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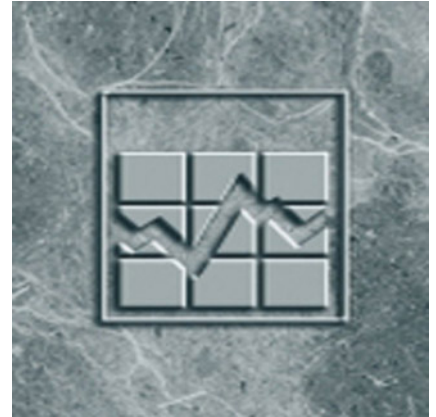
Income research paper series

Low income cutoffs from 1994 - 2003 and low income measures from 1992 - 2001

by Income Statistics Division

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Statistics Canada
Income Statistics Division

Income research paper series

Low income cutoffs from 1994 to 2003 and low income measures from 1992 to 2001

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Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.

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Abstract

Statistics Canada has been publishing data on low income Canadians for more than 30 years. In the past, these measures were published separately in: Low income cutoffs (LICO's) (13-551-XPB) and Low income measures, low income after-tax cutoffs and low income after-tax measures (13F0019-XPB). Henceforth, all these measure will be incorporated in this publication.

As well as the various cutoffs, this publication incorporates a detailed description of the methods used to arrive at them. There is also an explanation of how base years are defined, and how the cutoffs are updated using the Consumer Price Index.

Introduction

Statistics Canada has been publishing data on low income Canadians for more than 30 years. At first, only one measure was published: the low income cutoff, or LICO. Later, after-tax low income cutoffs were also published, but did not receive much attention because they were released after the before-tax cutoffs. In the early 90s, following the practice of many international organizations, Statistics Canada began to publish before- and after-tax low income measures, or LIMs. In the past, these measures were published separately in: Low income cutoffs (LICO's) (13-551-XPB) and Low income measures, low income after-tax cutoffs and low income after-tax measures (13F0019-XPB). Henceforth, all these measure will be incorporated in this publication.

As well as the various cutoffs, this publication incorporates a detailed description of the methods used to arrive at them. There is also an explanation of how base years are defined, and how the cutoffs are updated using the Consumer Price Index.

The four low income measures produced by Statistics Canada give different cutoffs and thus different rates, which can be confusing for the user. Numerous organizations and media tend to use one or other of these measures to gauge poverty in Canada, Statistics Canada urgings notwithstanding (see the note discussing poverty and low income, at the end of this document). Neither low income cutoffs nor low income measures were designed to measure poverty; at most, they were meant to show to what extent some Canadians are less well-off than others. Since opinions are divided as to what constitutes economic difficulties (just as they are over the meaning of "poverty"), Statistics Canada has decided to measure it in several ways, hence the four different measures.

Although they differ in the way they express the adequacy of individual and family income, all these measures are relative indicators of low income. The low income cutoffs are relative measures in that whenever a new base is established, the calculation of the cutoff changes to reflect changes in the spending patterns of Canadians. If we compare LICOs using the same base, we have a near-absolute measure, or at least one that is stable over time. LIMs, on the other hands, are always relative, since they are based on median income, which varies from year to year. Both measures are indicators – albeit imperfect ones – of one form or another of economic difficulties.

Low income cutoffs

LICOs are used to distinguish "low income" family units from "other" family units. A family unit is considered "low income" when its income is below the cutoff for its family size and its community. A family at or above the cutoff falls into the "other" category.

LICOs are set according to the proportion of annual family income spent on food, shelter and clothing. A new base year for LICOs is adopted from time to time; in other words, the cutoffs are adjusted to reflect more recent available data on family spending patterns.

Statistics Canada is currently using LICOs based on 1992 family spending data. Each year, LICOs are updated to allow for inflation as reflected in the Consumer Price Index (CPI). Therefore, price changes are taken into account, but spending patterns that have developed since 1992 are not reflected in LICOs or in related low income rates.

How are low income cutoffs calculated?

A LICO is an income threshold below which a family will likely devote a larger share of its income to the necessities of food, shelter and clothing than an average family would. When the cutoff was first established on the basis of the 1959 Family Expenditures Survey (FAMEX), an average family spent 50% of its pre-tax income on these necessities. Twenty points were added to this percentage on the assumption that a family spending 70% of its income on those items would be "in strained circumstances". This

70% threshold was then converted into a set of LICOs varying with family and community size.

