

# Financial Literacy and Retirement Planning in Canada<sup>1</sup>

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September 14, 2015

## Abstract

In this paper, we draw on internationally comparable survey evidence on financial literacy and retirement planning in Canada to investigate how financially literate Canadians are and how financial literacy is linked to retirement planning. We find that 42 percent of respondents are able to correctly answer three simple questions measuring knowledge of interest compounding, inflation, and risk diversification. This is consistent with evidence from other countries, and Canadians perform relatively well in comparison to Americans but worse than individuals in other countries, such as Germany. Among Canadian respondents, the young and the old, women, minorities, and those with lower educational attainment do worse, a pattern that has been consistently found in other countries as well. Retirement planning is strongly associated with financial literacy; those who responded correctly to all three financial literacy questions are 10 percentage points more likely to have retirement savings.

**Keywords:** Financial literacy, retirement planning, international comparisons

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<sup>1</sup> We thank the *Canadian Securities Administrators* and the *Quebec Autorité des marchés financiers* for granting access to the data, and *Innovative Research* for providing us with the data files and documentation. Michaud thanks the Fonds de recherche du Québec - Société et culture (NC 145848) for funding this research. We also thank Thomas Lalime for excellent research assistance and Audrey Brown for editorial assistance. Findings and conclusions do not necessarily represent the views of the organizations involved.

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## 1. Introduction

Research from many countries around the world shows not only that individuals display low levels of financial literacy but also that financial illiteracy can be linked to lack of financial planning and insufficient resources in retirement (Lusardi and Mitchell, 2011a, 2014). Using data recently collected via a questionnaire especially designed to be comparable to surveys administered in a number of other countries (Australia, France, Germany, Italy, Japan, the Netherlands, New Zealand, Romania, Russia, Sweden, Switzerland, and the United States, which have participated in the Financial Literacy around the World (FLat World) project), this paper aims to assess how Canadians fare in terms of financial literacy and retirement planning.

The Canadian case is important for many reasons. For decades, Canada has had some of the lowest levels of poverty among seniors (see, e.g., OECD, 2011). Although old-age poverty seems to be changing according to recent and forecasted trends (Fréchet, 2012; OECD, 2013; Clavet *et al.*, 2013), public retirement programs provide a high income replacement ratio, typically from 60 percent to 90 percent or more, for workers with earnings below the median.<sup>4</sup> For those individuals, retirement planning may be relatively simple.<sup>5</sup>

On the other hand, retirement planning can be particularly important for Canadians earning above the median income. Income floor programs (the so-called 1<sup>st</sup> pillar) in combination with compulsory public savings plans (the 2<sup>nd</sup> pillar) do not guarantee a

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<sup>4</sup> Median earnings were about CA\$30,000 in 2011, or CA\$48,000 for full-year full-time workers (Statistics Canada, 2014).

<sup>5</sup> There are, however, exceptions to this statement. Such exceptions relate for instance to households breaking up prior to retirement, and to the fact that means-tested programs for the elderly interact in differing ways with various savings vehicles (e.g., the Guaranteed Income Supplement and the Tax-Free Savings Account vs. the Registered Retirement Savings Plan).

sufficiently high replacement ratio. Indeed, these programs provide retirement income capped at approximately CA\$19,000 per year in 2014, meaning that replacement ratios decline to well below 50 percent for those earning above the median. Hence, workers in these earnings brackets need to put aside additional savings (the so-called 3<sup>rd</sup> pillar) to ensure that their retirement income adequately replaces earnings, for example through an employer-sponsored pension plan or tax-sheltered vehicles. In recent years, much of the policy debate has revolved around the question of whether middle- and high-income Canadians are saving enough for retirement. Other important trends are also taking place, including a shift from defined-benefit (DB) to defined-contribution (DC) pension plans, though this has been more limited in Canada than elsewhere (Gougeon, 2009),<sup>6</sup> and a decline in the coverage of private-sector employer-sponsored plans, which may have stabilized (Milligan and Schirle, 2014).

Proposed reforms have followed two strands. The first strand has focused on expanding the 2<sup>nd</sup> pillar (the contributory Canada Pension Plan and its sister Quebec Pension Plan; see for instance Wolfson, 2011 and 2013, and Milligan and Schirle, 2014, for an overview), and sometimes the 1<sup>st</sup> and 3<sup>rd</sup> pillars (see, respectively, Townson, 2009, and Ambachtsheer, 2008, for examples). One argument often made is that Canadians have low levels of financial literacy and thus expansion of relatively simple mandatory programs may be advantageous. Conversely, it is of course possible that enhancing Canadians' financial literacy may lead to improvement in their financial situation and savings.

The second strand focuses on voluntary savings plans. One change to the 3<sup>rd</sup> pillar is currently being gradually implemented at the federal level and in some provinces: Pooled

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<sup>6</sup> Whether "group RRSPs" are taken into account may alter this statement, but exhaustive coverage figures for these DC-type plans are difficult to obtain.

Retirement Pension Plans (PRPPs), which are being legislated under various names in each province. PRPPs are individual accounts with “group investment options,” offered by private financial institutions. Accounts include additional features such as automatic enrollment and default options, and the inclusion of these options can be linked to the notion that purely voluntary savings programs are unlikely to be effective due, among other factors, to lack of financial knowledge. Yet again, financial literacy could also be beneficial to promote retirement savings in these accounts.

