	
113	Comoros 149.4		
114	Syrian Arab Republic 150.1		
115	Honduras	160.1	

Rank	Country Percent		
116	Uganda 166.0		
117	Cameroon 170.0		
118	Nigeria	174.0	
119	Kenya	175.3	
120	Central African Republic	178.5	
121	Ghana	184.2	
122	Cambodia	216.8	
123	Bangladesh	227.6	
124	Gambia, The	235.4	
125	Lao PDR	249.7	
126	Cote d'Ivoire 252.3		
127	Zambia 282.0		
128	Togo 288.6		
129	Burkina Faso	297.6	
130	Equatorial Guinea	307.5	
131	Yemen, Rep.	311.3	
132	Congo	358.7	
133	Mauritania	378.6	
134	Vietnam	383.7	
135	Guyana	475.5	
136	Mali	479.2	
137	Madagascar	615.0	
138	Angola 655.9		
139	Nepal 785.8		
140	Niger	787.3	
141	Nicaragua	836.5	
142	Sao Tome and Principe	1,266.7	
143	Guinea-Bissau	1,467.6	
144	Sierra Leone	2,180.7	
145	Ethiopia	(103.7)	
146	Mozambique	(388.0)	
147	Tanzania	(402.3)	
148	Malawi	(667.9)	
149	Burundi	(1,373.5)	
150	Chad	(2,171.5)	
151	Rwanda	(2,310.5)	

Sources: OECD 1997a; World Bank 1997; Statistics Canada, Canadian Federal and Provincial government budgets, calculations by authors.

Note: Rwanda, Chad, Burundi, Malawi, Tanzania, Mozambique, and Ethiopia all reported negative discretionary income levels; the average citizen in these countries does not earn the level of income necessary for subsistence.

recent study by the Canadian Institute of Actuaries, Canada ranked first in personal income tax, second in indirect and "other" taxes, fourth in corporate taxes, and last in payroll taxes (Canadian Institute of Actuaries 1995: 20). A recent OECD publication (OECD 1997b) shows that, excluding social security taxes, Canadians already pay 1.4 percentage points more of their income to government than the average citizen of the European Community. Lower social-security taxes in Canada are due mostly to the fact that our population is younger. When the promises we have made to ourselves about social security and health care have to be delivered, the tax burden of Canadians will increase dramatically—witness the recent CPP/QPP reforms that will increase public pension contributions from 6 percent to 9.9 percent, the largest tax increase in Canadian history.

The relatively high level of Canadian and provincial debt offers an explanation for the higher-than-average

interest rates and persistently high unemployment rates in our recent past. While debt is not the sole cause of high interest rates or unemployment, it is certainly a contributing factor. Interest is the payment demanded by individuals who forego current consumption and make their savings available to bor-

rowers. When the risk of default is high, higher interest rates (risk premiums) compensate these lenders. As government debt increases relative to the size of revenues, the risk of default increases and the risk premium goes up; increasing debt places upward pressure on interest rates.

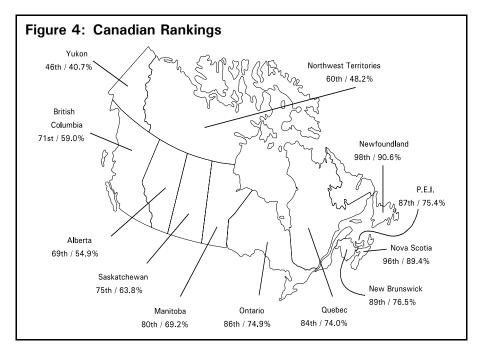
A high interest rate is a key contributor to unemployment since businesses postpone borrowing for investment projects. A recent publication from the Canadian Centre for Policy Alternatives (an Ottawa-based, labour-supported, think tank), notes the damaging effects of high interest rates on job creation (Cameron and Finn 1998: 18–19). This report also highlights the need for a plan to reduce interest rates, to reduce the stock of

Table 7: Canadian Rankings, 1995

Rank in Canada	Rank in world	Region	Debt to GDP (%)	Debt to Discretion- ary Income (%)
1	46	Yukon Territory	40.4	40.7
2	60	Northwest Territories	47.9	48.2
3	69	Alberta	54.5	54.9
4	71	British Columbia	58.5	59.0
5	75	Saskatchewan	63.2	63.8
6	80	Manitoba	68.5	69.2
7	81	Canada	69.6	70.3
8	84	Quebec	73.3	74.0
9	86	Ontario	74.3	74.9
10	87	Prince Edward Island	74.4	75.4
11	89	New Brunswick	75.6	76.5
12	96	Nova Scotia	88.2	89.4
13	98	Newfoundland	89.3	90.6

Sources: OECD 1997a; World Bank 1997; Statistics Canada, Canadian Federal and Provincial government budgets, calculations by authors.

debt relative to the size of the economy, and to eliminate the default-risk premium. Recently, the decrease in the rate at which Canadian governments are accumulating debt and the increasing focus on fiscal responsibility has lessened the upward pressure on interest rates.



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Recommendations

Alberta, Saskatchewan, Manitoba, Nova Scotia, and New Brunswick all have surplus budgets. The other provinces plan to have balanced budgets by 2001. Alberta has made significant progress in eliminating its net debt and many provinces either have a debt-reduction plan in place or are working on such a plan. The first step towards ensuring fiscal responsibility is to balance yearly budgets. The next step is to enact legislation enforcing a planned reduction and elimination of the debt. The third step is to limit, by law, the ability of government to run deficits and accumulate debt, including future obligations.

