GSS 2011 Linked with T1FF: Exploring the Cost of Child Care in Canada and the Use of the Child Care Expense Deduction

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Abstract

Affordability of child care is fundamental to parents', in particular, women's decision to work. However, information on the cost of care in Canada is limited. The purpose of the current study was to examine the feasibility of using linked survey and administrative data to compare and contrast parent-reported child care costs based on two different sources of data. The linked file brings together data from the 2011 General Social Survey (GSS) and the annual tax files (TIFF) for the corresponding year (2010). Descriptive analyses were conducted to examine the socio-demographic and employment characteristics of respondents who reported using child care, and child care costs were compared. In 2011, parents who reported currently paying for child care (GSS) spent almost \$6700 per year (\$7,500 for children age 5 and under). According to the tax files, individuals claimed just over \$3900 per year (\$4,700). Approximately one in four individuals who reported child care costs on the GSS did not report any amount on their tax file; about four in ten who claimed child care on the tax file did not report any cost on the survey. Multivariate analyses suggested that individuals with a lower education, lower income, with Indigenous identity, and who were self-employed were less likely to make a tax claim despite reporting child care expenses on the GSS. Further examination of child care costs by province and by type of care are necessary, as is research to determine the most accurate way to measure and report child care costs.

Keywords: child development, affordability, early childhood, tax expense deduction, record linkage

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Statistics Canada's Executive Management Committee reviewed this project's proposal (#052-2017) to conduct a linkage. A summary of the approved microdata linkage is posted on Statistics Canada's website, Statistics Canada's website.

Introduction

"Affordability has been identified as a likely principle that will have a role in shaping child care policy across Canada" (Macdonald & Friendly, 2016).

Child care is an important policy issue for families and society at large, not only for the developmental benefit of the youngest members of society, but also it provides opportunities for parents, in particular mothers, to participate in the labour force. However, availability and affordability of child care are fundamental to women's decision to take on employment (Lefebvre & Merrigan, 2008; OECD, 2017; Fortin, 2017). Furthermore, child care options may contribute to the 'motherhood wage penalty' (Weeden, Cha & Buuca, 2016), whereby women with children may be more apt to reduce work hours and less likely to travel or move for work or to prioritize their career due to (unpaid) family obligations. Since cost of care is a large determinant of parental employment decisions, and thus gender-based employment equity, the current study explores the cost of child care for families. Previous research has relied on parent-reported cost of child care (e.g., Sinha, 2014); however, this study will explore both survey-reported and administrative data (from tax files) to examine the merits and limitations of each to inform future work on child care costs in Canada.

Recent information on the cost of care in Canada is limited to a handful of reports. Findings from the 2011 General Social Survey on Families (Sinha, 2014) suggested that one in eight families (outside Quebec) had no direct cost of child care for children age 14 and under, with the median cost per month varying from \$152 per month in Quebec to \$677 per month in Ontario. Other studies have suggested similar amounts, with child care fees for young children costing up to one third of a women's total income (MacDonald & Friendly, 2014), and fees being almost seven times higher in Ontario as compared to Quebec (Ferns & Friendly, 2014). Despite large government financial contributions toward child care, often in the form of subsidy programs, the main source of funding is often parent fees. For instance, among families living in Ontario with at least one child 0 to 4 years old, the average family spends approximately one-quarter (23.5%) of after-tax family income on child care (Cleveland, 2018). Although these studies provide basic information at the province and/or city level, there are several limitations including missing information on unregulated care, an inability to disentangle different aspects of that care (e.g., location, subsidies, type of care), and some studies being based on largely on urban care.

Child care costs may be supplemented by at least two different sources, both of which have limited eligibility. First, financial incentives such as tax expense deductions are one means by which governments can offset cost and increase participation in the child care market. Child care expenses can be claimed as a federal non-refundable expense deduction ² which allows taxpayers to reduce their payable taxes. Child care expenses are those expenses paid for someone to look after an eligible child³ in order for a parent to earn income from employment, run a business, attend

¹ Some provinces (e.g., Manitoba, PEI) have a maximum parent fee or cap on child care fees (Friendly et al., 2016).

² Non-refundable indicates that the tax payable is reduced by a certain amount. Individuals with no payable tax would not be eligible for the benefit, for example, individuals with less income than the basic personal amount (\$10,382 in 2010).

³ An eligible child is one that lived with the tax filer when the expense was incurred, and was within the appropriate age range (i.e., 16 years of age or less).

school, or conduct research. In 2010, the maximum claimable amount was \$7,000 for children born in 2004 or later, \$4000 for children born between 1994 and 2003, and \$10,000 for children born in 2010 or earlier and for whom the disability tax credit could be claimed⁴. Childcare expenses are generally claimed by the lower income earner (including a parent who earns no income). Eligible expenses include: licensed and unlicensed caregivers providing child care services; day nursery schools and daycare centres; educational institutions for the part of the fees that relate to child care services; day camps and day sports schools where the primary goal of the camp is to care for children; or boarding schools, overnight sports schools, or camps where lodging is involved.

Second, financial support for child care may be available from provincial or municipal organizations through subsidies. For example, in British Columbia, a new Affordable Child Care Benefit was implemented across the province in September, 2018 as a means to provide funding to assist families with the cost for care. In Ontario, subsidies are available through the provincial and municipal governments and First Nations communities. Parents can apply for full or partial subsidy based on such factors as residency, type of care, reason for care, special needs status and income (the amount paid is often determined by the family's adjusted net income). Finally, Quebec's unique child care model does not use a subsidy system but rather the province funds most regulated child care programs, making the parental contribution minimal (from \$7.30 per day up to \$20 per day, dependant on the level of household income). Although subsidies are an important source of funding for child care, administrative or parent-reported data on use and amount of child care subsidy information is sparse and not consistently reported by provinces and territories. Individual-level subsidy information would be useful to assess the extent to which families rely on subsidies, and how patterns of child care use differ by socio-demographic characteristics.

The purpose of the current study is to examine the feasibility of using linked survey and administrative data to compare and contrast parent-reported child care costs on the General Social Survey and information on parent's child care claim from tax information via the child care expense deduction. Survey-reported costs should be similar to what is claimed for tax purposes assuming that: 1) parents know and report an accurate estimate of incurred costs; 2) parents report child care expenses on their tax return; and 3) motivation to report accurately on both would be similar. It is possible that parents' reporting of child care expenses is higher than those from tax claims due to the maximum amount that can be reported as an expense deduction. An exploration of the characteristics of parents who claim the child care expense deduction will be performed and compared to those reporting child care costs in the GSS. This approach to studying child care costs will capitalize on extensive child care data and will be one of the first studies to explore the use of the child care expense deduction using tax-based information.

⁴ These amounts were increased in 2014 for comparable age groups to \$8,000, \$5,000, and \$11,000.