The Task Force on Financial Literacy recommended in its 2010 report “that employers offer automatic saving programs and tools to facilitate increased lifelong saving by Canadians, drawing on international best practices in this area” (Task Force on Financial Literacy, 2010). The report also emphasized the importance of financial literacy—not merely for retirement planning but for other reasons as well—and recommended “the appointment of a Financial Literacy Leader to coordinate efforts in the implementation of a national strategy for financial literacy in Canada” (FCAC, 2014). Legislation was adopted in 2013 to appoint such a person within the Financial Consumer Agency of Canada (FCAC),<sup>7</sup> thus expanding for the third time since 2007 the mandate of this federal agency, which “was created in 2001 to protect and educate consumers of financial services” (ibid.). In June 2015, the FCAC launched *Count me in, Canada*, its National Strategy for Financial Literacy, which aims to help Canadians manage money and debt wisely, plan and save for the future, and prevent fraud and financial abuse. This paper addresses FCAC’s “planning and saving” goal by investigating the extent to which financial literacy is associated with retirement planning, and comparing Canadians’ findings with those from other countries.

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<sup>7</sup> Jane Rooney was appointed to that position on April 15, 2014.

Existing evidence revealed low levels of financial literacy in Canada (Task Force on Financial Literacy, 2010; MacKay, 2011; Mullock and Turcotte, 2012; Lalime and Michaud, 2014). However, this evidence drew mostly from the 2009 Canadian Financial Capability Survey, which did not use questions comparable to those used in other countries. Comparisons can be useful as they highlight similarities and differences across countries. They can also draw attention to important features of the data, for example the groups that consistently display the lowest levels of financial literacy, irrespective of institutional setting, and the effects of financial illiteracy.

In section 2, we discuss the survey and data collection method. In section 3, we present the empirical evidence on the level of financial literacy and retirement planning. We then compare results to those obtained from other countries and discuss the implications of our findings for public policy.

## **2. The Survey**

In Canada, securities regulation and oversight is done at the provincial level. Consequently, there are 13 provincial and territorial securities administrators, collectively known as the Canadian Securities Administrators (CSA). In 2012, the CSA sponsored a third edition of a survey that had been fielded in 2006 and 2009, mainly aimed at investigating and measuring various aspects of investment knowledge and behavior among Canadians.

The survey was conducted over the Internet between May 17 and May 31, 2012, in both French and English, using a national panel run by *Innovative Research*. Respondents were drawn from nationally representative samples and were offered a chance to win CA\$1,000.

Data were weighted to ensure the sample was representative of the Canadian population.<sup>8</sup> A total of 6,911 Canadians were interviewed. Important for our purpose is that 2012 was the first year in which the survey included the three specific questions designed to measure financial literacy that have been used in more than twelve other countries.<sup>9</sup>

### 3. Empirical Evidence

#### 3.1. How financially literate are Canadians?

##### 3.1.1. Measurement of financial literacy

We report below the wording of the three questions—taken from the questionnaire originally designed by Lusardi and Mitchell (2011b)—that were used to measure financial literacy among Canadian respondents.

##### *Understanding of Interest Rates*

“Suppose you had \$100 in a savings account and the interest rate was 2% per year. After 5 years, how much do you think you would have in the account if you left the money to grow? More than \$102; Exactly \$102; Less than \$102; Don’t know.”

##### *Understanding of Inflation*

“Imagine that the interest rate on your savings account was 1% per year and inflation was 2% per year. After 1 year, how much would you be able to buy with the

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<sup>8</sup> We used the 2008 Survey of Household Spending to construct weights based on age, sex, region of residence, and education level. Details on the construction of these weights are provided in Appendix A.

<sup>9</sup> While the questions are the same or very similar across countries, the mode of interview varies across surveys fielded in different countries. For example, some countries use telephone-based surveys (U.S.), whereas some (Germany) used paper and pencil. Also, some differences exist in terms of the year in which the survey was fielded. However, the financial literacy landscape is unlikely to have changed over a horizon of a few years.

money in this account? More than today; Exactly the same; Less than today; Don't know."

*Understanding of Risk and Diversification*

"Is the following statement true or false? [...] *Buying a single company's stock usually provides a safer return than a stock mutual fund.* True; False; Don't know."

The first question measures numeracy/interest compounding, or the capacity to do a simple calculation related to interest rates. The second question measures understanding of inflation, again in the context of a simple financial decision. The third question is a joint test of knowledge about stocks and stock mutual funds and of risk diversification, since knowing the answer to this question requires knowledge of what a stock is and that a mutual fund is composed of many stocks in addition to knowing about the workings of risk diversification.

These questions are relevant for most respondents in Canada, albeit with different degrees of salience for different age groups. For instance, only older individuals (40 or 50 years and older at the time of survey) are likely to have experienced inflation, since the last inflationary episode took place in the early 1980s (during that period, inflation was at 10–12 percent). Since 1991 the Bank of Canada has followed a monetary policy based on a 2 percent inflation target. Older respondents may also have the most experience with the power of interest compounding, as individuals over 40—and even more so, those over 60—will likely remember the high mortgage rates of the same period.

Topics such as compound interest, inflation, and the stock market have been taught in varying ways across Canada over the years, and many middle-aged individuals are likely to have had some exposure to these topics in school. In Quebec, for instance, these topics were taught for several decades as part of a mandatory 12<sup>th</sup> grade economics course; however,

this course was dropped from the curriculum in 2009, meaning that individuals under 20 in 2012 will not have been exposed to it. On the other hand, a new optional course beginning in 2015 is being contemplated; British Columbia introduced a mandatory course in 2004; and Ontario specifically introduced financial literacy elements into its curricula in 2011. Moreover, since Canada—Quebec in particular—performs well in mathematics on PISA (Programme for International Student Assessment; see Knighton *et al.*, 2010), one may expect a relatively high level of financial literacy among the adult population (Jappelli, 2010; Jappelli and Padula, 2013).

