

Introduction

In Canada as well as internationally, there is a long-standing debate over how the economic
well-being of rural and farm families has changed over time and how this well-being
compares to the broader population.

- However, there is little consensus on how to best measure the economic well-being of farm families.
- Measuring accurately the economic well-being can provide an important indication of the quality of life for farm families.
- The Index of Economic Well-being developed by the Canadian Centre for the Study of Living Standards has suggested the economic well-being be measured as consumption flows, wealth stocks, income equality and economic security.
- · This presentation focuses on the first three of the economic well-being measures.

11-072-dp

Purpose

- To examine the potential use and the empirical issues of three measures of economic wellbeing related to farm and rural families:
- Income
- · wealth
- consumption
- To analyze differences between three measures of well-being at different parts of the distributions of income, wealth and consumption and benchmark the measures against all families in Canada
- Because averages give a very limited view of the economic well-being, distributions are the focus of this presentation.
- Economic well-being can be measured in absolute or in relative terms. This presentation focuses on distributions which is a relative measure of well-being.

11-072-dp

Canadian Data Sources for Measuring Economic Well-being

- The economic Well-being in Canada is measured in this analysis with both Survey and Administrative data sources:
- · Income Measure:
 - . For all Canadian families: Survey of Labour and Income Dynamics (SLID)
 - · For farm families: Canadian Farm Financial Database (CFFD)
- Wealth measure:
- For all Canadian families: Survey of Financial Securities (SFS)
- · For farm families: Farm Financial Survey (FFS)
- · Consumption Measure:
 - For all Canadian families and farm/rural families: Survey of Household Spending (SHS)

11-072-dp

Between 2001 and 2008, average farm family income was above that of all Canadian families by 13 to 21 percent.

However, measuring the economic wellbeing based on average income of farm families and comparing these with all Canadian families may miss important differences across parts of the distribution of income.

11-072-do



Share of families below Low Income Measure (LIM) is generally higher for farm families.

It is essential to look at the dispersion in family income which could provide a better indication of economic well-being across income

| Percentage | or ramii | ies belov | Low inc | ome mea | isure (ou: | 6 mediar | 1) IN 2002 | aoı |
|--------------------------|----------|-----------|---------|---------|------------|----------|------------|-----|
| | | | | | | | | |
| Farm families | 11.3% | 12.4% | 14.8% | 14.4% | 14.4% | 14.5% | 15.1% | 1 |
| All Canadian families | 12.5% | 13.4% | 12.8% | 12.7% | 12.8% | 12.4% | 12.1% | 12 |

Income-based Measures of Well-being

Income-based Measures of Well-being

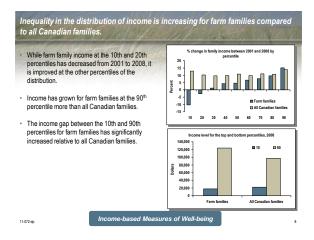
1

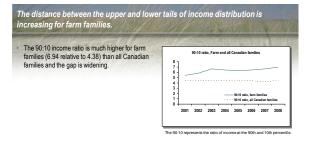
Farm families have a more dispersed distribution of income compared to all Canadian families. Although on average farm family income is higher than all Canadian, this is not true at the lower end. In 2008, family income of farm families, compared to all Canadian families, is higher at the mid-point of the distribution, but also is more dispersed—lower at the low end of the distribution and higher at the high end.

Income-based Measures of Well-being

11-072-do

11-072-do





Income levels are more dispersed among farm families, as reflected also in consistently higher Gini coefficients, than among all Canadian families.

The Gini for farm families rose from 0.360 in 2001 to 0.406 in 2008, implying widening income inequality, whereas the Gini for all Canadian families rose from 0.328 in 2001 to 0.335 in 2008.

Income-based Measures of Well-being

11-072-do

Wealth is also an important part of measuring well-being of farm families.

When current-year income is temporarily low, wealth provides a source of assets to borrow against during temporary income shortfalls.

Income-based Measures of Well-being

Wealth, which can be viewed as providing a degree of economic security, is at least as important to economic well-being as income.

· Wealth is also important in the well-being of families in retirement.

· Wealth generally is more stable than income.

Mean and median wealth of farm families are significantly more than that of all Canadian families.

In 2005, median wealth of farm families was more than four times the estimated median wealth of all Canadian families.

A large share of family wealth in the farm sector is in farmland, which increased substantially in value relative to other assets.

As with income, the mean and median wealth give only limited view of economic well-being.

