





Statistics Canada www.statcan.gc.ca

LISA, Anticipating the Next Generation of Longitudinal Data

CRDCN 2012 National Conference Fredericton

Andrew Heisz

Chief, Income Statistics Division, Statistics Canada

October 24, 2012





Introduction

- The Longitudinal and International Study of Adults (LISA) is a new Canadian longitudinal social survey, sponsored by Human Resources and Skills Development Canada (HRSDC) and administered by Statistics Canada.
- The first data collection (wave-1) is complete (November 2011 to June 2012), and data for members of 18,000 households (about 37,000 respondents) was collected (in provinces only).
- Wave-1 data is expected to be disseminated to the Canadian Research Data Centre Network (CRDCN) in November 2013.





Project History

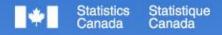
- LISA was developed to provide longitudinal information on labour market, education/training/skills and family experiences.
- The survey is designed based upon the life course analytic framework, which provides a longitudinal perspective on human lives.
- This information permits researchers to analyse how events at one point in life lead to outcomes at other points and contributes to understanding the most effective interventions and the optimal timing to help Canadians in their lifetime.





Survey Design

- An important feature of LISA wave-1 is that it entered the field in a coordinated collection effort with the 2011-12 cycle of the Programme for International Assessment of Adult Competencies (PIAAC) (OECD, 2011).
- A second important feature of the first wave of LISA is that it includes a data replacement strategy using administrative data.





Survey Design

Sample type 1:

In these dwellings, each member is selected into the LISA sample.

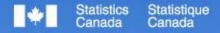
One respondent between the ages of 16 and 65 is also chosen to complete the PIAAC questionnaire.

A short background questionnaire is administered to all other dwelling members aged 15 and over. Targetted to receive the PIAAC assessment, 15,000 addresses Not targetted to receive the PIAAC assessment, 10,700 addresses

Sample type 3:

In these dwellings, each member is selected into the LISA sample.

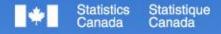
All dwelling members aged 15 and over are administered a short background questionnaire.





Other design features of LISA

- Target population: the wave-1 target population was all Canadians living in households in provinces, excluding institutional and on-reserve populations.
- Target respondent: the survey was to interview all household members aged 15 and over living in sampled households (although members aged 0-14 are sample members and will be interviewed in later waves, after they turn 15).
- Mode: the collection method was non-proxy computer assisted personal interviews (CAPI), although the option was given to interviewers to conduct the interview over the telephone using the CAPI application if a face to face meeting could not be scheduled.
- *Frame*: The frame consisted of addresses drawn from the 2011 census.
- Following rules: Regardless of their age, all residents of responding wave-1 households are deemed to be "permanent sample members" and are followed indefinitely. Cohabitants of permanent sample members are also interviewed, and children of permanent sample members themselves become permanent sample members.



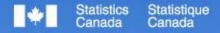


Collection Results

- The overall household response rate to LISA was 74%, with 62% of households providing responses for all targeted respondents.
- The total enumerated sample was 50,200 individuals, including 8,600 nonresponding children.
- Of the remaining sample eligible to be interviewed, 37,300 completed an interview (90% of those eligible), with 8,500 among these having completed the PIAAC interview.

Wave 1 content

PIAAC households (Sample type 1)		Non PIAAC households (Sample type 3)	
Detailed Background Questionnaire	Basic Background Questionnaire	Basic Background Questionnaire	
Family relationshipsDemographics	Family relationshipsDemographics	Family relationshipsDemographics	
- 1			
Labour market and job characteristicsRetirement status	Labour market and job characteristicsRetirement status	Labour market and job characteristicsRetirement status	
Basic health status	Basic health status	Basic health status	
 Parent's education status Skills, Literacy, numeracy and ICT at work and everyday life Some other characteristics and opinions PIAAC assessment	Parent's education status	 Parent's education status Additional content Annual labour supplied Child health, education and care Dwelling characteristics 	
		Satisfaction with life	
	From admin. data		
•	Personal and family income and income his	tory	
	Family composition history		
	 Locations of residences history 		
	Earnings and employers history		
8	• Pension plan information history		