From the early 1990s onwards, incentives for individuals to contribute to retirement savings plans have been enhanced with the expansion of tax-deferred vehicles and other initiatives (for example, indexation of the contribution ceiling for the Registered Retirement Savings Plan, or RRSP,<sup>10</sup> and creation of the Tax-Free Savings Account, or TFSA<sup>11</sup>). As a result, the value of households' direct investments in financial markets—as opposed to those held through a collective vehicle, such as a pension plan—has risen significantly as a multiple of earnings over the last 30 years (Horner, 2009). The proportion of households owning direct equity is now among the highest in the world (Grout *et al.*, 2009), so Canadians should be rather familiar with concepts related to risk and portfolio diversification.

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<sup>10</sup> The RRSP is similar to an IRA in the U.S. “Group RRSPs” are individual accounts set up by employers, usually with matching contributions, and are similar to 401(k) plans in the U.S. RRSP contributions are tax deductible, and withdrawals are fully taxable at the beneficiary's marginal income tax rate. As mentioned above, group RRSPs also have a new—and very similar—“competitor” savings vehicle: Pooled Registered Pension Plans, which Quebec launched in 2014 under the name Voluntary Retirement Savings Plans (VRSPs).

<sup>11</sup> The TFSA is similar to a Roth IRA in the U.S. “Group TFSAs” are individual accounts set up by employers, usually with matching contributions, and are similar to Roth 401(k) plans in the U.S. TFSA contributions are not tax deductible and withdrawals are not taxable; like Roth plans in the U.S., the TFSA is therefore said to be “tax prepaid”.

### 3.1.2. Evidence on financial literacy

In Table 1, we present the distribution of answers to each of the three financial literacy questions as well as the distribution of answers to all three questions. Over three-quarters of survey respondents correctly answered the compound interest question and more than one in ten got this question wrong. About two-thirds correctly answered the question about inflation and more than 17 percent of respondents got this question wrong. The question that elicited the lowest number of correct answers was the question about risk diversification: 59 percent of respondents answered this question correctly. Moreover, the pattern of responses changes when looking at risk diversification; more than 30 percent of respondents indicated they did not know the answer to this question, while the proportion of “do not know” answers was much lower for the questions on interest rates and inflation (9 and 16 percent, respectively). Results are very similar whether looking at individuals of working age (age 25 to 64) or at the population as a whole. Considering all questions together, only about 42 percent of respondents correctly answered all three questions and more than 37 percent of respondents answered with at least one “do not know” response.

These findings are strikingly similar to those from other countries. For example, studies from the U.S., Germany, and Japan—to mention but a few countries that are geographically diverse but have similar financial markets—report similar findings, with a higher rate of correct responses to the interest rate and inflation questions, but a lower one for the risk diversification question. Moreover, the question about risk diversification is the one that elicits the highest number of “do not know” responses across countries. For example, “do not know” responses are 34 and 32 percent in the U.S. and Germany, respectively, and as high as 56 percent in Japan. In many countries, the number of respondents who can correctly answer all questions is rather low; for example 30 percent in the U.S. and 45

percent in the Netherlands.<sup>12</sup> Percentages are somewhat higher in Germany, with 53 percent of respondents able to answer all three questions correctly.

**Table 1. Summary statistics on the three financial literacy questions**

	Full sample (%)	Age 25-64 (%)
<b>(A) Interest question</b>		
> \$ 102	77.92	79.04
= \$ 102	7.04	7.12
< \$ 102	6.20	6.10
DK	8.84	7.74
<b>(B) Inflation question</b>		
More	8.14	8.10
Exactly the same	9.55	9.91
<i>Less</i>	66.18	66.92
DK	16.13	15.07
<b>(C) Risk question</b>		
<i>Correct (false)</i>	59.35	61.26
Incorrect (true)	9.36	8.13
DK	31.29	30.62
<b>(D) Cross-question consistency</b>		
Correct: Interest and Inflation	58.12	58.83
All correct	42.46	43.93
None correct	10.27	9.46
At least 1 DK	37.23	35.60
All DK	5.96	5.60
<b>Number of observations</b>	6,805	4,950

Note: Distribution of responses to the financial literacy questions in full sample and for those age 25–64. All figures are weighted. DK indicates respondent does not know the answer. Italics indicate the correct answer to each question.

<sup>12</sup> For more detail and discussion about the international comparison across twelve countries, see Lusardi and Mitchell (2014).

### 3.2. Who knows the least?

Table 2 shows the distribution of responses to the financial literacy questions across demographic groups. To be able to compare with other countries, we considered the distribution of responses across age, sex, educational attainment, and employment status. Although in a single cross-section we cannot distinguish between age and cohort effects, there is an inverse U-shaped pattern of responses across age, with the young normally having the lowest percentage of correct answers, and the rate of correct answers again showing a (small) decline with age. In all cases, however, individuals younger than 35 performed worse than older individuals.<sup>13</sup>

Women performed worse than men on all three questions. Not only is the proportion of correct answers lower for women, but for each question, women were more likely than men to have selected the “don’t know” option, with the proportion particularly high for the risk diversification question, to which more than 40 percent of women replied “do not know.”

There is also a strong education gradient, with individuals with greater educational attainment displaying a higher level of financial literacy. The proportion of respondents answering with “do not know” decreases as education level increases.

Retired respondents had the highest proportion of correct answers to the inflation question. But on the other questions, the self-employed performed best. These two groups performed somewhat better than employed respondents on inflation and overall, but on interest and risk, employed individuals were more knowledgeable than retirees. Individuals who were not working (students, homemakers, and the unemployed) performed worst on all questions.

