



LABOUR AND INCOME

Dynamics

June 1998

Survey Overview (75F0011XIE)

The Survey of Labour and Income Dynamics adds a new dimension to existing survey data on labour market activity and income: the changes experienced by individuals through time. At the heart of the survey's objectives is the understanding of the economic well-being of Canadians: what economic shifts do individuals and families live through, and how does it vary with changes in their paid work, family make-up, receipt of government transfers, or other factors? The survey's longitudinal dimension makes it possible to see such concurrent and often related events. SLID will be the first household survey ever to provide national data on the fluctuations in income that a typical family or individual experiences through time, which will give greater insight on the nature and extent of poverty in Canada.

Starting in 1993, SLID follows the same respondents for six years. A second "panel" was introduced in 1996, overlapping

the first one for a three year period. Other panels will be introduced every three years. Each panel includes about 15,000 households, including about 30,000 adults.

A preliminary interview takes place at the beginning of each panel to collect background information. Each of the six years has a split-interview format, with labour topics covered in January and income topics in May. In both cases, questions refer to the previous calendar year. The income interview occurs in May to take advantage of income tax time when respondents are more familiar with their records. In addition, many respondents give us the permission to consult their income tax file, and avoid the income interview.

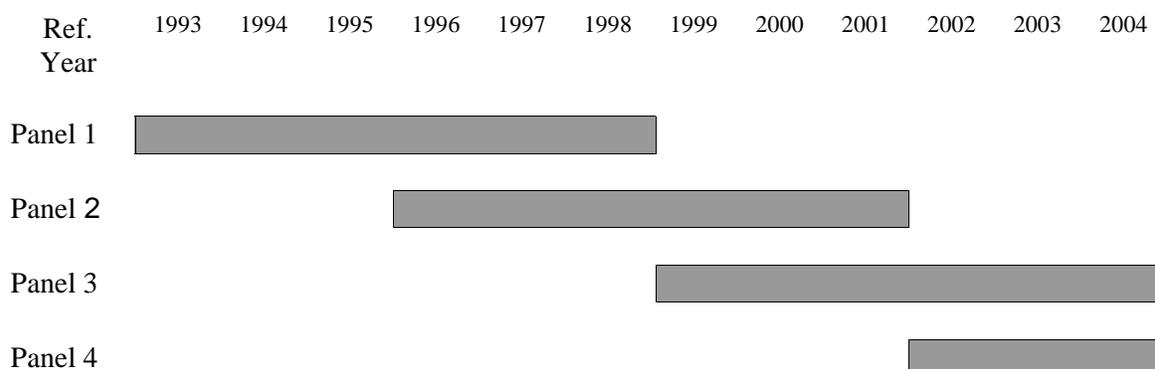
Why a longitudinal survey?

With recurring surveys, it makes a difference whether you interview a new sample of people each time, as most surveys do, or the same people several times in a row, as in a longitudinal survey. The advantage of cross-sectional samples is that they are generally more representative of the population, and they reveal the levels and *trends* of income or labour for the whole population or sub-groups. But what are the fluctuations in people's labour, income or family characteristics at the micro level? What events tend to coincide? How often do people change jobs or get laid off, with what impact on their total family income? How many families split or join together in a given time period? What proportion of households are persistently poor year after year, and what makes it possible for others to emerge from periods of low income?

In SLID, the focus extends from static measures to the whole range of transitions, durations, and repeat occurrences of people's financial and work situations. Since their family situation, education, and demographic background may play a role, the survey has extensive information on these topics as well (see *Content themes*).

To ensure the sample remains representative, the window on each panel of respondents is kept to 6 years. A new panel of longitudinal respondents is selected every three years, so there is always an overlap between two panels of respondents (Figure 1).

Figure 1
Survey design



- ◆ A new panel starts every 3 years
- ◆ Each panel has 13 interviews spread over 6 years

Following respondents when they move

The longitudinal respondents — people belonging to the selected households when the new panel is introduced — are interviewed twice a year for the next six years, whether they move away or split up. After the first year, it's possible that new members will join them. New joiners, called cohabitants in SLID, are interviewed as long as they continue to live with any longitudinal respondents. That's because the family make-up and family income situation of longitudinal respondents is of key interest. Cohabitants also form part of the cross-sectional data “sample”.