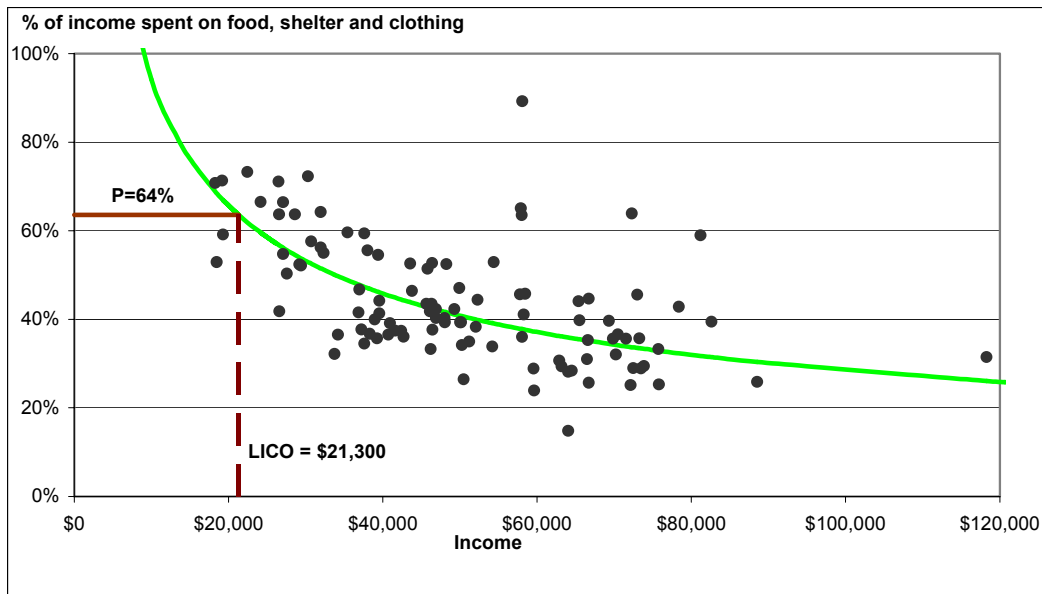
Since LICOs were introduced, family income has grown and the proportion of income allocated to necessities has fallen. Cutoffs are defined on the basis of average family expenditures, and have been updated periodically to match current spending patterns. The most recent base for LICOs is the 1992 Family Expenditures Survey, which showed that the average family spent 44% of its after-tax income on food, shelter and clothing.

Figure 1 shows the calculation of a LICO using the example of a family of four living in an urban community with a population between 30,000 and 99,999. The 64% line represents the average proportion of after-tax income that all families (regardless of size) spent on food, shelter and clothing in 1992, plus the 20 percentage point margin. The dots on the chart show the actual observed proportion of income spent by four-person families in medium-sized cities on necessities, according to the 1992 FAMEX. A regression line is calculated, based on relationship between spending and income. The intersection of the 64% line and the regression line corresponds to a low income cutoff of about \$21,300.

This process is carried out for seven family sizes¹ and five community sizes. Combining these gives a matrix of 35 cutoffs. This operation is done twice: once for before-tax cutoffs, once for after-tax cutoffs.

Figure 1

Calculation of an After-Tax LICO



New base year for LICOs

Since LICOs were first established, the average proportion of income allocated to food, shelter and clothing has fallen considerably. From time to time, a new base year has been adopted, so that LICOs will continue to reflect average family expenditure on the necessities. In addition to the 1992 base, LICOs have been based on the 1986, 1978, 1969 and 1959 Family Expenditure Surveys.

¹ Note that in the calculation of LICOs, contrary to the LIMs, no distinction is made by age of family members.

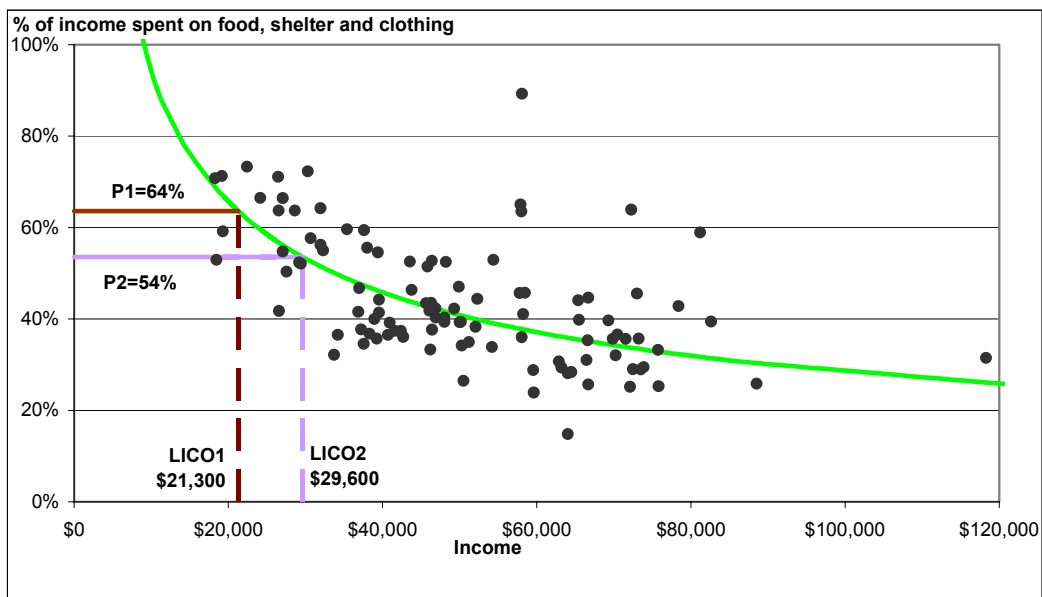
All other things being equal, when average income rises and the proportion of income spent on necessities falls, LICOs rise. This relationship, which emphasizes that LICOs are a relative measure of income inequality, is shown in Figure 2.

Figure 2 may be explained as follows: suppose the percentage of income spent on necessities is 44%. According to the standard LICO calculation, 20 percentage points are added to this, so that P1 equals 64%. The LICO is obtained by following the P1 = 64% line to the regression line drawn through the actual observed proportions of family income spent on necessities (in this case, by families of four in medium-sized cities). The LICO is about \$21,300.