Wealth-based Measures of Well-being

Wealth-based Measures of Well-being

In contrast to all Canadian families, wealth is more evenly distributed among

- For the 90:10, wealth ratio is significantly lower for farm than all Canadian families. Wealth is very concentrated at the top end of the distribution for all Canadian families.
- The Gini coefficients in 2005 were 0.524 for farm families and 0.657 for all Canadian families, suggesting that wealth levels is less disparate among farm families.

| Vealth Distribution | n, Farm Families (in 2002 dol | lars) |
|---------------------|-------------------------------|-------|
| | | |
| 0:10 | 10.74 | 12.33 |
| Bini | 0.494 | 0.524 |

| wealth distribution, Al | i Canadian Families (in 2 | uuz uullars) |
|-----------------------------|--------------------------------|-------------------|
| | | |
| 90:10 | 551.27 | 869.00 |
| Gini | 0.619 | 0.657 |
| The 90:10 represents the ra | atio of wealth at the 90th and | 10th percentiles. |

The greater equality in farm family wealth distribution is also reflected in the wealth shares by percentiles.

Relative to all Canadian families, the 10th, 20th, 30th, 40th, 50th, 60th, and 70th percentiles of farm family wealth distribution have higher total wealth shares, and the last two quantiles have a lower total wealth share.

In contrast to income, the last quantile of all Canadian families had negative wealth share and farm families had positive wealth share.

| Oth | 1.11 | 0.9 |
|------|-------|-------|
| Oth | 2.51 | 2.25 |
| Oth | 5.74 | 5.36 |
| 90th | 12.02 | 11.45 |
| 90th | 16.93 | 16.75 |

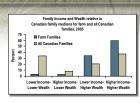
th Share, All Canadian Families by Percentile (in 2002 dollars

Wealth-based Measures of Well-being 11-072-do

Wealth-based Measures of Well-being

A better measure of well-being can be achieved by combining wealth and

- For all Canadian families, income and wealth are positively correlated: one-third of the lowincome group had low wealth and more than one-third of the high-income group had high
- · The pattern is significantly different for lowincome farm families: virtually all of them (34 percent) had high wealth, suggesting that for many, their wealth provides a source of assets to borrow against during temporary income shortfalls.



Consumption-based measure of well-being gives an indication of families' assessment of their overall financial position and prospects.

- Income may reflect fluctuations that have little impact on living standards.
- Wealth provides economic security, particularly, when there are temporary declines in income. Therefore, wealth is probably important and its inclusion changes the picture of the economic well-being of families.
- When families face temporary increases or decreases in income relative to long-term income expectations, they tend to smooth consumption relative to variable income in order to maintain a standard of living linked to their long-term income expectations.

Wealth-based Measures of Well-being 11-072-do

11-072-do

Consumption-based Measures of Well-bei

Mean and median consumption of farm families are comparable to those of all Canadian families.

In 2006, the estimate of mean farm family consumption is slightly lower. This is largely due to the lower cost of living in rural areas.

11-072-do

| | ian equivalent-income and e Canadian families, 2006 | quivalent-consumption by |
|----------|--|-------------------------------|
| | Family equivalent-income | Family equivalent-consumption |
| Mean \$ | 31,947 | 30,354 |
| Median S | 27.325 | 26.903 |

Distribution of consumption among farm families display patterns comparable to all Canadian families.

- For farm families, the 90:10 consumption ratio is lower than income ratio, suggesting that consumption is less dispersed (unequal) than income for farm families comparing to all Canadian families.
- · The Gini coefficient based on consumption measure was lower for farm families than the Gini based on income measure. This also reflects much less inequality for farm families based on consumption measure.

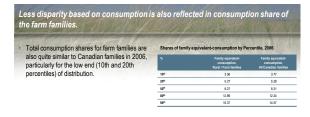
| | Family equivalent-income | Family equivalent-consumption |
|-------|--------------------------|-------------------------------|
| 90:10 | 6.01 | 3.95 |
| Gini | 0.391 | 0.282 |

ns of all Cana

Consumption-based Measures of Well-being

11-072-do

Consumption-based Measures of Well-beir



In contrast to income, distribution of consumption appears to be similar for farm and all Canadian families.

The net effect of considerably higher income, but a lower tendency to consume as income increases, is that the farm family distribution of consumption is very similar to that for all Canadian families.

Family Consumption by Percentile, 2006

To 000

To 00

Consumption-based Measures of Well-bein

Conclusion

- Three individual measures of economic well-being provide different pictures of farm families' well-being.
- This study reveals that farm families tend to have a more unequal income distribution relative to all Canadian families.
- · However, wealth distribution is more equal for farm families relative to all Canadian families.
- · The results show that incomes are more dispersed than consumption for farm families.
- To evaluate farm family well-being, measures of both income and consumption for rural and farm families are needed.

Key messages

- In measuring economic well-being, it is important that measure goes beyond averages or medians. Means and medians give a very limited view of the economic well-being.
- · Need to look beyond income to assess economic well-being of farm families.
- · Virtually all low-income farm families had relatively high wealth.
- · Consumption data can provide an important measure of well-being.
- Improvements in Canadian consumption data is important for measuring well-being of farm families and should be further developed.

11-072-ф 21 11-072-ф



samira.bakhshi@agr.gc.ca



11-072-dp