Methods

Data sources

Statistics Canada and other statistical agencies around the world are increasingly producing linked data files that combine survey information with administrative data. Administrative data are advantageous because they reduce response burden and survey collection costs, and also reduce recall or response bias particularly for sensitive information. The GSS-T1FF file brings together data from the 2011 General Social Survey (cycle 25) and the annual tax files (TIFF) from 1982 to 2013. More information on the linkage can be obtained from Statistics Canada (www.statcan.gc.ca/eng/sdle/index). This project will contribute to investigative work exploring the ways in which the GSS-T1FF file can be used to explore tax information, that is, to understand the use of the child care expense deduction in concert with a wealth of survey information on child care.

The 2011 General Social Survey on Families (GSS-2011) collected cross-sectional, retrospective information on the family life of Canadians. The target population included all persons 15 years of age and older in Canada, excluding residents of the Yukon, Northwest Territories, and Nunavut as well as full-time residents of institutions. The survey response rate was 65.8%, resulting in a final sample of 22,435 participants. Results thus represent Canadians aged 15 and older living in the provinces. Of these respondents, 3,992 respondents had children who were of the age to use child care (less than 12 years of age) and were included in the current analyses. Among these, 2,071 individuals lived in households with working parents (both parents or only one parent in the case of single-parent homes). The unit of analysis for GSS is thus the parent (or household) and not the child.

The T1 Family File (T1FF) is an administrative data file constructed from personal tax files as well as the T4 annual employer records. The T1FF is constructed and maintained at Statistics Canada by the Income Statistics Division (ISD) for the purpose of estimating annual income among census families and individuals. T1FF years from 1982 to 2013 were linked to the 2011 GSS Families file, although for the current study, only the 2010 tax year was analysed as it aligned with the 12-month time frame for child care reporting in the GSS.

Measures

Descriptive characteristics. Socio-demographic characteristics of interest within the GSS-T1FF linked sample were: province of residence, marital status (single, married or common low, divorced or widowed), household income (less than \$30,000⁵, \$30,000-\$79,999, \$80,000-\$149,999, and \$150,000 or higher), education level (Bachelor's degree or higher, high school or less than Bachelor's degree, and less then secondary school), and whether or not the person had Indigenous identity or was a visible minority.

Employment characteristics for both the respondent and their spouse included whether or not their main activity was working or in school, whether or not they had a job last week, and the type of job (paid employee versus self-employed). Four types of work were created: regular (i.e.,

⁵ Sample size precluded a further breakdown of household income of less than \$30,000 per year.

not contractual or anticipated termination date), seasonal (employment is intermittent according to the seasons of the year), term (set termination date), or casual or on call. Information on the number of hours worked per week was classified as less than 10, 10 to less than 20, 20 to less than 30, and 30 or more. Full time work is generally considered 30 or more hours per week (Goldin & Mitchell, 2017). Finally, the work schedule was considered (i.e., a regular daytime schedule versus irregular including evening or night shift, rotating shift, and irregular schedule).

Child care. GSS respondents indicated whether or not they used any form of paid or unpaid child care and the total cost of care (per day, week, or month) for each child living in the household. Child care information based on a maximum of four children per household were considered in the current analyses because detailed child care information was not collected beyond four children (due to low frequencies). Summary variables were created to indicate whether or not the respondent had any children age 11 or less that had used child care in the past 12 months, and the total amount spent on child care. A variable was also created to identify cases in which there was at least one older child living in the household (age 12 to 18 years) who could potentially supervise and provide care for younger children if the parent(s) was not available.

Information from the 2010 tax year was also used to examine reported child care expenses. In the case of two parents, the person with the lower net income (including no income) is required to claim child care expenses unless they were a student (full time or part time) or were not capable of caring for children because of a mental or physical limitation or disability. In 2010, the maximum allowable expense was determined based on the child's age (born in 2004 or later, age 6 or younger the maximum was \$7000; born in 1994 to 2003, age 7 to 16, \$4000). For more information, see Form T778 (Canada Revenue Agency).

From the linked file, parent-reported costs for child care, amount claimed for child care from the administrative tax information, and total maximum allowable expense (based on the number of children in the household and child age) were calculated⁸. Variables were also created to compare the parent-reported and tax claimed amounts to determine whether the parent-reported and tax claimed child care costs were the same amount, or which amount was higher. To discount negligible differences in the amounts as well as differences in estimation due to summer holidays, breaks in care, etc., a marker was created to indicate cases in which the difference was greater than \$2,000. It was also of interest to examine characteristics of those parents who reported child care expenses but did not claim any expenses on their tax claim, and vice versa.

⁶ Information on type of care, location of care, and relationship between the child and the care provider was also collected. However, the current analyses combined across children to provide estimates for the parent respondent. It is possible for each child to be in a different type of care, rendering further analyses of these characteristics too complex for the present analysis.

⁷ In the case of a child who has qualified for a disability tax certificate, this amount is increased to \$10,000. Disability status was not accounted for in the current project since the information is not available on the T1FF file.

⁸ An examination of the characteristics of the sample in the GSS 2011 dataset compared to the GSS 2011-T1FF linked file is presented in Appendix A.

Analysis

Descriptive analyses (frequencies and means) were conducted to examine the sociodemographic and employment characteristics of respondents who reported using child care. Respondents with at least one child aged 11 and under were included in the analyses, although a subset of those with children aged 0 to 5 years was also examined separately. Chi-square tests were performed to indicate significant differences in these characteristics based on whether or not the respondent reported using any child care. Of particular interest were households where both parents were working but did not report using child care. Thus, a subset of dual parent or single parent working respondents were examined separately to more closely examine employment characteristics and child care information; this included single parents who were working as well as dual parents where both parents were working.

Child care costs were compared for both the survey-reported and tax variables. Pearson correlations between the reported and claimed amounts were calculated, as well as proportions to compare the absolute values of survey-reported and tax-claimed amounts. The mean values as well as maximum claim amount are also reported.

Finally, the socio-demographic and employment characteristics of respondents who reported child care costs, but did or did not make a tax claim, were also explored. Descriptive analyses were conducted, and a multiple logistic regression was performed in order to examine whether or not any of the univariate associations remained significant after accounting for all other variables.

Survey sampling weights specifically created for the linked GSS-T1FF file were applied in order to make the results representative of the Canadian population. Bootstrap weights were applied using SUDAAN 11.0.1 to account for under-estimation of standard errors due to the complex survey design.

Results

Characteristics of Child Care Users

In 2011, 54% of parents of children ages 0 to 11 reported that they had used child care for at least one child in the past year (59% of parents of children ages 0-5). As would be expected, some differences in child care participation were shown by province, with 67% (74%) of parents in Quebec reporting having used child care compared to 41% (50%) of parents in Manitoba (see Table 1). Those who were married or common law were less likely to use child care than those who were single or divorced/widowed. Higher education was associated with a greater likelihood of reporting having used child care. Individuals with an Indigenous identity or who were a visible minority were less likely to report using child care.