Let us now suppose that average income rises and the proportion spent on necessities falls to 34%. (Such a change would normally occur over a long period; we use it here solely for purposes of illustration.) As before, we add 20 percentage points to obtain 54%. The LICO corresponding to this new proportion is about \$29,600. The LICO rises because the proportion of income spent on the necessities has fallen. (Reality is more complicated, because the entire curve would also move, but this example illustrates the point.)

Figure 2

Effect on the LICO of a fall in the proportion of income spent on food, shelter and clothing



Based on this description, it is not surprising that LICOs have risen over time. When the base year changed from 1986 to 1992, however, the impact on LICOs was relatively slight. Table 1 compares the 1992 base after-tax LICOs with the 1986 one.

Table 1

Comparison of LICOs, 1992 base vs. 1986 base (after tax)

Ratio of 1992 base LICOs to 1986 base LICOs after tax					
Community size					
Size of family unit	Rural areas	Urban areas			
		Less than 30,000*	30,000 to 99,999	100,000 to 499,999	500,000 and over
1	1.07	1.05	1.03	1.02	1.04
2	0.96	0.95	0.93	0.92	0.93
3	0.94	0.92	0.91	0.9	0.91
4	0.99	0.98	0.96	0.95	0.97
5	1.02	1.00	0.99	0.98	0.99
6	1.06	1.04	1.02	1.01	1.03
7 and more	1.09	1.07	1.05	1.04	1.06

*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).

Updating of LICOs without changing the base year

LICOs are updated by applying the CPI for the current year to the LICO for the reference year 1992², using the following formula:

$$LICO_y = \frac{LICO_b \times I_y}{I_b}$$

Where:

- LICO_y is the cutoff for the year y;
- LICO_b is the cutoff for the LICO base year b;
- I_y is the CPI for the year y;
- I_b is the CPI for the LICO base year b.

² LICOs for years prior to 1999 were updated by applying the CPI for the current year to the LICO for the previous year, according to the following formula:

$$LICO_y = \frac{LICO_{y-1} \times I_y}{I_{y-1}}$$

where:

- LICO_y is the cutoff for the current year y
- LICO_{y-1} is the cutoff for the previous year y-1
- I_y is the CPI for the current year y
- I_{y-1} is the CPI for the previous year y-1

Before 1998, the 1981-based CPI was used for annual updates of the LICO. For 1998 onwards, the 1992-based CPI was used.

Table 2

The 1992-based Consumer Price Index (CPI)

Year	CPI	Year	CPI
1980	52.4	1992	100.0
1981	58.9	1993	101.8
1982	65.3	1994	102.0
1983	69.1	1995	104.2
1984	72.1	1996	105.9
1985	75.0	1997	107.6
1986	78.1	1998	108.6
1987	81.5	1999	110.5
1988	84.8	2000	113.5
1989	89.0	2001	116.4
1990	93.3	2002	119.0
1991	98.5	2003	122.3

After-tax LICOs

The average portion of income that families spend on food, shelter and clothing, which figures prominently in the low income cutoffs, is undoubtedly a useful gauge of economic well-being no matter which income concept is used. The choice of after-tax income or total income – or even market income for that matter – depends on whether one wants to take into account the added spending power that a family gets from receiving government transfers and its reduced spending power from paying taxes.

In the past, Statistics Canada has produced two sets of low-income cutoffs and corresponding rates – those based on total income (i.e. income including government transfers, before the deduction of income taxes) and those based on after-tax income. The total income rates, called “before-tax rates”, were better known, mainly because the survey production cycle made them available earlier than the after-tax rates.

Starting with the publication of data for 1998, the two sets of rates are available simultaneously. This choice to highlight after-tax rates was made for two main reasons.

First, income taxes and transfers are essentially two methods of income redistribution. The before-tax rates only partly reflect the entire redistributive impact of Canada’s tax/transfer system, by including the effect of transfers but not the effect of income taxes. Second, since the purchase of necessities is made with after-tax dollars, it is logical to use people’s after-tax income to draw conclusions about their overall economic well-being.

A note about the calculation of before-tax versus after-tax low-income cutoffs: the derivation of each set of cutoffs is done independently. There is no simple relationship, such as the average amount of taxes payable, that distinguishes the two levels. Instead,

the entire calculation of cutoffs is done twice – both on a before-tax basis and on an after-tax basis.

Differences in after- and before-tax rates

After-tax low income cutoffs, and the resulting after-tax rates, have been published back to 1980. The number of people falling below the cutoffs has been consistently lower on an after-tax basis than on a before-tax basis. This result may appear inconsistent at first glance, since income after-tax cannot be any higher than they are before-tax, considering that all transfers, including refundable tax credits, are included in the definition of “before-tax” total income. However, with a relative measure of low income such as the LICO, this result is to be expected with any income tax system which, by and large, taxes those with more income at a higher rate than those with less. “Progressive” tax rates, as they are often called, make the distribution of income more compressed. Therefore, some families that are in low income before taking taxes into account are relatively better off and are not in low income on an after-tax basis.

Low income measures

The low income measure (LIM) is a fixed percentage (50%) of median adjusted family income, where “adjusted” indicates that family needs are taken into account. Adjustment for family sizes reflects the fact that a family’s needs increase as the number of members increases. Most would agree that a family of five has greater needs than a family of two. Similarly, the LIM allows for the fact that it costs more to feed a family of five adults than a family of two adults and three children.