The labour and income questions are intended for people 16 and over. But children who were present in the original households are also followed for the full six years. When they turn 15 they complete a preliminary interview. The following year they join other longitudinal respondents in completing both labour and income interviews.

Major longitudinal research themes

Discussions with prospective users and insights from other panel surveys with similar content helped in developing the following seven major research themes. They illustrate some of the survey's potential. Depending on the angle of study, it may make sense to use individuals, jobs, employers, or spells (of unemployment for example) as the unit of analysis. SLID covers up to six jobs and six employers that a person might have during one year.

Employment and unemployment dynamics

Usually, labour force activity data show the net changes in employment, unemployment and inactivity between two months or years; SLID will also show the flows how many individuals experience a change one way or the other in any time period. Flow data of persons or jobs are possible by

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industry, occupation, or worker characteristics. Durations of spells will be of interest too; for example, to what extent are long spells of unemployment experienced by the same individuals? What are the major determinants? Why do people withdraw from the labour market, and what precedes a transition into self-employment?

Life cycle labour market transitions

One can study major labour market transitions associated with particular stages of the life cycle, such as transitions from school to work, transitions from work to retirement and work absences taken to have or raise children. What are typical life-cycle patterns in Canada today? What are the subsequent activities of high school drop-outs, and what precedes a return to school?

Job quality

SLID will support research in such areas as wage differences between men and women, under-employment, occupational mobility, earnings growth over a period of several years, and wage and hours polarisation among the working population.

Family economic mobility

How stable is family income? What proportion of families experience a significant improvement or deterioration in income between two points in time? What are the determinants of these changes? How important are changes in family composition (divorce, remarriage) in explaining a change in financial well-being?

Dynamics of low income

This research theme concerns the prevalence and duration of spells of low income and the factors related to families moving into or out of low income. Researchers may attempt to isolate and characterize a “persistently poor” subpopulation, as has been done using other longitudinal surveys. There will also be interest in looking at receipt of Employment Insurance benefits, social assistance and other government transfers in relation to flows into and out of low income.

Life events and family changes

Central to SLID's demographic potential is information on family relationships, which will make it possible to accurately identify blended and multi-generational families, for example. The longitudinal aspect will permit the study of life events and

their determinants or impact. For example, what are the family's economic circumstances preceding a marriage break-up, and what are they for each spouse and any children following a separation?

Educational advancement and combining school and work

It will be possible to view educational activity and attainment in the evolving context of an individual's other activities and family circumstances. What are the family circumstances of young people pursuing post-secondary education? How much do high school or postsecondary students combine work and school?

Household relationships

This survey could be called the Survey of Labour, Income and Family Dynamics, since it has complete information on complex family structures and changes. How does it do this?

Unlike most household surveys which describe how household members are related to one specific reference person, SLID asks explicitly about the relationship among all members of a household. Information on complex family structures — for example, blended or multigenerational families — can help in understanding family dynamics.

However, because families change, it isn't possible to present data for exactly the same *families* over time. Instead, the same *individuals* are analysed in light of their family characteristics, for example their family's income, or whether they belong to a blended family.

Cross-sectional analysis

Many of the longitudinal research themes can have similar counterparts on the cross-sectional side. There will not be explored here as the history and usage of cross-sectional data is well-established, compared to longitudinal analysis. Two particular aspects of SLID make its use for cross-sectional analysis appealing. First, the breadth of content combined with a relatively large sample make it a unique and valuable

data set. Second, SLID will be the only annual source of detailed cross-sectional income data starting with reference year 1998 data.

Two types of weights

Two types of respondent weights are required for the two types of information: longitudinal and cross-sectional. Only longitudinal respondents have a longitudinal weight. For Panel 1, this is representative of the population in January 1993. The cross-sectional weights cover both longitudinal respondents and cohabitants, and they sum to the population in January of the survey year. Cross-sectional weights apply in time series analysis and in studies focussing on a single year.

Computer assisted interviewing

SLID uses computer-assisted interviewing (CAI) for data collection. With CAI, computers (usually lap-tops) replace paper and interviewers key in reported information during the interview.