In terms of work characteristics, employed people, in particular paid workers and those who had a regular job, were more likely to use child care as compared to those who were self-employed and seasonal workers, respectively. Individuals who worked more than 30 hours per week (i.e., full time work) and who worked a regular schedule as compared to an irregular schedule such as shift work were slightly more likely to report using child care. A subsequent analysis

examined the work characteristics of male and female respondents separately. Male respondents were more likely to work or be at school, to be a paid or a self-employed worker, to work a regular or seasonal job, and to work full time compared to female respondents. Females were more likely to be at home or on parental leave, to work a term or on-call type job, and to work part time. However, interactions with gender for child care analyses were not conducted since child care is used by both parents (i.e., is a characteristic of the household), and analyses would reflect the sex of the respondent and not necessarily trends in use among males and females.

Limiting the analyses to only those households in which all parents were working, 67% used child care (76% if there was a child age 5 or less). Table 2 demonstrates differences in child care use among those with different work characteristics specifically for two-parent households where both parents were working as well as single working parents. Paid workers and regular workers were more likely to use child care, both for the individual and their spouse, compared to self-employed and seasonal workers. Again, hours worked per week did not have a substantial impact on the use of child care, although individuals working more than 30 hrs per week were the most likely to use child care. However, in households where there was an older child who was of age to watch their siblings (i.e., 12 years or older), 50% of parents reported using child care, as compared to 74% of parents that did not have an older sibling available for care.

Child Care Cost

Information on the cost of care can be compared between the amount reported on the GSS and the tax-reported information from the linked T1FF (see Figure 1 and Table 3). Among those who reported paying for child care, individuals reported on the GSS that they spent almost \$6700 per year on child care (just over \$7,500 when children were age 5 and under), although based on the maximum eligibility criteria, they were estimated to be eligible to claim an average of \$10,300 (\$12,000). Almost one quarter of respondents spent more than the maximum tax-eligible amount, suggesting that for these individuals, costs were higher than their eligible level of benefits (see Appendix for a breakdown by province). Further analyses suggested that individuals who reported more than the maximum tax-eligible amount were less likely to live in Quebec 11, Manitoba or Saskatchewan (compared to Ontario), were more likely to have a higher household income, and were more likely to have a greater number of children in the household 12.

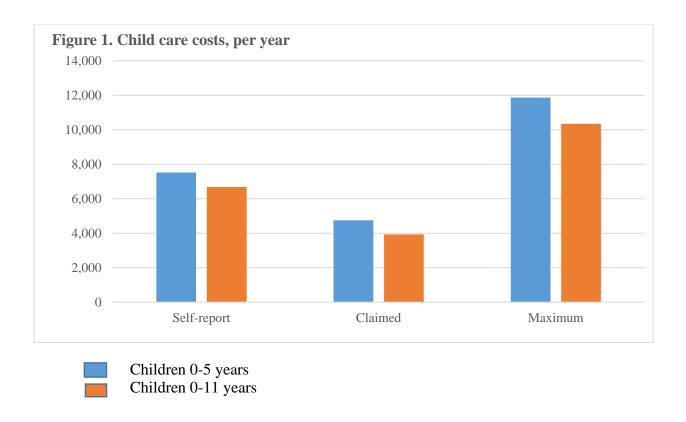
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⁹ In the case where children were under the age of 5, having a sibling in the household only made a slight difference in child care usage. Where there was no sibling, 76% of individuals reported using child care, as compared to 72% of parents of children under age 5 when there was a sibling over the age of 12.

¹⁰ A multivariate model was performed predicting survey-reported amount being greater than the maximum by province, income, marital status, grouped number of hours worked, and the number of children in the household.

¹¹ Some, but not all, families in Quebec may obtain child care through subsidized programming. Individuals are still eligible for federal (but not provincial) expense deductions.

¹² Maximum tax-eligible amount accounts for the number of children in the household.



Source: General Social Survey 2011-T1FF linked file, Statistics Canada

According to the tax files, on average, individuals claimed less than the mean eligibility limit at just over \$3,900 per year (\$4,700). Only 9% of individuals with at least one child aged 0-11 years claimed the exact eligible amount (also 9% among those with at least one child 0-5 years of age). Approximately one in four individuals with a child aged 0-11 years who reported child care costs on the GSS did not report any amount on their tax file; about four in ten who claimed child care on the tax file did not report any cost on the survey.

Comparing the values from the two sources of data (survey-reported and tax claimed amount), 71% of the time the survey amount was higher than the claimed amount, about 9% of the time the amount was the same, and 20% of the time the claimed amount was higher¹³. Four out of ten times, the difference between the survey-reported amount and the claimed amount was more than \$2000 per year. It is possible that individuals over-estimated the amount that they spend when they report costs on a survey as compared to when they file taxes (when they may be using a receipt to report the value of child care paid). Further analyses suggested that parents who reported the GSS amount based on a monthly amount (as opposed to amount per week or per year) were more likely to have a higher survey-reported cost of child care.

¹³ Zeros were excluded from the analysis.

Our final analysis examined differences in the socio-demographic or work characteristics of individuals who reported a cost of child care on the survey and did or did not make a tax claim ¹⁴. As shown in Table 4, individuals were more likely to report a tax claim if they were a male survey respondent (81% as compared to 73% of females). Individuals who were married or common-law were also more likely to make a tax claim, as were those with a higher level of education and higher income. Those with Indigenous identity or who were a visible minority were less likely to claim child care expenses on their tax return. In terms of work characteristics, paid workers were much more likely to make a tax claim that those who were self-employed (who were also shown to be less likely to use child care). More than four out of five (81%) of those with a regular schedule made a tax claim for child care expenses, as compared to three out of four (72%) of those with an irregular schedule such as working nights or rotating shift (who were also generally less likely to use care).

A multiple logistic regression that considered demographic and work characteristics simultaneously suggested that many of these variables were independently associated with not claiming child care expenses. Respondents who were female, with a lower education, lower income, with Indigenous identity, and who were self-employed were less likely to make a tax claim although they had reported child care expenses on the survey. In contrast, income, visible minority status, and work schedule were no longer significant once all factors were considered simultaneously.

Discussion

As part of our understanding on how families balance care for their young children and participation in the workforce, the objective of the current study was to examine the cost of child care using two sources of information – survey reported child care cost, and the amount reported on for tax expense deduction purposes. While not all women chose to return to the work force after having children, cost of child care is a particularly important issue for women who may negotiate employment based on child rearing decisions (Lefebvre & Merrigan, 2008; Fortin, 2017). This study does not consider the lower income of women or families who select to stay at home after the birth of a child based on preferences. However, it does explore the employment characteristics of women who are working and thus potentially need child care to care for the child while parents are unavailable for care. A unique aspect of this study was examining child care costs using both survey and administrative tax information. The final goal was to examine the demographic and work characteristics of individuals who reported child care costs on the survey but did not claim an expense deduction for those costs on their tax return.