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<sup>13</sup> We only have information about age in brackets, so we have tried to match the information available in other surveys as closely as possible.

These findings are again very consistent with the evidence from other countries; the young, women, those with low educational attainment, and individuals who are not working are consistently found to display low levels of financial literacy internationally. In particular, there are striking similarities in the gender differences in financial literacy; the pattern that is found in Canada very closely mirrors the evidence from other countries. These patterns are one reason why international comparisons can be quite informative.

**Table 2. Distribution of responses to financial literacy questions by age, sex, education level, and employment status**

	Interest		Inflation		Risk		Overall	
	Correct	DK	Correct	DK	Correct	DK	3 Correct	>= 1 DK
<i>Age</i>								
< 35	74.12	10.01	46.58	23.78	50.61	34.31	29.73	43.58
35-54	79.80	7.59	66.84	14.86	61.84	29.58	45.06	34.27
55-64	78.51	7.75	75.11	12.73	62.67	31.90	46.31	36.31
65+	76.82	11.89	75.77	14.79	58.99	31.44	45.66	38.56
<i>Sex</i>								
Male	81.69	6.97	72.15	11.02	66.76	22.71	51.36	27.71
Female	73.85	10.86	59.72	21.65	51.34	40.56	32.85	47.52
<i>Education</i>								
< High school	63.21	16.21	54.28	26.48	40.24	49.32	23.50	57.45
High school graduate	71.29	12.36	53.50	22.25	50.84	36.71	30.33	45.20
Technical & vocational	79.34	7.69	65.62	15.81	58.80	31.70	40.50	37.07
CEGEP or Some college	82.40	6.26	69.70	12.91	64.57	26.35	48.00	31.50
College Graduate	86.79	4.36	78.66	8.37	73.68	19.83	58.70	23.89
Post Graduate	90.62	3.61	82.51	6.37	75.78	16.48	63.85	19.85
<i>Employment status</i>								
Not working	68.56	13.64	48.86	27.04	42.98	44.63	25.88	50.63
Employed for wage	80.93	6.74	65.82	13.76	63.26	27.64	44.90	33.39
Self-employed	83.39	4.24	75.07	11.52	67.35	24.29	52.29	29.75
Retired	77.19	10.75	76.39	14.36	61.05	30.90	46.62	37.31

Note: All figures are weighted. DK indicates respondent does not know the answer. “Not working” includes students, homemakers, and the unemployed.

Given the regional differences that have been found in Italy, Russia, and the United States, we looked at financial literacy differences by Canadian province/region.<sup>14</sup> We also looked at differences by self-reported visible minority status, and according to the language in which the respondent took the survey. Results are shown in Table 3.

There are slight differences in financial literacy across regions: respondents in Quebec and the Atlantic provinces performed poorly on the interest and inflation questions, while respondents on the coasts (British Columbia and Atlantic) did worse on risk diversification. Overall, respondents from Ontario and the Prairies performed best, while those from the Atlantic provinces did the worst. Differences were not very large, however; there was no single question on which the difference between the “most literate” and the “least literate” region exceeded 10 percentage points.

The picture is somewhat different when looking at the results according to language (i.e., whether the survey was taken in French or English).<sup>15</sup> French respondents in Quebec do worse than English respondents in Quebec. French respondents in the rest of Canada do better than French respondents in Quebec and even than English respondents in Quebec and the rest of Canada, apart from the question on risk diversification. The picture is also different when comparing language minorities (English in Quebec vs. French in other provinces) and majorities (French in Quebec vs. English elsewhere). Among the minorities,

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<sup>14</sup> We report statistics by region instead of individual province mostly for convenience. Differences between provinces within each region (Newfoundland and Labrador, Prince Edward Island, Nova Scotia and New Brunswick in the Atlantic; Manitoba, Saskatchewan and Alberta in the Prairies) were not significant.

<sup>15</sup> The sub-sample of French respondents outside Quebec is very small.

English respondents do better on risk and overall, while their results are similar to French respondents on interest and inflation. English respondents from outside Quebec do better than French respondents from Quebec, except on risk. In all cases except on risk, English respondents from Quebec fare best, while French respondents from Quebec fare worst. These are only univariate statistics, not controlling for the other differences that are mentioned earlier in the table. Given the importance of these findings, we also perform a multivariate analysis. Interestingly, regional and language differences apparent in Table 3 all but disappear when controlling for educational attainment in a regression framework.<sup>16</sup> Hence, the gap is almost entirely explained by differences in education across regions.

**Table 3. Distribution of responses to financial literacy questions by region, language, and self-reported visible minority status**

	Interest		Inflation		Risk		Overall	
	Correct	DK	Correct	DK	Correct	DK	3 Correct	>= 1 DK
<i>Region (N=6,805)</i>								
Atlantic	74.55	10.79	64.29	20.48	53.75	38.56	36.93	45.37
Quebec	74.68	9.19	62.76	16.87	60.17	30.48	39.43	37.91
Ontario	79.65	8.50	67.81	14.73	61.11	29.41	44.69	34.74
Prairies	78.83	8.83	67.66	16.06	58.86	31.43	45.06	36.73
British Columbia and Territories	79.97	8.05	67.30	16.36	56.55	33.93	41.79	39.07
<i>Language (N=6,805)</i>								
French (Quebec)	73.86	9.53	61.45	17.60	59.72	30.82	38.08	38.61
French (ROC)	79.23	0.00	78.69	3.57	70.57	12.95	53.43	15.65
English (Quebec)	85.06	4.73	79.53	7.47	65.89	26.23	56.76	29.01

<sup>16</sup> This conclusion was reached by regressing the variable indicating that an individual had correctly answered all three financial literacy questions on age, sex, region of residence, and an interaction dummy indicating French speaking respondents from Quebec, and subsequently adding education level (these are OLS regressions). The latter operation wiped out regional and language differences. The subsequent addition of income and employment status into the regression lowered the educational effect, but did not change the statistical significance of region, language and education's coefficients. Results are available upon request.