Especially because of its complexity as a longitudinal survey, SLID benefits greatly from CAI's potential for improving data quality. For example, there are many dates to collect in the course of a labour interview — dates worked, dates of jobless spells, absences from work and so on. With CAI, interviewers can feed back information that the respondent gave in the last interview. This can help respondents remember start and end dates of jobs, reducing the tendency to incorrectly associate them with the beginning or end of calendar years. CAI also makes it possible to reconcile the split labour and income interviews: the computerized questionnaire checks for logical inconsistencies between what was reported in January and what is reported in May. When an inconsistency arises, the interviewer can immediately probe the respondent for clarification.

Computer-assisted interviewing also keeps track of returning members in the household and repeat employers, rather than treating them as completely new.

CONTENT THEMES

SLID collects data on a wide range of topics. Some are inherently “dynamic”, involving transitions and spells, and others have important explanatory value. The following are the content themes organized under the topics of labour, income and wealth, education, and personal characteristics, including selections of the variables they contain (See also Figure 2).

I. Labour

Nature and pattern of labour market activities

- major activity during year
- spells of employment and unemployment (start and end dates, durations)
- weekly labour force status
- total weeks of employment, unemployment and inactivity by year
- multiple job-holding spells
- work absence spells

Work experience

- years of full-time and part-time employment
- years of experience in full-time, full-year equivalents

Characteristics of jobless spells

- job search during spell
- dates of search spells
- desire for employment
- reason for not looking

Job characteristics (all characteristics updated each year and dates of changes recorded; collected for up to six jobs per year)

- start and end dates, first date ever worked for this employer
- wage
- work schedule (hours and type)
- benefits

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- union membership
- occupation
- supervisory and managerial responsibilities
- class of worker
- tenure
- how job was obtained
- reason for job separation

Characteristics of work absences lasting one or more weeks (collected on first and last absence each year, for each employer)

- absence dates
- reason
- paid or unpaid

Employer attributes

- industry
- firm size
- public or private sector

II. Income and wealth

Personal income

- annual information on about 25 income sources
- total income
- taxes paid
- after tax income

Receipt of compensation (whether benefits were received from each source and, if so, in which months)

- Employment Insurance
- Social Assistance
- Workers' Compensation

Assets and debts

- Although no data have yet been collected, eventually information may be collected once or twice in life of panel on roughly 20 asset and debt categories.

III. Education

Educational activity

- enrolled in a credit program, months attended
- type of institution
- full-time or part-time student
- certificates received (if applicable)

Educational attainment (updated annually)

- years of schooling
- degrees and diplomas
- major field of study

IV. Personal characteristics

Demographics

- year of birth / age
- sex
- duration of current marital status
- year/age at first marriage

Ethno-cultural

- ethnic background
- member of an Employment Equity designated group
- mother tongue
- date of immigration
- country of birth
- parents' schooling and place of birth

Activity limitation

- annual information on activity limitations and their impact on working
- satisfaction with work

Information on person's children

- number of children born, raised
- year and person's age when first child born

Geography and geographic mobility

- economic region or census metropolitan area of current residence
- size of community
- moved during year
- move dates
- reason for move
- nature of move (full household/household split)

Household and economic and census family information (annual summary information, e.g., size, type)

- key characteristics of other individuals in household/family (e.g., age, sex, relationship, income, annual hours worked)
- relevant low-income cutoff
- family events (marriage, separation, death, birth)
- dwelling type and tenure

SLID PRODUCTS AND SERVICES

For information or to order, contact the Client Services at:

TELEPHONE: 1-888-297-7355 or (613) 951-7355

FAX: (613) 951-3012

INTERNET: dynamics@statcan.ca

Survey of Labour and Income Dynamics
Statistics Canada
Jean Talon Building, 7th Floor, Section B-5
Tunney's Pasture
Ottawa, Ontario
Canada
K1A 0T6

Standard products

Guide:

Survey of Labour and Income Dynamics Microdata User's Guide

75M0001GPE

A comprehensive description of the survey design, content and methods; includes record layout and data dictionary
Current issue: Wave 2 1994 English (75M0001GPE) or French (75M0001GPF)

Price: \$25, or included with the microdata on CD-ROM

Microdata on CD-ROM:

Survey of Labour and Income Dynamics Public Use Microdata (CD-ROM)

75M0001XCB ISSN: 1203-4932

Public use microdata files in ASCII format. Includes software for data manipulation (BEYOND 20/20™), record layout and data dictionary

Current issue: Wave 2 1994 Bilingual

Price: varies

Electronic Dictionary:

SLID Electronic Data Dictionary (SEDD)

75F0026XIB

A useful tool to identify variables relevant to the desired analysis.