According to data collected on the GSS in 2011, approximately half (54%) of parents of children ages 0 to 11 reported that they had used child care for at least one child in the past year (59% of parents with children ages 0 to 5 years). As expected, parents in Quebec were the most likely to report having used child care, as were individuals who were married or common law,

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¹⁴ Few differences were found in the characteristics of people who claimed child care expenses but did not report any child care cost on the survey.

with a higher education, and higher income. Previous studies have also suggested that uptake of child care is highest in Quebec compared to other provinces (Kohen et al., 2008; Fortin, 2017; Friendly et al., 2016) and that individuals with greater socio-economic means are more likely to need and use care (Petitclerc et al., 2017).

Turning to work characteristics, women were less likely to work, more likely to work an irregular schedule, and more likely to work part-time. In contrast, paid workers and those who had a regular job, compared to those who were self-employed and seasonal workers, were more likely to use child care, as were those who worked a regular schedule as compared to an irregular schedule such as shift work. From a gender-based perspective, it is possible that women in nonstandard work arrangements are those who are less likely to use care because of difficulties finding suitable child care. This aligns with information to suggest that it is difficult to obtain child care for shift or irregular work hours (Scotland et al., 2017). However, even in households in which parents were working more than 30 hours per week, about one third of respondents did not report using any child care. These parents were more likely to be self-employed and to work an irregular schedule, although it is also possible that they use other types of support (e.g., family care, multigenerational households). The results also suggest that working parents often rely on older siblings to care for their younger children since working parents were much less likely to report using child care if there was a sibling aged 12 and older to provide supervision at home. Again, this points to a need for flexible care arrangements that may be outside typical work hours or that can meet the needs of alternative work schedules that may not align with the standard work day/week.

A unique contribution of the current study is the ability to examine child care cost for families both from survey data as well as tax claim information. At the household level, survey respondents with at least one child age 11 and under reported spending approximately \$6,700 on child care in the past year (\$7,500 among those with at least one child age 5 and under). However, according to the tax files, these same households claimed approximately \$3,900 (\$4,700), a much lower value. At the individual level, 71% of survey respondents reported an amount that was higher than the tax claim, about 9% of the time the amount was the same, and 20% of the time the tax claimed amount was higher. Four out of ten times, the difference between the survey-reported amount and the claimed amount was more than \$2,000 per year.

These findings suggest that there is a fairly large discrepancy between survey-reported child care costs and those obtained through tax files, with the trend being for higher amounts from the survey-reported information. At this time, it is unclear as to the reasons for this discrepancy. Parents base their tax claims on a receipt provided by the child care provider(s), making is easier to report exact amounts, whereas survey information is more likely to be subject to bias or inaccurate reported amounts. While it would be to the individuals' advantage to claim the full value paid, it is also possible that parents do not include all expenses paid when completing their tax or survey information (e.g., expenses incurred for alternative care, summer camps, after school activities, irregular babysitters, etc.), or that some individuals use care and do not request or receive a receipt. It is also possible that parents overestimate the actual amount paid for care when reporting on a daily, weekly, or monthly basis, which could be further overestimated when extrapolating to an annual amount. This was supported by the subsequent analyses that those who reported monthly costs were more likely to overestimate reported versus claimed child care expenses compared to those who reported weekly expenses.

It could also be argued that obtaining child care costs from tax data are limited by the maximum amount that individuals can claim. Results from the current study would suggest that this does not explain the discrepancy. The theoretical maximum amount that each individual could claim was calculated based on the age and number of children in the household. From the survey data, only approximately one quarter of respondents reported spending more than the maximum amount that could be claimed. Interestingly, those individuals were more likely to have a higher household income (and thus have more disposable income to spend on child care). Overall, however, the mean child care cost was almost \$3,000 less than the mean maximum value eligible as an expense deduction.

Not all households reported both sources of child care costs – one quarter of those who reported child care costs on the survey did not claim any amount on their tax file and four in ten who claimed the expense deduction for child care did not report any cost on the survey. Our final objective was to explore the characteristics of individuals who reported child care costs and who did not make a tax claim in order to explore potential demographic or work characteristics that might help to explain why these individuals do not use the expense deduction for their child care expenses. Multivariate analyses suggested that individuals with a lower education, lower income, with Indigenous identity, and who were self-employed were less likely to make a tax claim despite reporting child care expenses on the GSS. It is possible that these individuals would not benefit from the child care expense deduction, for example, if their household income was lower than the base amount, or if their personal child care cost was relatively low and the claimed amount would not alter their tax owing (e.g., heavily subsidized care). These families may be more likely to use other types of care, for example, informal care by friends or family, or care arrangements that do not provide documentation necessary for tax purposes (e.g., receipts). Another possibility is that they are not aware of the child care expense deduction program, or that they are using child care subsidies which partially or fully covers the cost of care. Further research including qualitative studies may be necessary to examine why these individuals are less likely to be using the child care expense deduction program.

The current study is one of the first to explore the concordance between survey and tax-based child care costs, and is the most recent, nationally representative linked data available to address this question. However, several limitations should be acknowledged. As mentioned previously, self-reported data is subject to recall and reporting bias and may not provide an accurate estimate of costs incurred. However, tax-claimed amounts are also subject to reporting bias if individuals do not claim any amount, or do not fully report the amount paid for all child care expenses, or if those expenses exceed the maximum claimable amount. Tax claims must be made by the lower earning parent (including zero income). Furthermore, the focus of the GSS was on families, and not children, thus expenses (and the maximum claim amount) were combined for up to four children. More precise comparisons at the individual child level might reveal different findings. Also, GSS information reflects current child care situations, whereas tax data was for the preceding year. However, since the children were older and thus could have needed less care, this would suggest that the amount from tax data might be more, not less, than the survey value. It is possible that individuals are not currently using care (and thus have no cost), but did so in the previous year and thus have tax-eligible costs. Finally, given that the survey is cross-sectional in

nature, all associations between child care costs and demographic and work characteristics should be viewed as correlations and not causal.