English (ROC)	79.03	8.76	67.28	15.94	59.01	31.66	43.45	37.11
<i>Visible minority</i>								
(N=6,198)								
Yes	69.24	9.78	56.93	16.55	53.04	29.76	31.79	35.43
No	82.09	7.15	70.56	13.58	64.32	27.86	47.99	33.40

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Note: All figures are weighted. DK indicates respondent does not know the answer. ROC refers to Canada outside Quebec (“rest of Canada”).

Finally, self-declared “visible minority status” seems to be strongly correlated with lower financial literacy. Respondents who identify themselves as belonging to a visible minority fare much worse, on average, than those who do not. The success rate is much lower on all questions (by 11–15 percentage points) as well as overall (16 percentage points). Contrary to the regional/language differences, this result does not go away when controlling for income, employment status and, most importantly, educational attainment.

Given that regional differences seem entirely attributable to differences in educational attainment, we investigate the extent to which regional and educational differences could be at play behind the observed male-female gap in Canada. We do this by first reporting, in Table 4, separately for males and females, the findings on the financial literacy questions according to language and educational attainment. Other than a possibly smaller gap at the higher education levels and in British Columbia, the table shows no clear patterns in the male-female differences. We therefore carry out the same exercise as above (for regional differences). We find that gender differences in financial literacy do *not* hinge on differences in educational attainment, or on regional differences.<sup>17</sup> The gender gap in financial literacy seems to hold regardless of the many variables we include in the regressions.

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<sup>17</sup> The variable indicating that an individual had correctly answered all three financial literacy questions was regressed on age, sex, income, and employment status. The subsequent sequential introduction of region of

**Table 4. Male-female differentials in financial literacy by education level and region, in percentage points**

	Interest		Inflation		Risk		Overall	
	Correct	DK	Correct	DK	Correct	DK	3 Correct	>= 1 DK
<i>Education</i>								
< High school	3.04	-1.72	4.34	-12.77	16.80	-25.50	9.27	-22.09
High school graduate	11.82	-5.77	16.12	-13.11	16.69	-20.37	19.16	-20.66
Technical & vocational	3.60	-2.72	6.33	-6.38	10.16	-12.12	12.07	-15.34
CEGEP or Some college	10.30	-3.52	16.29	-10.62	17.03	-17.59	25.50	-21.11
College Graduate	5.11	-3.63	14.35	-8.61	13.51	-26.97	19.22	-17.39
Post Graduate	7.91	-3.93	4.43	-5.03	5.96	-6.82	11.92	-10.40
<i>Region</i>								
Atlantic	8.45	-3.52	12.34	-12.25	20.11	-23.16	17.86	-24.47
Quebec	13.93	-5.65	8.87	-12.09	12.83	-19.52	14.64	-21.76
Ontario	7.05	-4.50	14.01	-10.99	16.31	-18.35	21.47	-20.97
Prairies	6.48	-1.59	16.54	-9.01	15.02	-16.32	20.04	-16.99
British Columbia and Territories	0.93	-2.01	10.78	-8.06	15.10	-11.68	16.98	-13.73
<i>Average</i>	<i>7.84</i>	<i>-3.89</i>	<i>12.43</i>	<i>-10.63</i>	<i>15.42</i>	<i>-17.85</i>	<i>18.51</i>	<i>-19.81</i>

Note: The differential is between male and female proportions (male % – female %), so a positive (negative) figure indicates that the difference is in favor of males (females). All figures are weighted. DK indicates the respondent does not know the answer. ROC refers to Canada outside Quebec (“rest of Canada”).

### 3.3. Does financial literacy matter?

We turn next to examining the link between financial literacy and retirement planning.

Planners are defined as those who have any type of voluntary savings. This is a broad measure, but the wording of the survey question makes it appropriate as far as retirement

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residence and of education level (always in OLS regressions) did not change the gender coefficient. Regression results are available upon request.

planning is concerned (we label as *planners* respondents who select answers #1, #2 or #3 to the question below):<sup>18</sup>

Do you personally have any savings or investments set aside for the future? This could be either in or outside of an RRSP (Registered Retirement Savings Plan), RRIF (Registered Retirement Income Fund) or TFSA (Tax-Free Savings Account). Check all that apply.

1. Savings or investments IN an RRSP, RRIF or pension plan
2. Savings or investments IN a TFSA
3. Savings or investments OUTSIDE an RRSP, RRIF, pension plan or TFSA
4. Currently do not have any savings or investments set aside for the future

As did the studies in other countries, we restrict our sample to non-retired respondents age 25 to 64.<sup>19</sup> Table 5 shows the relationship between retirement planning and financial literacy. Results indicate that higher levels of financial literacy are associated with a higher likelihood that the respondent plans for retirement. The fraction who correctly answered all questions is much higher at 53.5 percent among planners versus 29.0 percent among non-planners, and the fraction who answered with at least one “don’t know” is much lower among planners at 26.0 percent versus 49.2 percent among non-planners.

In Table 6 we show the results of regressions to assess the impact of financial literacy on retirement planning—this time controlling for a rich set of demographic characteristics and

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<sup>18</sup> One might argue that only individuals with savings in tax-sheltered vehicles should be labelled “planners”, but it can be similarly argued that other forms of savings are also linked to planning—for retirement and other purposes. About 200 individuals, out of more than 4,000 in our regression sample, report having savings *only* outside of tax-sheltered vehicles, i.e., answer #3.