LIMs have been published by Statistics Canada since 1991 and are available back to 1980. In this report, LIMs up and including 1995 have been produced by the Survey of Consumer Finances (SCF). From 1996 onward, the LIMs have been based on the Survey of Labour and Income Dynamics (SLID). As table 3 shows, there is a difference of about 1%, during the two years in which the surveys overlapped and SLID was at full sample.

Table 3

Difference between SLID and SCF based 1996 and 1997 LIMs, before, and after-tax

	SLID	SCF	SLID/SCF
One adult, 1996, after-tax	\$10,776	\$10,662	1.011
One adult, 1996, before-tax	\$12,737	\$12,652	1.007
One adult, 1997, after-tax	\$11,006	\$10,864	1.013
One adult, 1997, before-tax	\$13,013	\$12,914	1.008

Adjustment for family size

When comparing family incomes to study such things as income adequacy or socio-economic status, one often wants to take the family size into account. The income amount itself is not sufficient to understand a family’s financial well-being without knowing how many people are sharing it. Two approaches have been used to help with the analysis of family income. One is to produce data by detailed family types, so that within a given family type, differences in family size are not significant. In fact, many income measures have been crossed by detailed family types in the published tables.

The other way to take into account family size is to adjust the income amount, for the purposes of analysis only. The major challenge of this approach is to select an appropriate adjustment factor. It can be argued, however, that some adjustment is better than none.

The simplest method is to use per capita income, that is, to divide the family income by the family size. A limitation of per capita income, however, is that it tends to underestimate economic well-being for larger families as compared to smaller families. This is due to the fact that it assumes equal living costs for each member of the family, but some costs, primarily those related to shelter, decrease proportionately with family size (they may also be lower for children than for adults). For example, the shelter costs for an adult married couple with no children are arguably not much more than those for an adult living alone.

To take such economies of scale into account, it is common to use an "equivalence scale" to adjust family incomes. Instead of implicitly assuming equal costs for additional family members as the per capita approach does, the equivalence scale is a set of decreasing factors assigned to the first member, the second member, and so on. The adjusted income amount for the family is derived by dividing the income value by the sum of the factors assigned to each member.

There is no single equivalence scale in use in Canada. The one used in the published income tables and in concepts such as the low income measure (LIM) has, however, achieved a high degree of acceptance. In this equivalence scale, the factors are as follows:

- the oldest person in the family receives a factor of 1.0;
- the second oldest person in the family receives a factor of 0.4;
- all other family members aged 16 and over each receive a factor of 0.4;
- all other family members under age 16 receive a factor of 0.3.

For example, a couple without children or a single-parent family with one child both have a conversion factor of 1.4. A single-parent family with two children has a conversion factor of 1.8, and so on.

Table 4**Equivalence scale for the calculation of the LIM**

Family composition	Conversion factor
One adult	1.0
Two adults / One adult, one child	1.4
Three adults	1.8
Two adults, one child / One adult, two children	1.7
Four adults	2.2
Three adults, one child	2.1
Two adults, two children / One adult, three children	2.0
Five adults	2.6
Four adults, one child	2.5
Three adults, two children	2.4
Two adults, three children / One adult, four children	2.3
Six adults	3.0
Five adults, one child	2.9
Four adults, two children	2.8
Three adults, three children	2.7
Two adults, four children / One adult, five children	2.6

How are LIMs calculated?

The procedure is as follows:

- (i) Determine the “adjusted size” of each family (The first person is counted as 1.0 and the second person is counted as 0.4, regardless of age. Additional adults count as 0.4 and additional children count as 0.3.);
- (ii) calculate “adjusted family income” for each family by dividing family income by “adjusted family size”;
- (iii) determine the median “adjusted family income” that is the “adjusted family income”, such that half of all families will be above it and half below;
- (iv) the LIM for a family of one person is 50% of the median “adjusted family income”, and the LIMs for other kinds of family are equal to this value times their “adjusted family size”;
- (v) repeat the calculation for each year for which LIMs are to be established.

After-tax LIMs

As with LICOs, the derivation of each set of cutoffs is done independently. There is no simple relationship, such as the average amount of taxes payable, which distinguishes the two levels. Instead, the entire calculation of cutoffs is done twice – both on a before-tax basis and on an after-tax basis.

**Tables: Low income cutoffs (1992 base) 1994 to
2003 After-tax**

Low income cutoffs (1992 base) 1994 to 2003 AFTER-TAX

Size of family unit	Community size				
	Rural areas	Urban areas			
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
1994					
1 person	8,940	10,333	11,309	11,486	13,635
2 persons	10,908	12,609	13,798	14,014	16,638
3 persons	13,797	15,948	17,452	17,726	21,043
4 persons	17,184	19,862	21,736	22,077	26,209
5 persons	19,206	22,199	24,293	24,675	29,294
6 persons	21,229	24,537	26,851	27,273	32,378
7 or more persons	23,252	26,874	29,408	29,871	35,462
1995					
1 person	9,136	10,560	11,557	11,738	13,934
2 persons	11,148	12,886	14,101	14,322	17,003
3 persons	14,100	16,298	17,835	18,115	21,505
4 persons	17,561	20,298	22,213	22,562	26,785
5 persons	19,628	22,687	24,827	25,217	29,937
6 persons	21,695	25,076	27,441	27,872	33,089
7 or more persons	23,763	27,464	30,054	30,527	36,241
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 AFTER-TAX