Conclusions

Affordability of child care is of paramount importance for families, in particular mothers', ability to participate in the labour force. Recent announcements around funding for child care frameworks and programming have brought the cost of child care to the forefront. The current study explored both survey and tax-based child care costs, the results of which suggesting that individuals report higher child care costs on a survey than what they claim for an expense deduction. However, it is unclear which of these two sources accurately estimates costs, and thus it is unclear whether survey or tax data provides a better estimate of child care costs. Furthermore, the findings suggest that there are many people (23%) who report child care costs on a parentreported survey but do not claim any costs for an expense deduction and vice versa (42%). Individuals with a lower education, lower income, with Indigenous identity, and who were selfemployed were less likely to make a tax claim despite reporting child care expenses on a survey. This might suggest that there are particular groups that are less likely to benefit from child care tax programs, or are using care that does not provide tax receipts needed to make such a claim. It is also possible that their income is so low that claiming an expense deduction would not be of any benefit, and thus they do not report child care expenses. Many other aspects that relate to child care cost are of issue for future research, including the extent to which the cost of child care contributes to women's decisions to stay at home to raise young children versus going back to work, comparability of cost across provinces and internationally, and the role and use of subsidies to understand why certain groups may or may not report child care costs (either on a survey or for an expense deduction). Further examination of how to best measure and report child care costs, be that on a survey or through administrative data, is necessary. This is particularly of interest for certain subgroups of the populations (e.g., low income, Indigenous) for whom policies such as the expense deduction may be targeted.

References

- Cleveland, (2018). Affordable for all: Making licensed child care affordable in Ontario. Cleveland Consulting: University of Toronto.
- Ferns, C., & Friendly, M. (2014). *The state of early childhood education and care in Canada 2012*. Moving Childcare Forward Project (a joint initiative of the Childcare Resource and Research Unit, Centre for Work, Families and Well-Being at the University of Guelph, and the Department of Sociology at the University of Manitoba). Toronto: Movingchildcareforward.ca
- Friendly, M. Larsen, E., Feltham, L., Grady, B., Forer, B., & Jones, B. (2018). *Early childhood education and care in Canada*, 2016. Childcare Resource and Research Unit.
- Fortin, P. (2017). What Have Been the Effects of Quebec's Universal Childcare System on Women's Economic Security? Brief Submitted to the Standing Committee on the Status of Women (FEWO) of the House of Commons, Ottawa
- Goldin, C., & Mitchell, J. (2017). The new life cycle of women's employment: Disappearing humps, sagging middles, expanding tops. *Journal of Economic Perspectives*, 31 (1), 161-182.
- Lefebvre, P., & Merrigan, P. (2008). Child-care policy and the labor supply of mothers with young children: A natural experiment from Canada. *Journal of Labor Economics*, 26(3), 519-548.
- Lero, D. (2010). Canadian Data on Early Childhood Education and Care: Challenges and Opportunities. Unpublished paper.
- Kohen, D. E., Dahinten, V. S., Khan, S., & Hertzman, C. (2008). Child care in Quebec: A universal program. *Canadian Journal of Public Health*, 99(6), 451-455.
- Macdonald, D. & Friendly, M. (2014). The Parent Trap: Child care fees in Canada's big cities. Canadian Centre for Policy Alternatives.
- Macdonald, D. & Friendly, M. (2016). A growing concern: 2016 Child care fees in Canada's big cities. Canadian Centre for Policy Alternatives.
- OECD Directorate for Education. (2017). Early childhood education and child care policy. Canada: country note.
- Petitclerc, A., Côté, S., Doyle, O., Burchinal, M. Herba, C., Zachrisson, H.D.,...Raat, H. (2017). Who uses early childhood education and care services? Comparing socioeconomic selection across five western policy contexts. *International Journal of Child Care and Education Policy*, 11(3). DOI 10.1186/s40723-017-0028-8
- Scotland, P. (2017). A community survey of child care issues in Canadian shift workers: Evidence for barriers and opportunities. *International Journal of Child, Youth, and Family Studies*, 8(1), 42-73.
- Sinha, M. (2014). Child care in Canada. Statistics Canada Catalogue no. 89-652-X No. 005 Weeden, K. A., Cha, Y., & Buuca, M. (2016). Long work hours, part time work, and the trends in the gender gap in pay, the motherhood wage penalty, and the fatherhood wage premium.

Table 1. Proportion of Canadian parents living in the provinces who use child care

								Children	aged 0-5 o	nly	
								Weighted			
		N	Weighted N	%	LOWER	UPPER	N	N	%	LOWER	UPPER
Any child care		2228	3,038,585	54.1	53.8	54.5	1417	2,058,368	59.0	58.5	59.4
Province	Nfld/Lbd	121	43,648	59.8	58.4	61.2	73	26,371	63.8	61.8	65.7
	PEI	63	12,340	66.2	64.2	68.1	32	6,407	68.9	66.0	71.6
	Nova Scotia	103	71,049	57.2	55.5	58.8	58	43,356	61.1	58.9	63.2
	New Brunswick	115	69,279	61.2	59.6	62.9	70	46,308	64.1	62.1	66.1
	Quebec	471	845,462	66.9	66.1	67.6	318	590,981	74.1	73.2	75.0
	Ontario	596	1,120,897	51.4	50.8	52.0	373	751,690	56.7	55.8	57.5
	Manitoba	109	81,627	41.0	39.7	42.4	65	47,267	43.3	41.6	45.1
	Sask	128	92,799	56.2	54.8	57.6	84	63,273	59.5	57.8	61.3
	Alberta	304	330,708	45.9	45.1	46.7	207	237,366	49.5	48.5	50.6
	ВС	218	370,777	49.1	48.0	50.1	137	245,348	51.3	50.0	52.7
Marital status	Single	178	164,254	58.9	57.3	60.4	98	100,905	62.9	60.7	65.1
	Married or common law	1875	2,739,366	53.5	53.1	53.9	1254	1,903,325	58.4	57.9	58.9
	Divorced, widowed	175	134,964	62.2	60.7	63.7	65	54,138	75.7	73.2	78.0
Education	Bachelor or higher	847	1,169,143	59.0	58.4	59.6	569	825,390	64.7	63.9	65.5
	High school or less than										
	Bachelors	1276	1,717,730	54.0	53.5	54.5	785	1,137,270	58.6	57.9	59.2
	Less than secondary	95	136,816	33.9	32.7	35.2	55	82,846	33.6	31.9	35.4
Indigenous identity		85	84,726	43.3	41.4	45.2	51	54,067	44.0	41.6	46.4
Visible minority		280	464,487	39.9	39.1	40.7	194	336,969	44.4	43.4	45.5
Respondent main activity is	work or school	1821	2,475,153	59.8	59.4	60.3	1113	1,607,242	65.8	65.2	66.3
Respondent main activity is	child care	255	354,105	36.9	36.1	37.7					
Had a job or was self emplo	yed in the last week	1936	2,648,659	59.7	59.3	60.1	1205	1,752,475	65.6	65.1	66.1
Type of job	Paid worker	1782	2,414,349	60.2	59.8	60.6	1119	1,606,002	64.9	64.3	65.4
	Self-employed	290	407,866	50.1	49.1	51.0	182	281,211	59.0	57.7	60.3
Works at home at least som	e of the time	263	360,363	65.7	64.6	66.8	160	232,882	74.7	73.4	76.0