<sup>19</sup> Eight hundred and seventy-three retired respondents are under age 65.

income.<sup>20</sup> As in the studies in other countries, we use three different specifications for financial literacy: (1) whether the respondent answered all three questions correctly; (2) the number of questions the respondent answered correctly; and (3) dummies for each of the questions the respondents answered correctly.

**Table 5. Financial literacy of planners and non-planners**

	Planners	Non-planners
<b>(A) Interest question</b>		
Correct	84.63	71.29
DK	4.96	11.40
<b>(B) Inflation question</b>		
Correct	73.60	53.88
DK	9.01	24.11
<b>(C) Risk question</b>		
Correct	71.08	46.53
DK	21.23	43.76
<b>(D) Summary</b>		
Correct: Interest and Inflation	67.11	44.52
All correct	53.45	29.00
None correct	5.53	15.46
At least 1 DK	26.00	49.17
All DK	2.86	9.20
<b>Number of observations</b>	<b>2,368</b>	<b>1,713</b>

Note: Sample consists of non-retired respondents age 25–64. DK indicates the respondent does not know the answer. Planners are individuals who have any voluntary savings.

Income information is reported using eight broad categories, rather than as a continuous variable. These categories are coded using dummy variables (one dummy for each income

<sup>20</sup> Logit marginal effects were very similar to OLS estimates. Here we use the linear probability model to compare results with other countries

category).<sup>21</sup> The same is true for age, which is represented as a set of dummies for age groups rather than as a continuous variable.

We do not use visible minority status as a control because of the large number of “don’t know/prefer not to say” responses (almost 10 percent). The survey does not provide information regarding marital status and, as a result, we cannot use this variable in our regressions.<sup>22</sup>

Even after controlling for many demographic characteristics, including income, Table 6 shows there continues to be a strong link between financial literacy and retirement planning. Specifically, those who answered all three questions correctly are about 10 percentage points more likely to have savings, including in an RRSP, RRIF, pension plan, or TFSA. Similarly, those who can answer one extra financial literacy question have an increased probability (5.3 percentage points) of having savings. The concept that matters the most for retirement planning is risk diversification: those who correctly answered the risk diversification question have a 10.2-percentage-point-higher probability of having savings. This finding is similar to what is found in other papers (Lusardi and Mitchell, 2014).

Both higher income and higher educational attainment are associated with higher levels of planning. These variables have positive and generally large and significant effects on retirement planning, which is again consistent with the findings of many other countries (see, e.g., Lusardi and Mitchell, 2011c, 2014). Age also has a significant effect, with older individuals being more likely to hold retirement savings. When controlling for other

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<sup>21</sup> About 15 percent of respondents did not report their income. To be able to rely on the full sample, we imputed the missing observations on income as described in Appendix B.

<sup>22</sup> Appendix C provides descriptive statistics for the full sample and the sample used in the regressions.

personal characteristics, including income, education and financial literacy, we find that women are more likely to plan for retirement. This finding is consistent with evidence from other countries, such as Japan (Lusardi and Mitchell, 2011a).

**Table 6. Linear probability models for retirement planning**

	1	2	3
<b>Financial literacy measures</b>			
All three correct	0.0977*** (0.0164)		
Total number correct		0.0530*** (0.0090)	
Inflation correct			0.0332* (0.0201)
Interest correct			0.0148 (0.0237)
Risk correct			0.1021*** (0.0186)
<b>Socio-demographic controls</b>			
<b>Age (ref. 25-34)</b>			
35-54	0.0202 (0.0189)	0.0183 (0.0188)	0.0196 (0.0188)
55-64	0.1058*** (0.0252)	0.0990*** (0.0251)	0.0994*** (0.0251)
<b>Sex (ref. Female)</b>			
Male (=1 if male)	-0.0468*** (0.0164)	-0.0461*** (0.0163)	-0.0466*** (0.0162)
<b>Region (ref. Quebec)</b>			
Atlantic	-0.0937*** (0.0268)	-0.0961*** (0.0267)	-0.0934*** (0.0262)
Ontario	-0.0095 (0.0207)	-0.0089 (0.0206)	-0.0068 (0.0206)
Prairies	-0.0226 (0.0253)	-0.0202 (0.0251)	-0.0182 (0.0251)

British Columbia and Territories	-0.0258 (0.0274)	-0.0261 (0.0275)	-0.0214 (0.0277)
<b>Education (ref. &lt;High School)</b>			
High School	0.1221*** (0.0401)	0.1159*** (0.0401)	0.1138*** (0.0400)
Technical, Vocational Post-Secondary School	0.1618*** (0.0401)	0.1530*** (0.0402)	0.1516*** (0.0401)
CEGEP or Some University	0.1878*** (0.0414)	0.1790*** (0.0416)	0.1774*** (0.0416)
College and Post Graduate	0.2314 (0.0403)	0.2207*** (0.0407)	0.2187*** (0.0407)
<b>Income (ref. under \$20,000)</b>			
\$20,000 to under 40,000	0.1472*** (0.0366)	0.1392*** (0.0363)	0.1404*** (0.0362)
\$40,000 to under \$60,000	0.2266*** (0.0371)	0.2162*** (0.0371)	0.2178*** (0.0368)
\$60,000 to under \$80,000	0.3423*** (0.0366)	0.3352*** (0.0366)	0.3358*** (0.0366)
\$80,000 to under \$100,000	0.3643*** (0.0368)	0.3555*** (0.0368)	0.3565*** (0.0368)
\$100,000 to under \$125,000	0.4087*** (0.0371)	0.4014*** (0.0370)	0.4017*** (0.0370)
\$125,000 to under \$150,000	0.3828*** (0.0452)	0.3707*** (0.0451)	0.3723*** (0.0453)
\$150,000 or more	0.3929*** (0.0386)	0.3857*** (0.0386)	0.3881*** (0.0384)
<b>Employment status (ref. Empl. for wage)</b>			
Self-employed	-0.0770*** (0.0291)	-0.0774*** (0.0289)	-0.0774*** (0.0291)
Not working	-0.1841*** (0.0252)	-0.1799*** (0.0251)	-0.1780*** (0.0250)
Constant	0.2934*** (0.0491)	0.2431*** (0.0478)	0.2539*** (0.0485)
R <sup>2</sup>	0.2434	0.2449	0.2480