Size of family unit	Community size				
	Rural areas	Urban areas			
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
1996					
1 person	9,276	10,721	11,733	11,917	14,147
2 persons	11,318	13,083	14,316	14,541	17,263
3 persons	14,315	16,547	18,107	18,392	21,833
4 persons	17,829	20,608	22,552	22,907	27,194
5 persons	19,928	23,033	25,206	25,602	30,394
6 persons	22,026	25,459	27,860	28,298	33,594
7 or more persons	24,126	27,883	30,513	30,993	36,794
1997					
1 person	9,426	10,894	11,923	12,110	14,376
2 persons	11,501	13,294	14,547	14,776	17,542
3 persons	14,546	16,814	18,400	18,689	22,186
4 persons	18,117	20,941	22,916	23,277	27,633
5 persons	20,250	23,405	25,613	26,016	30,885
6 persons	22,382	25,870	28,310	28,755	34,137
7 or more persons	24,516	28,333	31,006	31,494	37,388
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 AFTER-TAX

Size of family unit	Community size				
	Rural areas	Urban areas			
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
1998					
1 person	9,514	10,995	12,034	12,223	14,510
2 persons	11,608	13,418	14,682	14,913	17,705
3 persons	14,681	16,970	18,571	18,863	22,392
4 persons	18,285	21,136	23,129	23,493	27,890
5 persons	20,438	23,623	25,851	26,258	31,172
6 persons	22,590	26,110	28,573	29,022	34,454
7 or more persons	24,744	28,596	31,294	31,787	37,735
1999					
1 person	9,684	11,194	12,250	12,442	14,771
2 persons	11,817	13,659	14,947	15,182	18,024
3 persons	14,946	17,276	18,905	19,202	22,796
4 persons	18,615	21,517	23,546	23,916	28,392
5 persons	20,806	24,048	26,317	26,730	31,733
6 persons	22,997	26,580	29,087	29,544	35,075
7 or more persons	25,188	29,111	31,857	32,359	38,416
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 AFTER-TAX

Size of family unit	Community size				
	Rural areas	Urban areas			
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
2000					
1 person	9,947	11,498	12,583	12,780	15,172
2 persons	12,138	14,030	15,353	15,594	18,513
3 persons	15,352	17,745	19,419	19,723	23,415
4 persons	19,120	22,101	24,186	24,565	29,163
5 persons	21,371	24,701	27,031	27,456	32,595
6 persons	23,622	27,301	29,877	30,346	36,027
7 or more persons	25,872	29,902	32,722	33,237	39,459
2001					
1 person	10,201	11,791	12,904	13,107	15,559
2 persons	12,448	14,388	15,745	15,992	18,986
3 persons	15,744	18,198	19,915	20,227	24,013
4 persons	19,609	22,665	24,804	25,192	29,908
5 persons	21,917	25,332	27,722	28,157	33,428
6 persons	24,225	27,999	30,640	31,122	36,948
7 or more persons	26,533	30,666	33,558	34,087	40,468
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 AFTER-TAX

Size of family unit	Community size				
	Rural areas	Urban areas			
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
2002					
1 person	10,429	12,055	13,192	13,399	15,907
2 persons	12,726	14,710	16,097	16,349	19,410
3 persons	16,096	18,604	20,360	20,679	24,550
4 persons	20,047	23,172	25,358	25,755	30,576
5 persons	22,407	25,898	28,341	28,786	34,174
6 persons	24,766	28,624	31,324	31,817	37,773
7 or more persons	27,126	31,351	34,308	34,848	41,372
2003					
1 person	10,718	12,389	13,558	13,771	16,348
2 persons	13,079	15,118	16,544	16,803	19,948
3 persons	16,542	19,120	20,924	21,252	25,230
4 persons	20,603	23,814	26,061	26,469	31,424
5 persons	23,028	26,616	29,127	29,584	35,122
6 persons	25,453	29,418	32,193	32,699	38,820
7 or more persons	27,878	32,220	35,259	35,814	42,519
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

**Tables: Low Income Cutoffs (1992 Base) 1994 to
2003 Before Tax**

Low income cutoffs (1992 base) 1994 to 2003 BEFORE-TAX

Community size					
Size of family unit	Rural areas		Urban areas		
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
1994					
1 person	11,410	13,086	14,063	14,162	16,511
2 persons	14,263	16,357	17,579	17,702	20,639
3 persons	17,739	20,343	21,863	22,016	25,668
4 persons	21,472	24,626	26,465	26,650	31,071
5 persons	24,003	27,527	29,583	29,791	34,731
6 persons	26,533	30,428	32,702	32,931	38,393
7 or more persons	29,064	33,329	35,820	36,072	42,054
1995					
1 person	11,661	13,373	14,372	14,473	16,874
2 persons	14,576	16,716	17,965	18,091	21,092
3 persons	18,129	20,790	22,343	22,500	26,232
4 persons	21,944	25,167	27,046	27,235	31,753
5 persons	24,530	28,132	30,233	30,445	35,494
6 persons	27,116	31,096	33,420	33,654	39,236
7 or more persons	29,702	34,061	36,607	36,864	42,978
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 BEFORE-TAX