Regular	1594	2,176,451	61.0	60.6	61.5	989	1,430,003	65.6	65.0	66.2
Seasonal	36	36,777	39.9	37.3	42.5	26	27,062	51.1	47.5	54.8
Term	80	110,715	56.6	54.5	58.7	57	83,632	60.5	57.8	63.2
On call	72	90,034	56.6	54.5	58.7	46	63,832	64.7	62.1	67.2
Less than 10	36	48,508	50.0	47.4	52.6	25	34,329	57.1	54.0	60.1
10-less than 20	69	101,871	54.9	52.9	56.9	50	83,565	69.0	66.6	71.4
20-less than 30	130	159,516	53.1	51.7	54.5	77	96,019	57.5	55.5	59.4
More than 30	1775	2,439,276	60.0	59.6	60.4	1106	1,619,525	65.3	64.8	65.9
eek because of child care						-				
	110	150,363	50.0	48.4	51.5					
Regular	1503	2,058,256	60.1	59.7	60.6	945	1,376,465	66.3	65.7	66.9
Irregular (e.g., night shift, rotating shift)	519	704,114	56.1	55.3	56.9	321	466,771	60.7	59.7	61.7
•	Seasonal Term On call Less than 10 10-less than 20 20-less than 30 More than 30 reek because of child care Regular Irregular (e.g., night shift,	Seasonal 36 Term 80 On call 72 Less than 10 36 10-less than 20 69 20-less than 30 130 More than 30 1775 reek because of child care 110 Regular 1503 Irregular (e.g., night shift,	Seasonal 36 36,777 Term 80 110,715 On call 72 90,034 Less than 10 36 48,508 10-less than 20 69 101,871 20-less than 30 130 159,516 More than 30 1775 2,439,276 reek because of child care 110 150,363 Regular 1503 2,058,256 Irregular (e.g., night shift, 1503 2,058,256	Seasonal 36 36,777 39.9 Term 80 110,715 56.6 On call 72 90,034 56.6 Less than 10 36 48,508 50.0 10-less than 20 69 101,871 54.9 20-less than 30 130 159,516 53.1 More than 30 1775 2,439,276 60.0 reek because of child care 110 150,363 50.0 Regular 1503 2,058,256 60.1 Irregular (e.g., night shift,	Seasonal 36 36,777 39.9 37.3 Term 80 110,715 56.6 54.5 On call 72 90,034 56.6 54.5 Less than 10 36 48,508 50.0 47.4 10-less than 20 69 101,871 54.9 52.9 20-less than 30 130 159,516 53.1 51.7 More than 30 1775 2,439,276 60.0 59.6 reek because of child care 110 150,363 50.0 48.4 Regular 1503 2,058,256 60.1 59.7 Irregular (e.g., night shift,	Seasonal 36 36,777 39.9 37.3 42.5 Term 80 110,715 56.6 54.5 58.7 On call 72 90,034 56.6 54.5 58.7 Less than 10 36 48,508 50.0 47.4 52.6 10-less than 20 69 101,871 54.9 52.9 56.9 20-less than 30 130 159,516 53.1 51.7 54.5 More than 30 1775 2,439,276 60.0 59.6 60.4 reek because of child care 110 150,363 50.0 48.4 51.5 Regular 1503 2,058,256 60.1 59.7 60.6 Irregular (e.g., night shift, 1503 2,058,256 60.1 59.7 60.6	Seasonal 36 36,777 39.9 37.3 42.5 26 Term 80 110,715 56.6 54.5 58.7 57 On call 72 90,034 56.6 54.5 58.7 46 Less than 10 36 48,508 50.0 47.4 52.6 25 10-less than 20 69 101,871 54.9 52.9 56.9 50 20-less than 30 130 159,516 53.1 51.7 54.5 77 More than 30 1775 2,439,276 60.0 59.6 60.4 1106 reek because of child care 110 150,363 50.0 48.4 51.5 Regular 1503 2,058,256 60.1 59.7 60.6 945 Irregular (e.g., night shift, 1503 2,058,256 60.1 59.7 60.6 945	Seasonal 36 36,777 39.9 37.3 42.5 26 27,062 Term 80 110,715 56.6 54.5 58.7 57 83,632 On call 72 90,034 56.6 54.5 58.7 46 63,832 Less than 10 36 48,508 50.0 47.4 52.6 25 34,329 10-less than 20 69 101,871 54.9 52.9 56.9 50 83,565 20-less than 30 130 159,516 53.1 51.7 54.5 77 96,019 More than 30 1775 2,439,276 60.0 59.6 60.4 1106 1,619,525 reek because of child care 110 150,363 50.0 48.4 51.5 Regular 1503 2,058,256 60.1 59.7 60.6 945 1,376,465 Irregular (e.g., night shift,	Seasonal 36 36,777 39.9 37.3 42.5 26 27,062 51.1 Term 80 110,715 56.6 54.5 58.7 57 83,632 60.5 On call 72 90,034 56.6 54.5 58.7 46 63,832 64.7 Less than 10 36 48,508 50.0 47.4 52.6 25 34,329 57.1 10-less than 20 69 101,871 54.9 52.9 56.9 50 83,565 69.0 20-less than 30 130 159,516 53.1 51.7 54.5 77 96,019 57.5 More than 30 1775 2,439,276 60.0 59.6 60.4 1106 1,619,525 65.3 reek because of child care 110 150,363 50.0 48.4 51.5 Regular 1503 2,058,256 60.1 59.7 60.6 945 1,376,465 66.3 Irregular (e.g., night shift,	Seasonal 36 36,777 39.9 37.3 42.5 26 27,062 51.1 47.5 Term 80 110,715 56.6 54.5 58.7 57 83,632 60.5 57.8 On call 72 90,034 56.6 54.5 58.7 46 63,832 64.7 62.1 Less than 10 36 48,508 50.0 47.4 52.6 25 34,329 57.1 54.0 10-less than 20 69 101,871 54.9 52.9 56.9 50 83,565 69.0 66.6 20-less than 30 130 159,516 53.1 51.7 54.5 77 96,019 57.5 55.5 More than 30 1775 2,439,276 60.0 59.6 60.4 1106 1,619,525 65.3 64.8 reek because of child care 110 150,363 50.0 48.4 51.5 51.7 66.3 65.7 Irregular (e.g., night shift, 150

Source: General Social Survey 2011, T1FF linked file, Statistics Canada

Table 2. Proportion of Canadian parents living in the provinces who were working* and using child care