Step 1: acknowledge the problem

Governments and taxpayers must recognize the liability problem that exists in Canada. Acknowledging total liabilities means recognizing both accumulated direct debt and our enormous program obligations.

Step 2: restructure government

A restructured, limited, government should focus its resources on necessary public services such as law enforcement and national defense. Further, federal and provincial governments must work together to clarify the responsibilities of each jurisdiction and to eliminate overlap in the provision of goods and services.

Gordon Gibson's *Thirty Million Musketeers* offers a fresh and innovative approach to restructuring government in Canada, an approach that would not only result in fiscal responsibility but could also resolve the issue of Quebec's inclination to separation. Gibson specifically recommends broad acceptance of a limited government defined within legal parameters. He then offers a "subsidiarity" theory of government: the level of government closest to the citizens should deliver services, since local governments can respond quickly to pressure from taxpayers. The laws should devolve specific powers upon communities, municipalities, regional agencies, and the provincial government, or assign powers to the federal government based upon which level of government can best deliver services and products. Such a fundamental re-organization of government would clarify and eliminate overlap and duplication between levels of government.

Step 3: apply the fundamentals of balance sheets to government

The basic tenets of financial responsibility and disclosure that governments enforce for business must apply to governments. A broad standard for government accounting must include the notion of full and timely disclosure. Governments must fully report all of their activities in consolidated financial statements. In the 1996/97 public accounts, the Auditors-General of British Columbia and Quebec included reservations because their respective governments did not fully consolidate their financial statements. Quebec's Auditor General went so far as to write that "the readers of these financial statements cannot use them to understand or evaluate financial management of the Gouvernement du Québec as a whole" (Québec, Ministère des Finances, Public Accounts: I, 45). Legislation must prevent governments from financing projects "off balance sheet" in order to avoid—technically—operating in a deficit position. Governments and investors do not tolerate this type of deception from business and voters should not accept such accounting malpractice from government.

In addition, governments must consolidate and rationalize their balance sheets. They should privatize profitable Crown corporations and government business enterprises and apply the proceeds to reducing debt. They must eliminate debt guarantees and subsidies for businesses—including government business enterprises—to reduce state intervention and distortion in capital markets.

Step 4: control spending to balance budgets

Canadians are overtaxed in both absolute and relative terms. The average total tax rate for Canada was 49.3 percent in 1997, ranging from 39.6 percent in Newfoundland to 51.2 percent in Quebec (Emes and Walker 1998). Recent reports by the Canadian Institute of Actuaries (1995) and the OECD (1997b). clearly document the international disadvantage under which Canada suffers as a result of high taxes.

The only effective course of action towards fiscal balance is control of spending. Governments can and should im-

plement further initiatives to reduce spending and encourage free-market competition. For example, federal transfer payments to high-income households could be eliminated. This approach to assistance, targeted through a means-test, would ensure that programs transfer benefits only to Canadians who truly require assistance. The funds freed would provide resources with which the federal government could reduce debt and taxation.

Step 5: revise the budget process

Provincial and federal budgets should provide full disclosure and consolidation of all spending, taxing, and borrowing requirements. Further, budgets should outline contingency plans to meet budget objectives if key economic assumptions or projections are wrong. The federal government has been doing this for a number of years by including a contingency item in expenditures. Recent budgets from the governments of Alberta and Ontario have also included contingency reserves; all provincial governments should do likewise.

Given a revised budget system and the ability of governments to balance their budgets, debt reduction must become the priority. Budgets should provide for a yearly retirement of debt, not simply a payment of the accumulated interest.

Step 6: enact legislation to limit debt in the future

All jurisdictions should enact legislation enforcing balanced budgets and debt reduction. This legislation should include strict penalties for politicians and bureaucrats who do not comply. Finally, voters should demand that governments pass laws that would outline the specific process through which governments may raise taxes. For instance, laws that require a referendum before governments can raise taxes except in a crisis such as war would limit the ability of government to raise taxes and implement new program spending for political reasons. (For a further discussion of the pros and cons of balanced budget and debt reduction laws, see Buchanan and Tullock 1962; Downs 1967; Wittman 1989; Lott 1995; Krol 1997.)

Conclusion

The apparent success of fiscally responsible governments in Alberta, Saskatchewan, Manitoba, and Ontario provides evidence that the Canadian public have accepted that there are negative consequences from government deficits and debt. However, this is only the first step in a larger movement towards fiscal balance. Canadians must persist in demanding that governments balance their budgets, provide full disclosure in a timely manner, and implement reasonable plans for reducing their debt. Further, Canadians must encourage all levels of government to assess the viability of the various programs that currently maintain unfunded liabilities. Generational accounting

done by The Fraser Institute shows that the total obligations resulting from the promises we have made to ourselves are not sustainable and must be restructured to take into account the impact of future demographic change in Canada.

In this study, we provide background information to help the average Canadian understand the size, nature and impact of public debt and obligations. Our most important message is that achieving and maintaining a balanced budget is only the first step towards fiscal responsibility. Debt reduction and the proper funding of obligations are also essential to Canada's economic health.