Community size					
Size of family unit	Rural areas		Urban areas		
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
1996					
1 person	11,839	13,577	14,591	14,694	17,132
2 persons	14,799	16,971	18,239	18,367	21,414
3 persons	18,406	21,107	22,684	22,844	26,633
4 persons	22,279	25,551	27,459	27,651	32,238
5 persons	24,905	28,562	30,695	30,910	36,036
6 persons	27,530	31,571	33,930	34,168	39,835
7 or more persons	30,156	34,581	37,166	37,427	43,634
1997					
1 person	12,030	13,796	14,827	14,931	17,409
2 persons	15,038	17,245	18,534	18,664	21,760
3 persons	18,703	21,448	23,050	23,213	27,063
4 persons	22,639	25,964	27,903	28,098	32,759
5 persons	25,307	29,023	31,191	31,409	36,618
6 persons	27,975	32,081	34,478	34,720	40,479
7 or more persons	30,643	35,140	37,766	38,032	44,339
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 BEFORE-TAX

Community size					
Size of family unit	Rural areas		Urban areas		
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
1998					
1 person	12,142	13,924	14,965	15,070	17,571
2 persons	15,178	17,405	18,706	18,837	21,962
3 persons	18,877	21,647	23,264	23,429	27,315
4 persons	22,849	26,205	28,162	28,359	33,063
5 persons	25,542	29,293	31,481	31,701	36,958
6 persons	28,235	32,379	34,798	35,043	40,855
7 or more persons	30,928	35,467	38,117	38,385	44,751
1999					
1 person	12,361	14,176	15,235	15,341	17,886
2 persons	15,450	17,720	19,044	19,176	22,357
3 persons	19,216	22,037	23,683	23,849	27,805
4 persons	23,260	26,677	28,669	28,869	33,658
5 persons	26,002	29,820	32,047	32,272	37,624
6 persons	28,743	32,962	35,425	35,674	41,590
7 or more persons	31,485	36,105	38,803	39,076	45,556
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 BEFORE-TAX

Community size					
Size of family unit	Rural areas		Urban areas		
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
2000					
1 person	12,696	14,561	15,648	15,757	18,371
2 persons	15,870	18,201	19,561	19,697	22,964
3 persons	19,738	22,635	24,326	24,497	28,560
4 persons	23,892	27,401	29,448	29,653	34,572
5 persons	26,708	30,629	32,917	33,148	38,646
6 persons	29,524	33,857	36,387	36,642	42,719
7 or more persons	32,340	37,085	39,857	40,137	46,793
2001					
1 person	13,021	14,933	16,048	16,160	18,841
2 persons	16,275	18,666	20,060	20,200	23,551
3 persons	20,242	23,214	24,948	25,123	29,290
4 persons	24,502	28,101	30,200	30,411	35,455
5 persons	27,390	31,412	33,758	33,995	39,633
6 persons	30,278	34,722	37,317	37,579	43,811
7 or more persons	33,166	38,033	40,875	41,163	47,988
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Low income cutoffs (1992 base) 1994 to 2003 BEFORE-TAX

Community size					
Size of family unit	Rural areas		Urban areas		
		Less than 30,000 *	30,000 to 99,999	100,000 to 499,999	500,000 and over
2002					
1 person	13,311	15,267	16,407	16,521	19,261
2 persons	16,639	19,083	20,508	20,651	24,077
3 persons	20,694	23,732	25,505	25,684	29,944
4 persons	25,050	28,729	30,875	31,090	36,247
5 persons	28,002	32,113	34,512	34,754	40,518
6 persons	30,954	35,498	38,150	38,418	44,789
7 or more persons	33,907	38,882	41,788	42,082	49,060
2003					
1 person	13,680	15,690	16,862	16,979	19,795
2 persons	17,100	19,612	21,077	21,224	24,745
3 persons	21,268	24,390	26,213	26,396	30,774
4 persons	25,744	29,526	31,731	31,952	37,253
5 persons	28,778	33,004	35,469	35,718	41,642
6 persons	31,813	36,482	39,208	39,483	46,031
7 or more persons	34,847	39,960	42,947	43,249	50,421
*Includes cities with a population between 15,000 and 30,000 and small urban areas (under 15,000).					

Tables: Low Income Measures 1992 to 2001 After-Tax

Low income measures by family type, 1992 to 2001 AFTER-TAX

1992

Number of adults	Number of children					
	0	1	2	3	4	5
1	10,239	14,335	17,406	20,478	23,550	26,621
2	14,335	17,406	20,478	23,550	26,621	29,693
3	18,430	21,502	24,574	27,645	30,717	
4	22,526	25,598	28,669			
5	26,621	29,693				
6	30,717					

1993

Number of adults	Number of children					
	0	1	2	3	4	5
1	10,096	14,134	17,163	20,192	23,221	26,250
2	14,134	17,163	20,192	23,221	26,250	29,278
3	18,173	21,202	24,230	27,259	30,288	
4	22,211	25,240	28,269			
5	26,250	29,278				
6	30,288					

1994

Number of adults	Number of children					
	0	1	2	3	4	5
1	10,382	14,535	17,649	20,764	23,879	26,993
2	14,535	17,649	20,764	23,879	26,993	30,108
3	18,688	21,802	24,917	28,031	31,146	
4	22,840	25,955	29,070			
5	26,993	30,108				
6	31,146					