								Children aged 0-5 only						
								_		Weighted				
		N	Weighted N	%	LOWER	UPPER			N	N	%	LOWER	UPPER	
Any child care							χ^2	р	849	1,202,003.3	76.3	75.7	76.9	
Type of job	Paid worker	1257	1,701,456	69.9	69.4	70.5	266.2	<.001	744	1,045,424.0	77.9	77.2	78.6	
	Self-employed	180	244,349	54.3	53.0	55.5			105	156,579.3	67.1	65.5	68.7	
Type of work	Regular	1164	1,574,759	70.0	69.5	70.6	45.4	<.001	676	949,904.3	77.4	76.7	78.1	
	Seasonal	15	17,157	44.4	40.0	48.9			X					
	Term	50	73,978	78.5	76.2	80.6			38	55,452.7	85.1	82.5	87.3	
	On call	29	36,514	66.9	63.8	70.0			20	28,767.0	86.5	83.5	89.0	
Hours work per week	Less than 10						72.9	<.001	Х					
	10-less than 20	28	37,011	60.4	56.8	63.8			18	27,336.4	79.2	74.4	83.3	
	20-less than 30	78	97,025	55.3	53.5	57.1			47	58,134.6	67.4	64.8	69.8	
	More than 30	1310	1,783,219	68.4	67.9	68.9			771	1,099,366.7	76.6	76.0	77.3	
Schedule	Regular	1109	1,517,391	69.4	68.9	69.9	172	<.001	663	942,603.2	79.1	78.4	79.7	
	Irregular (e.g., night shift,													
	rotating shift)	329	429,367	61.3	60.2	62.4			187	260,352.6	67.7	66.3	69.1	
Spouse type of job	Paid worker	1162	1,603,226	69.6	69.1	70.1	153.2	<.001	708	1,005,780.7	77.4	76.7	78.1	
	Self-employed	164	238,421	58.5	57.3	59.8			98	145,078.0	71.2	69.6	72.8	
Spouse hours work per week	Less than 10						34.4	<.001	X					
	10-less than 20	24	37,330	53.6	49.7	57.4			16	25,695.3	63.3	57.6	68.6	
	20-less than 30	88	133,583	69.2	67.3	71.0			52	81,588.3	78.1	75.6	80.4	
	More than 30	1198	1,659,248	68.5	68.0	69.0			730	1,037,757.7	77.3	76.6	77.9	
Spouse schedule	Regular	1042	1,454,773	69.3	68.7	69.8	86.1	<.001	635	924,816.9	78.7	78.0	79.4	
	Irregular (e.g., night shift, rotating shift)	283	385,889	63.6	62.5	64.6			170	224,719.1	69.5	68.2	70.9	
Sibling of age for supervision in the														
home	No	1149	1,563,284	73.6	73.1	74.1	****	<.001	782	1,111,497.2	76.7	76.0	77.3	

	Yes	289	383,473	50.3	49.3	51.3			68	91,458.6	72.2	69.9	74.3
Mean number of weeks worked in													
the past year	No child care	628	934,621	49.1	49.0	49.3	-4.97	<.001	219	370,458.0	48.5	48.3	48.8
	Any child care	1433	1,940,629	49.5	49.5	49.6			848	1,200,261.6	49.0	48.9	49.1
Mean number of weeks spouse													
worked in the past year	No child care	581	867,412	48.6	48.4	48.7	-10.91	<.001	211	353,931.1	47.8	47.5	48.2
	Any child care	1318	1,838,283	49.7	49.6	49.8			803	1,149,417.5	49.3	49.2	49.4
Mean number of hours worked per													
week	No child care	628	934,207	41.3	41.0	41.6	7.93	<.001	219	371,595.6	40.9	40.6	41.2
	Any child care	1426	1,933,504	40.1	40.0	40.2			843	1,194,891.6	39.9	39.7	40.0
Mean number of hours spouse													
worked per week	No child care	574	859,738	40.3	40.0	40.5	4.44	<.001	206	345,698.1	39.2	38.8	39.6
	Any child care	1312	1,831,882	39.6	39.5	39.7			799	1,145,282.6	39.3	39.1	39.5

^{*}Sample includes two parent households where both parents are working, and single parents who are working Source: General Social Survey 2011, T1FF linked file, Statistics Canada

Table 3. Cost of child care for Canadian parents living in the provinces

			east one chi years or les		At least	one child 5 v	l 5 years or	
		r	Mean	%	r	Mean	%	
Correlation between self-reported and claimed amount		0.65			0.58			
Compare self-reported cost to claimed amount	Amount is same			9.4			8.9	
	Claim is higher			19.7			20.1	
	Self-report is higher			70.9			71.0	
% where the difference is > \$2000				42.2			44.8	
Child care cost, per year*	Self-report		6,676.49			7,521.29		
	Claimed		3,929.79			4,746.78		
Maximum allowable child care costs	Maximum		10,342.53			11,871.98		
Paid more than max amount	Self-report			22.7			23.7	
	Claimed						Х	
Self-report child care cost but did not claim any				23.4			21.9	
Claimed child care amount but did not self-report any amount				41.8			32.6	

^{*} among those that report or claim to pay for child care (i.e., > \$0)

Source: General Social Survey 2011, T1FF linked file, Statistics Canada

Note: The lower income parent (including zero) must claim the cc expense although there are

exceptions (including if parent is student)

Table 4. Description of Canadian parents living in the provinces who self-report child care based on whether or not they make a tax claim

			Those who do not make a tax claim					Those who do	make	a tax clair	κ claim					
		N	Weighted N	%	LOWER	UPPER	N	Weighted N	%	LOWER	UPPER	χ^2	р			
Sex	Female	231	286771	26.6	23.2	30.3	577	791797	73.4	69.7	76.8	6.6	<.05			
	Male	97	176171	19.5	16.0	23.6	433	725365	80.5	76.4	84.0					
Marital status	Single	41	39175	36.3	25.7	48.4	67	68799	63.7	51.6	74.3	4.9	<.01			
	Married or common law	249	395184	22.0	19.5	24.7	877	1399195	78.0	75.3	80.5					
	Divorced, widowed	38	28583	36.8	25.2	50.0	E 66	49168	63.2	50.0	74.8					
Household income (self-reported)	Less than \$30,000	58	62048	55.7	44.5	66.3	41	49418	44.3	33.7	55.5	13.0	<.001			
	\$30,000-\$79,999	116	159033	28.5	23.3	34.3	273	399194	71.5	65.7	76.7					
	\$80,000-\$149,999	86	129593	16.8	13.5	20.8	425	639985	83.2	79.2	86.5					
	\$150,000 or more	38	60078	16.3	11.4	22.6	E 190	309380	83.7	77.4	88.6					
Education	Bachelor or higher	92	129904	16.5	13.3	20.2	444	659270	83.5	79.8	86.7	12.2	<.001			
	High school or less than															
	Bachelors	209	290739	26.3	22.9	30.0	540	816070	73.7	70.0	77.1					
	Less than secondary	25	40898	50.2	34.7	65.6	24	40608	49.8	34.4	65.3					
Indigenous identity	No	299	432183	22.5	20.1	25.1	980	1488811	77.5	74.9	79.9	8.4	<.01			
	Yes	22	23130	55.1	37.4	71.6	22	18837	44.9	28.4	62.6	E				
Visible minority	No	265	363060	21.7	19.2	24.4	885	1311699	78.3	75.6	80.8	5.9	<.05			
	Yes	55	91982	32.1	24.9	40.3	117	194476	67.9	59.7	75.1					
Main activity is work or school	No	28	37970	24.5	16.6	34.6	E 71	117041	75.5	65.4	83.4		ns			
•	Yes	224	321055	19.4	16.9	22.2	902	1332545	80.6	77.8	83.1					
Type of job	Paid worker	220	308775	19.1	16.7	21.8	882	1305888	80.9	78.2	83.3	4.1	<.05			
	Self-employed	46	66023	28.4	20.8	37.4	103	166755	71.6	62.6	79.2					
Schedule	Regular	176	255849	18.0	15.5	20.8	782	1163965	82.0	79.2	84.5	6.6	<.05			
	Irregular (e.g., night shift, rotating shift)	76	103176	26.5	21.0	32.9	191	285621	73.5	67.1	79.0					