Note: Robust standard errors in parentheses; \*\*\*P<0.01; \*\*P<0.05; \*P<0.10. Sample consists of 4,082 non-retired respondents age 25–64. “Not working” includes students, homemakers and the unemployed.

Because of possibly differing incentives to plan for retirement according to the level of income in Canada, we have split the sample according to income, at CA\$60,000. As an alternative strategy, we have included an interaction term between financial literacy (each of the three measures in turn) and a dummy indicating that an individual has a high income, i.e., over CA\$60,000. We reach the same qualitative conclusion using both methods: all else equal, financial literacy appears to have a greater impact on retirement planning for individuals with *lower* income. This makes sense to the extent that higher-income individuals are more likely to be aware of the basic features of the retirement income system, and thus of their need to save, regardless of their measured level of financial literacy. But this finding may warrant further research.

Financial literacy can itself be an endogenous variable. One framework used to conceptualize financial literacy is described in Lusardi, Michaud, and Mitchell (2013). Financial literacy is a form of human capital, which may enhance returns on savings but which is costly to acquire. In such a model, financial literacy affects savings by raising the returns on available assets, but both are a choice variable. Finally, there is the possibility that individuals acquire financial literacy by planning for retirement, a learning-by-doing mechanism. One common strategy used to address these issues is to rely on instrumental variables estimation. Unfortunately, we do not have information that would enable us to construct instruments for financial literacy, such as whether respondents have been exposed to financial education, either in school or at work (Lusardi and Mitchell, 2014). Nevertheless, in most of the countries covered in the international comparison, instrumental variables estimation has yielded consistently higher estimates of the

relationship between financial literacy and planning than those measured by the OLS estimates (Lusardi and Mitchell, 2014, Table 4).

#### **4. Discussion and Conclusions**

In this paper, we examine financial literacy via responses to questions that have been used in surveys in many other countries. We report several important findings. First, only 42 percent of respondents in Canada correctly answer basic questions relevant to personal financial decisions. This is low but not very different from findings in other countries where the same questions were asked. For example, only 30 percent of American respondents correctly answered the same questions while 53 percent of German respondents did so.

Second, Canada is no different from other countries when it comes to the groups who know the least: financial literacy is lower among the young and the old, women, minorities, and those with lower educational attainment. It is also lower in Quebec and Atlantic provinces and, in particular, low among those speaking French in Quebec. However, these differences seem mostly due to differences in educational attainment among regions and language groups. Financial literacy increases with education, but even among those with high levels of education, for example college-educated respondents, only 60 percent could answer all three questions correctly. This is particularly relevant for the debate over how to reform the retirement income system in Canada. It is also important to identify potentially vulnerable groups.

Retirement planning is strongly associated with financial literacy. This result has been found in many countries and the estimates in Canada are similar to those of other countries. This is relevant in the Canadian context because of the relatively low level of financial literacy, even among the more fortunate Canadians (i.e., those with higher education and

income), who may need to rely more and more in the future on voluntary savings programs to fund their accustomed level of consumption in retirement. Furthermore, enhanced financial literacy among lower-earning individuals may subsequently improve their general financial situation and retirement and, hence, benefit them more strongly as they move to higher earning categories.

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## Appendix A: Weighting procedure

To ensure that our sample is representative of the Canadian population, we reweighted it using the weights of the Survey of Household Spending (SHS) as calculated by Statistics Canada, and the weights of the CSA Investor Index (CSAII) survey. Initially, the latter were based on three census variables: age group (3 categories), sex (2), and province of residence (10). Because education is important for our analysis, we added it to this list. To implement this, for the two surveys we found the distribution by age, sex, region of residence, and educational attainment. We considered three categories for age: 18–34, 35–54, and 55+; five regions of residence: Quebec, Ontario, Prairies, British Columbia and Territories, and Atlantic; and two levels of educational attainment: less than high school and high school and more. Letting  $N_{c,csa}$  be the number of observations obtained from the CSAII survey and  $N_{c,shs}$  those obtained from the SHS for each of the 60 groups, we came up with the new weight:  $W_c = N_{c,shs}/N_{c,csa}$ ,  $c=1,\dots,60$ . Using this new weight, we obtained column 4 of Table A.