Low income measures by family type, 1992 to 2001 AFTER-TAX

1995

Number of adults	Number of children					
	0	1	2	3	4	5
1	10,537	14,752	17,913	21,074	24,235	27,396
2	14,752	17,913	21,074	24,235	27,396	30,557
3	18,967	22,128	25,289	28,450	31,611	
4	23,181	26,343	29,504			
5	27,396	30,557				
6	31,611					

1996

Number of adults	Number of children					
	0	1	2	3	4	5
1	10,746	15,044	18,268	21,492	24,716	27,940
2	15,044	18,268	21,492	24,716	27,940	31,163
3	19,343	22,567	25,790	29,014	32,238	
4	23,641	26,865	30,089			
5	27,940	31,163				
6	32,238					

1997

Number of adults	Number of children					
	0	1	2	3	4	5
1	11,005	15,407	18,709	22,010	25,312	28,613
2	15,407	18,709	22,010	25,312	28,613	31,915
3	19,809	23,111	26,412	29,714	33,015	
4	24,211	27,513	30,814			
5	28,613	31,915				
6	33,015					

* The low income measures have been updated to take into account revisions in the income data for 1996, 1997, 1998 and 1999.

Low income measures by family type, 1992 to 2001 AFTER-TAX

1998

Number of adults	Number of children					
	0	1	2	3	4	5
1	11,442	16,019	19,451	22,884	26,317	29,749
2	16,019	19,451	22,884	26,317	29,749	33,182
3	20,596	24,028	27,461	30,893	34,326	
4	25,172	28,605	32,038			
5	29,749	33,182				
6	34,326					

1999

Number of adults	Number of children					
	0	1	2	3	4	5
1	11,960	16,744	20,332	23,920	27,508	31,096
2	16,744	20,332	23,920	27,508	31,096	34,684
3	21,528	25,116	28,704	32,292	35,880	
4	26,312	29,900	33,488			
5	31,096	34,684				
6	35,880					

2000

Number of adults	Number of children					
	0	1	2	3	4	5
1	12,468	17,455	21,196	24,936	28,676	32,417
2	17,455	21,196	24,936	28,676	32,417	36,157
3	22,442	26,183	29,923	33,664	37,404	
4	27,430	31,170	34,910			
5	32,417	36,157				
6	37,404					

* The low income measures have been updated to take into account revisions in the income data for 1996, 1997, 1998 and 1999.

Low income measures by family type, 1992 to 2001 AFTER-TAX

2001

Number of adults	Number of children					
	0	1	2	3	4	5
1	13,243	18,540	21,189	25,162	29,135	33,108
2	18,540	22,513	26,486	30,459	34,432	38,405
3	23,837	27,810	31,783	35,756	39,729	
4	29,135	33,108	37,080			
5	34,432	38,405				
6	39,729					

* The low income measures have been updated to take into account revisions in the income data for 1996, 1997, 1998 and 1999.

Tables: Low Income Measures 1992 to 2001 Before-Tax

Low income measures by family type, 1992 to 2001 BEFORE-TAX

1992

Number of adults	Number of children					
	0	1	2	3	4	5
1	12,178	17,049	20,703	24,356	28,009	31,663
2	17,049	20,703	24,356	28,009	31,663	35,316
3	21,920	25,574	29,227	32,881	36,534	
4	26,792	30,445	34,098			
5	31,663	35,316				
6	36,534					

1993

Number of adults	Number of children					
	0	1	2	3	4	5
1	12,011	16,815	20,419	24,022	27,625	31,229
2	16,815	20,419	24,022	27,625	31,229	34,832
3	21,620	25,223	28,826	32,430	36,033	
4	26,424	30,028	33,631			
5	31,229	34,832				
6	36,033					

1994

Number of adults	Number of children					
	0	1	2	3	4	5
1	12,299	17,219	20,908	24,598	28,288	31,977
2	17,219	20,908	24,598	28,288	31,977	35,667
3	22,138	25,828	29,518	33,207	36,897	
4	27,058	30,748	34,437			
5	31,977	35,667				
6	36,897					

Low income measures by family type, 1992 to 2001 BEFORE-TAX

1995

Number of adults	Number of children					
	0	1	2	3	4	5
1	12,532	17,545	21,304	25,064	28,824	32,583
2	17,545	21,304	25,064	28,824	32,583	36,343
3	22,558	26,317	30,077	33,836	37,596	
4	27,570	31,330	35,090			
5	32,583	36,343				
6	37,596					

1996

Number of adults	Number of children					
	0	1	2	3	4	5
1	12,652	17,713	21,508	25,304	29,100	32,895
2	17,713	21,508	25,304	29,100	32,895	36,691
3	22,774	26,569	30,365	34,160	37,956	
4	27,834	31,630	35,426			
5	32,895	36,691				
6	37,956					

1997

Number of adults	Number of children					
	0	1	2	3	4	5
1	12,987	18,182	22,078	25,974	29,870	33,766
2	18,182	22,078	25,974	29,870	33,766	37,662
3	23,377	27,273	31,169	35,065	38,961	
4	28,571	32,468	36,364			
5	33,766	37,662				
6	38,961					

Low income measures by family type, 1992 to 2001 BEFORE-TAX

1998

Number of adults	Number of children					
	0	1	2	3	4	5
1	13,606	19,048	23,130	27,212	31,294	35,376
2	19,048	23,130	27,212	31,294	35,376	39,457
3	24,491	28,573	32,654	36,736	40,818	
4	29,933	34,015	38,097			
5	35,376	39,457				
6	40,818					