Spouse main activity is work or school	No	45	85286 36.5	27.2	46.9	81	148233	63.5	53.1	72.8	8.6	<.01
	Yes	223	322394 20.4	17.8	23.2	823	1259042	79.6	76.8	82.2		
Type of job	Paid worker	196	294079 20.1	17.5	23.0	772	1169422	79.9	77.0	82.5		ns
	Self-employed	42	64278 26.1	18.9	35.0	103	181672	73.9	65.0	81.1		
Spouse Schedule	Regular	155	238985 17.7	15.0	20.6	719	1114275	82.3	79.4	85.0	16.2	<.001
	Irregular (e.g., night shift,											
	rotating shift)	83	118519 33.5	27.1	40.7	155	234873	66.5	59.3	72.9		

^{*}Sample includes two parent households where both parents are working, and single parents who are working

Appendix A. Comparison of GSS 2011 with GSS 2011 linked to T1FF

		GS	SS T1FF (paren	ts with child	dren aged (0-11)	GSS	2011	L-T1FF (paren	ts with chi	ldren aged	0-11)
			Weighted						Weighted			
		N	N	%	LOWER	UPPER	N		N	%	LOWER	UPPER
Province	Nfld/Lbd	193	73,210	1.29	1.27	1.32	1	80	75,054	1.29	1.14	1.47
	PEI	96	18,639	0.33	0.32	0.34		92	21,013	0.36	0.31	0.43
	Nova Scotia	171	125,298	2.21	2.16	2.27	1	52	133,010	2.29	1.99	2.64
	New Brunswick	177	113,129	2.00	1.95	2.05	1	64	116,474	2.01	1.77	2.28
	Quebec	704	1,271,826	22.47	22.25	22.70	6	75	1,288,363	22.22	21.06	23.42
	Ontario	1109	2,201,733	38.90	38.62	39.18	10	32	2,249,390	38.79	37.33	40.27
	Manitoba	237	199,872	3.53	3.46	3.60	2	23	202,995	3.50	3.15	3.88
	Sask	229	165,545	2.92	2.86	2.99	2	10	169,527	2.92	2.61	3.28
	Alberta	651	730,801	12.91	12.76	13.07	6	17	757,758	13.07	12.29	13.88
	ВС	425	759,887	13.43	13.25	13.60	3	90	785,433	13.54	12.60	14.54
Marital status	Single	291	285,176	5.04	4.89	5.19	2	59	288,853	4.98	4.26	5.82
	Married or common law	3438	5,157,913	91.13	90.95	91.31	32	35	5,295,930	91.32	90.27	92.27
	Divorced, widowed	263	216,850	3.83	3.71	3.96	2	41	214,235	3.69	3.12	4.37
Education	Bachelor or higher	1387	1,997,323	35.60	35.26	35.95	12	97	2,044,375	35.51	33.75	37.31
	High school or less than											
	Bachelors	2297	3,197,394	56.99	56.63	57.36	21	59	3,288,937	57.13	55.30	58.94
	Less than secondary	281	415,389	7.40	7.21	7.60	2	58	423,590	7.36	6.37	8.48
Indigenous identity		184	204,605	3.65	3.53	3.78	1	68	206,064	3.59	2.95	4.35
Visible minority		652	1,173,009	20.98	20.66	21.30	5	93	1,170,362	20.43	18.86	22.09
Respondent main activity is	work or school	3075	4,387,332	77.56	77.27	77.84	28	71	4,482,281	77.34	75.81	78.81
Respondent main activity is	child care	717	967,582	17.11	16.87	17.35	6	86	1,016,593	17.54	16.23	18.94
Had a job or was self employ	yed in the last week	3133	4,471,407	79.03	78.74	79.32	29	40	4,589,351	79.17	77.56	80.69
Type of job	Paid worker	2848	4,042,415	83.06	82.77	83.35	26	75	4,154,633	83.19	81.65	84.62
	Self-employed	582	824,323	16.94	16.65	17.23	5-	42	839,760	16.81	15.38	18.35
Works at home at least some	Vorks at home at least some of the time		554,825	13.81	13.52	14.10	3	73	574,503	13.91	12.50	15.44

Type of work	Regular	2502	3,586,620	88.84	88.58	89.11	2360	3,703,821	89.28	87.76	90.62
	Seasonal	78	92,258	2.29	2.16	2.42	69	92,866	2.24	1.67	3.00
	Term	140	199,151	4.93	4.74	5.13	129	193,872	4.67	3.74	5.83
	On call	125	158,986	3.94	3.78	4.10	114	158,155	3.81	3.08	4.70
Hours work per week	Less than 10	75	97,029	2.07	1.97	2.18	73	103,473	2.15	1.65	2.80
	10-less than 20	126	186,962	3.99	3.84	4.15	122	199,092	4.14	3.34	5.11
	20-less than 30	241	302,338	6.45	6.27	6.64	226	302,395	6.28	5.47	7.20
	More than 30	2847	4,097,944	87.48	87.23	87.73	2669	4,208,043	87.43	86.12	88.63
Worked less than 30 hrs per w	veek because of child care										
responsibilities		218	302,579	51.73	50.68	52.78	208	311,832	51.67	45.85	57.44
Schedule	Regular	2414	3,445,917	73.13	72.78	73.47	2274	3,556,126	73.53	71.61	75.36
	Irregular (e.g., night shift, rotating shift)	901	1,266,378	26.87	26.53	27.22	836	1,280,128	26.47	24.64	28.39

Source: General Social Survey 2011 - T1FF, Statistics Canada