The PIAAC assessment

- PIAAC is an OECD initiative to assess skills and competencies of working-age adults across 26 countries, including most EU countries, Canada, the US and Australia (Bussièrre, 2012). PIAAC is intended to build upon previous initiatives: the international Adult Literacy Survey (IALS 1994, 1996, 1998) and the Adult Literacy and Life skills Survey (ALLS, 2003).
- At the centre of PIAAC is a series of computer or paper-based assessments designed to evaluate respondent's competencies in
 - reading,
 - mathematics,
 - literacy,
 - numeracy
 - "problem solving in a technology rich environment"
- Results from these PIAAC assessments will be available for LISA respondents who responded to the PIAAC assessment. This subsample of respondents is representative of the Canadian population (in provinces).





Data provided through record linkages: T1 Family File

- Data from the T1FF from 1982 to the collection year will be linked to the LISA file.
- Additional years of T1FF data will be matched to the LISA following each subsequent wave.
- The T1FF is an annual database of T1, T4 and Canada Child Tax Benefit (CCTB) data grouped together at the individual and census family level.
- This will allow for the computation of:
 - contemporary data on personal and family earnings, transfers, income and after tax income
 - historical personal and family income
 - location of residence (annually)
 - family composition.





Data provided through record linkages: T4 and Pension Plans

- T4 files from 1990 to the collection year will be linked to the LISA file.
- Additional years of T4 data will be matched to the LISA following each subsequent wave.
- The T4 is the administrative slip issued to all paid employees by their employer for the purposes of declaring income taxes. This will provide historical and contemporary data of earnings and employers
- Pension Plan in Canada file from 1998 to the collection year will be linked to the LISA file.
- Additional years of PPIC data will be matched to the LISA following each subsequent wave.
- This will provide historical and contemporary data of pension plan information including whether the plan is defined benefit or defined contribution.





Data provided through record linkages

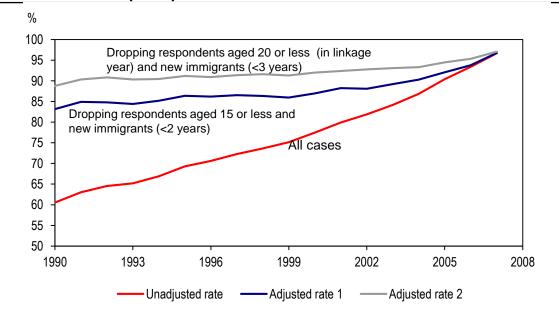
• Other linkages in future waves are possible





Expectations regarding the linked data

When reasonable restrictions are made, retrospective linkage rates are as high as 90% going back 15 years Linkage rate of the personal income tax return file (T1) from 1990 to 2007 to the CHPS-Pilot (2008)



Source: Heisz, Langevin and Randle (2013) using data from the CHPS (2008) and the T1 file (1990 to 2007)

2018-04-03





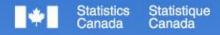
LISA wave-2

- LISA data will be collected biennially, with the second wave of collection starting in January 2014.
- The questionnaire for LISA wave-2 is currently under development
- To date, draft modules have been completed or are in progress for the following domains:

• Labour	Education	
 Learning, training and skills 	Retirement	
 Family changes 	 Some asset and debt characteristics 	
Care giving	 Dwelling characteristics and value 	
• Disability	Economic hardship	
• Health	 Child health, education and child care 	
Work life balance	 Satisfaction with various domains of 	
 Some biography 	life	

Topic areas under development for LISA wave-2

 The development of wave-2 content is ongoing. The list should be viewed as preliminary, and topics may be added or removed.





Questions or comments

Andrew Heisz Chief, Income Statistics Division Statistics Canada

andrew.heisz@statcan.gc.ca

613-951-3748

2018-04-03