**Table A: Distributions differences**

	CSAII sample (%, weighted) (1)	SHS sample (%, weighted) (2)	Difference (% points) (3)=(1)-(2)	CSAIIrw sample (%, reweighted) (4)	Difference (% points) (5)=(4)-(2)
<b>(A) Age</b>					
18-24	10.28 (0.30)	3.75 (0.19)	6.53	7.25 (0.26)	3.50
25-34	17.24 (0.38)	15.87 (0.37)	1.37	12.03 (0.33)	-3.84
35-44	15.31 (0.36)	20.19 (0.40)	-4.88	16.99 (0.38)	-3.20
45-54	21.84 (0.41)	22.28 (0.42)	-0.44	25.85 (0.44)	3.57
55-64	20.35 (0.40)	17.49 (0.38)	2.86	20.51 (0.40)	3.02

65+	14.99 (0.36)	20.42 (0.40)	-5.43	17.37 (0.38)	-3.05
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N	6,805	9,739		6,805	
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**(B) Education**

< High School	5.34 (0.22)	18.67 (0.39)	-13.33	18.59 (0.39)	-0.08
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>= High School	94.66 (0.22)	81.32 (0.82)	13.34	81.41 (0.39)	0.09
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N	6,805	9,739		6,805	
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**(C) Gender**

Male	48.23 (0.50)	51.75 (0.50)	-3.52	51.94 (0.5)	0.19
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Female	51.77 (0.50)	48.25 (0.50)	3.52	48.06 (0.5)	-0.19
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N	6,805	9,739		6,805	
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**(D) Province**

Alberta	10.56 (0.31)	10.24 (0.10)	0.32	9.46 (0.29)	-0.78
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British Columbia	13.50 (0.34)	13.48 (0.34)	0.02	13.19 (0.34)	-0.29
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Manitoba	3.52 (0.18)	3.51 (0.18)	0.01	3.81 (0.19)	0.30
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New Brunswick	2.31 (0.15)	2.34 (0.15)	-0.03	3.06 (0.17)	0.72
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Newfoundland and Labrador	1.59 (0.13)	1.55 (0.12)	0.04	1.41 (0.12)	-0.14
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Nova Scotia	2.87 (0.17)	2.95 (0.17)	-0.08	1.71 (0.13)	-1.24
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Ontario	38.42 (0.49)	37.08 (0.48)	1.34	37.43 (0.48)	0.35
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Prince Edward Island	0.42 (0.06)	0.42 (0.06)	0.00	1.10 (0.10)	0.68
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Quebec	23.77 (0.43)	25.46 (0.44)	-1.69	25.45 (0.44)	-0.01
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Saskatchewan	3.03 (0.17)	2.97 (0.17)	0.06	3.38 (0.18)	0.41
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N	6,790	9,739		6,790	
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Note: Standard errors in parentheses. CSAII sample is the sample as originally weighted by *Innovative Research*; CSAIIrw sample is the reweighted sample. Territories are excluded, which explains why the number of observations is smaller in the distribution by province.

## Appendix B: Income imputation

About 15 percent of respondents to the CSA Investor Index (CSAII) survey did not report their income (i.e., they said that they did not know or preferred not to answer). Because income is an important variable in our analyses, we imputed the missing observations to be able to rely on the full sample. We did so by using an ordered logit estimation for those individuals who did provide their income, where the dependent variable was income as reported in the categories originally used in the CSAII survey. The regressors included age, gender, survey language, visible minority status, province of residence, educational attainment, and employment status—all with their original categories, as provided by the survey firm. Using the coefficients obtained from this regression, we then imputed an income to respondents who had answered “don’t know” or “prefer not to say”. Thus these individuals were attributed an income category based on their age, gender, survey language, visible minority status, province of residence, educational attainment, and employment status.

## Appendix C: Descriptive statistics

Table C presents descriptive statistics for the survey variables used in this paper. Statistics are provided for both the full sample and our regression sub-sample of non-retired individuals age 25–64.

**Table C: Descriptive statistics**

	Full sample (%)	Age 25-64, non-retired (%)
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<i>Retirement planning</i>	<i>(N=6,805)</i>	<i>(N=4,082)</i>
Planner	69.51	69.88
Non-planner	30.49	30.12
<i>Age</i>	<i>(N=6,805)</i>	<i>(N=4,082)</i>
< 35	19.28	18.51
35-54	42.84	63.02
55-64	20.51	18.47
65+	17.37	--
<i>Sex</i>	<i>(N=6,805)</i>	<i>(N=4,082)</i>
Male	51.94	51.42
Female	48.06	48.58
<i>Region</i>	<i>(N=6,805)</i>	<i>(N=4,082)</i>
Atlantic	7.27	6.91
Quebec	25.38	25.12
Ontario	37.34	37.11
Prairies	16.60	17.40
British Columbia and Territories	13.40	13.46
<i>Survey language</i>	<i>(N=6,805)</i>	<i>(N=4,082)</i>
French	23.92	23.75
English	76.08	76.25
<i>Education</i>	<i>(N=6,805)</i>	<i>(N=4,082)</i>
< High school	18.59	13.55
High school graduate	17.38	17.47
Technical & vocational	20.62	23.31
CEGEP or Some college	13.96	13.45
College Graduate	20.01	22.42
Post Graduate	9.44	9.80
<i>Employment status</i>	<i>(N=6,805)</i>	<i>(N=4,082)</i>
Not working	17.90	21.20
Employed for wage/Salary	49.09	69.06
Self-employed	7.13	9.74
Retired	25.87	--
<i>Visible minority</i>	<i>(N=6,198)</i>	<i>(N=3,721)</i>
Yes	12.96	13.93
No	87.04	86.07

Note: All figures are weighted. Distributions of characteristics in full sample and for non-retired individuals age 25–64 (this is the regression sample used in the paper). “Don’t know” responses are not reported, which explains the varying sample size. “Not working” includes students, homemakers and the unemployed.

Individuals are “planners” if they report having any savings or investments “set aside for the future” (savings or investments in an RRSP, RRIF or pension plan; in a TFSA; or outside an RRSP, RRIF, pension plan or TFSA).