Current issue: Wave 2 1994 Bilingual

Price: free

Analytic publication:

Dynamics of Labour and Income

75-201-XPE ISSN: 1201-5725

Main analytical publication of the Survey of Labour and Income Dynamics

Current issue: 1994 Report

English (75-201-XPE) or French (75-201-XPF)

Price: \$37

Newsletter:

Dynamics

75-002-XPB

Quarterly newsletter for SLID data users

First issue: April 1992 Bilingual

Price: free (annual renewal required)

Abstracts:

SLID Working Paper Summaries

750020SPB

Compilation of abstracts for all SLID working papers released during the year. Annual supplement to the quarterly newsletter Dynamics.

Current issue: 1997 working papers Bilingual

Price: free (sent once a year with the newsletter Dynamics)

Working papers:

SLID Working Paper Series

75F0002MPE

Working papers of the Survey of Labour and Income Dynamics

Issues: listed in SLID Working Paper Summaries

English (75F0002MPE) or French (75F0002MPF)

Price: \$10 per copy; \$100 for annual subscription;

\$50 for diskette annual subscription

Overview:

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75F0011XPB

Brief description of the Survey of Labour and Income Dynamics

Current issue: June 1998 Bilingual

Price: free

Workshop:

Workshop for SLID data users

75H0001

Given by the survey staff, this workshop is intended for a wide range of persons who require a working knowledge of

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the survey. Offered where and when the demand is sufficient.
English or French
Price: varies

SCF Income data:

Income Historical Review (1980-1996) on CD-ROM
137F0022XCB ISSN: 148-8641

Collection of 42 income tables derived from the Survey of Consumer Finances (SCF), covering the reference years 1980 to 1996. The BEYOND 20/20™ Browser software is used to access the data.

Current issue: 1998, annual Bilingual
Price: \$195

Custom products

Custom retrievals 75C0002

This is the simplest approach, but can also be the most costly. In consultation with a survey analyst, the data user specifies the required tables. A survey officer produces the tables using the internal survey database. Suppression of the values in certain cells is performed for reasons of confidentiality and/or data quality. The output is then delivered to the client. The charge to the client is based on Statistics Canada's costs related to the request, i.e. cost recovery.

“Do-it-yourself” custom retrievals

A data user may write a program to be sent to Statistics Canada in electronic form and run against the internal database. The output is reviewed by survey staff to ensure that no risk to confidentiality exists. After this step, the program results are delivered to the client. The cost is lower than that of custom retrievals. For those wishing to follow this approach, record layouts for the internal database are available upon request.

Prices outside Canada

Unless otherwise stated on the product, prices outside Canada are the same except in US dollars; a product sold for Cdn \$50 in Canada would be sold for US \$50 outside Canada. The publication 75-201-XPE (1994 Report) is available for US \$45 in the United States and US \$52 in other countries.

SLID ON THE INTERNET!

With the exception of data files, SLID products are available free of charge on the Internet at the following addresses. Alternatively, one can use the menu structure, starting with the Statistics Canada web site “www.statcan.ca”.

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<http://www.statcan.ca:80/english/freepub/75-002-XIB/free.htm>

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<http://www.statcan.ca:80/english/freepub/75F0011XIE/free.htm>

SLID microdata user's guide

<http://www.statcan.ca:80/english/freepub/75M0001GIE/free.htm>

SLID electronic data dictionary (SEDD)

<http://www.statcan.ca/english/SLID/diction.htm>

SLID Working paper series and Indexes

<http://www.statcan.ca/english/research/75F0002MIE/free.htm>

Note: you must take the capital letters and special characters into account in the addresses to access these documents.

Figure 2

SURVEY OF LABOUR AND INCOME DYNAMICS: ORGANIZATION OF CONTENT