1999

Number of adults	Number of children					
	0	1	2	3	4	5
1	14,088	19,723	23,950	28,176	32,402	36,629
2	19,723	23,950	28,176	32,402	36,629	40,855
3	25,358	29,585	33,811	38,038	42,264	
4	30,994	35,220	39,446			
5	36,629	40,855				
6	42,264					

2000

Number of adults	Number of children					
	0	1	2	3	4	5
1	14,734	20,628	25,048	29,468	33,888	38,308
2	20,628	25,048	29,468	33,888	38,308	42,729
3	26,521	30,941	35,362	39,782	44,202	
4	32,415	36,835	41,255			
5	38,308	42,729				
6	44,202					

**Low income measures by family type, 1992 to 2001
BEFORE-TAX**

2001

Number of adults	Number of children					
	0	1	2	3	4	5
1	15,470	21,658	24,752	29,393	34,034	38,675
2	21,658	26,299	30,940	35,581	40,222	44,863
3	27,846	32,487	37,128	41,769	46,410	
4	34,034	38,675	43,316			
5	40,222	44,863				
6	46,410					

On poverty and Low income

The author of this article is Ivan P. Fellegi, Chief Statistician of Canada

Recently the news media have provided increasing coverage of Statistics Canada's low income cutoffs and their relationship to the measurement of poverty. At the heart of the debate is the use of the low income cutoffs as poverty lines, even though Statistics Canada has clearly stated, since their publication began over 25 years ago, that they are not. The high profile recently given to this issue has presented Statistics Canada with a welcome opportunity to restate its position on these issues.

Many individuals and organizations both in Canada and abroad understandably want to know how many people and families live in "poverty", and how these levels change. Reflecting this need, different groups have at different times developed various measures which purported to divide the population into those who were poor and those who were not.

In spite of these efforts, there is still no internationally-accepted definition of poverty - unlike measures such as employment, unemployment, gross domestic product, consumer prices, international trade and so on. This is not surprising, perhaps, given the absence of an international consensus on what poverty is and how it should be measured. Such consensus preceded the development of all other international standards.

The lack of an internationally-accepted definition has also reflected indecision as to whether an international standard definition should allow comparisons of well-being across countries compared to some international norm, or whether poverty lines should be established according to the norms within each country.

The proposed poverty lines have included, among others, relative measures (you are poor if your means are small compared to others in your population) and absolute measures (you are poor if you lack the means to buy a specified basket of goods and services designated as essential). Both approaches involve judgmental and, hence, ultimately arbitrary choices.

In the case of the relative approach, the fundamental decision is what fraction of the overall average or median income constitutes poverty. Is it one-half, one-third, or some other proportion? In the case of the absolute approach, the number of individual judgements required to arrive at a poverty line is far larger. Before anyone can calculate the minimum income needed to purchase the "necessities" of life, they must decide what constitutes a "necessity" in food, clothing, shelter and a multitude of other purchases, from transportation to reading material.

The underlying difficulty is due to the fact that poverty is intrinsically a question of social consensus, at a given point in time and in the context of a given country. Someone acceptably well off in terms of the standards in a developing country might well be considered desperately poor in Canada. And even within the same country, the outlook changes over time. A standard of living considered as acceptable in the previous century might well be viewed with abhorrence today.

It is through the political process that democratic societies achieve social consensus in domains that are intrinsically judgmental. The exercise of such value judgements is certainly not the proper role of Canada's national statistical agency which prides itself on its objectivity, and whose credibility depends on the exercise of that objectivity.

In Canada, the Federal/Provincial/Territorial Working Group on Social Development Research and Information was established to create a method of defining and measuring poverty. This group, created by Human Resources Development Canada and social services ministers in the various jurisdictions, has proposed a preliminary market basket

measure of poverty - a basket of market-priced goods and services. The poverty line would be based on the income needed to purchase the items in the basket.

Once governments establish a definition, Statistics Canada will endeavour to estimate the number of people who are poor according to that definition. Certainly that is a task in line with its mandate and its objective approach. In the meantime, Statistics Canada does not and cannot measure the level of "poverty" in Canada.

For many years, Statistics Canada has published a set of measures called the low income cutoffs. We regularly and consistently emphasize that these are quite different from measures of poverty. They reflect a well-defined methodology which identifies those who are substantially worse off than the average. Of course, being significantly worse off than the average does not necessarily mean that one is poor.

Nevertheless, in the absence of an accepted definition of poverty, these statistics have been used by many analysts to study the characteristics of the relatively worst off families in Canada. These measures have enabled us to report important trends, such as the changing composition of this group over time. For example, 20 to 30 years ago the elderly were by far the largest group within the "low income" category, while more recently lone-parent families headed by women have grown in significance.

Many people both inside and outside government have found these and other insights to be useful. As a result, when Statistics Canada carried out a wide-ranging public consultation a decade ago, we were almost unanimously urged to continue to publish our low income analyses. Furthermore, in the absence of a generally accepted alternative methodology, the majority of those consulted urged us to continue to use our present definitions.

In the absence of politically-sanctioned social consensus on who should be regarded as "poor", some people and groups have been using the Statistics Canada low-income lines as a de facto definition of poverty. As long as that represents their own considered opinion of how poverty should be defined in Canada, we have no quarrel with them: all of us are free to have our own views. But they certainly do not represent Statistics Canada's views about how poverty should be defined.

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