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Luxembourg Income Study Working Paper Series

Working Paper No. 377

Female Income Differentials and Social Benefits:
A Four Country Comparison

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Female Income Differentials and Social Benefits: A Four Country Comparison

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This version May, 2004

Abstract: Past literature on the family gap--the difference in outcomes for mothers and women without children--discusses inequality in wages and employment. This study examines family gaps in the economic well-being of households, and analyzes the extent to which they are reduced by the availability of social benefits. Preliminary results, using the Luxembourg Income Study, indicate that the generosity of the social protection system accounts for the size of the family gap, particularly in countries with sizeable income differentials. In countries with the most generous systems, family gaps for the lower half of the income distribution are, to begin with, very small. The inequality analysis finds that earnings have a significant role in determining overall inequality due to their large share in total income. Benefits have a redistributive effect in all countries, with the magnitude of this effect depending on the generosity of benefits relative to income.

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1. Introduction

The degree of public support toward families affects individual labor market decisions. The extent to which related measures influence individual behavior varies across families and across countries. Government involvement in creating employment-oriented policies aimed at reducing poverty, inequality and exclusion depends on national policy attitudes, attitudes that dictate the level of generosity of the welfare state. As a result, the role of the government in creating social support also differs across countries.

In this study, the impact of social benefits in improving welfare is examined in a multi-country context. The family gap in labor market outcomes, defined as the difference in the outcomes for women without children and for mothers, has been explored to a certain extent. The past literature discusses the size of family gaps in wages and employment, but does not refer to the actual well-being of the family units. Male income is most commonly not included in the model. Wages may indicate the returns to education, but income is an indicator of the amount of monetary resources that are available for consumption by family members. As a result family income is often considered one of the better, but not ideal overall measures of economic well-being. This study looks at the differences in well-being, as measured by family gaps in income and examines the extent to which the gap is reduced by the availability of social benefits across countries. The redistributive impact of benefits is also examined.

This analysis contributes to the literature by focusing on "family income gaps" and by determining the potential differences in the well-being between families with children and those without separately by marital status allowing for the inclusion of male income. As the proportion of married couples with children has been falling and the number of single-mother families has been increasing, this work seeks to discern the role of the generosity of the state in determining such differences. The analysis is focused on traditionally different welfare regimes²: France, Poland, Sweden, and the United States.

This study finds that the generosity of the social protection system has explanatory power in accounting for the size of the family gap, i.e. it reduces the effect of childbearing on income, especially in countries with sizeable income differentials. In countries with the most generous systems, family gaps for the lower half of the income distribution are, to

² See Sierminska (2003) for details on family policies in these countries.

begin with, very small. The inequality analysis (See Sierminska (2003).) finds that earnings have a significant role in determining overall inequality due to their large share in total income. Benefits have an equalizing effect in all countries, but the magnitude of this effect depends on the generosity of benefits relative to income.

Subsequent sections contain an overview of previous research on the family gap, the model framework, methodology, and data. Section 4 discusses the empirical results, followed by conclusions. The Appendix discusses trends in female participation in the labor force over the past two decades.

2. Prior Research on the Family Gap

In a 1999 study, Harkness and Waldfogel perform a cross-country comparison of family gaps and find differences in the effect of children on women's employment and hourly wages, even after controlling for age, education, etc. The gap is greatest in the United Kingdom (where mothers work in low paying part-time jobs), followed by the other Anglo-Saxon countries (Australia, Canada, and the United States), then Germany. The gap is smallest for the Nordic countries (Finland and Sweden). For full-time workers, children have a negative effect in all countries, but the effect is smallest in the US and the UK, and is comparable to that in the Nordic countries. The authors also find a positive relationship between the family gap and the gender gap across countries. A family gap in pay exists in the US and in the UK, but not in the other countries. In these two countries, the family gap is most likely explained by steep penalties for part-time work (Bardasi and Gornick (2000)), as many mothers work only about ten hours a week. The authors do not find a clear positive relationship, however, between the family gap in pay and the family gap in employment. Using Heckman's sample selection correction model they do not find a differential selection for women with respect to employment (i.e. that mothers with low earnings potential are more likely to work), with the exception of the US. There, both negative employment and the wage effects of children exist. When calculating family gaps, the authors do not distinguish between married mothers and single mothers. Correspondingly, they do not find a big effect of marriage on employment³.

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³ A comparison of employment over the years has shown, for some countries, a decreasing, yet still substantial effect of marriage on employment over time. The effect varies with the age of child in the household. For details, see Table A.3.4 and A.3.5.

Examining policies in the United States, Waldfogel (1998a) finds that, while the US has done fairly well with respect to equal pay and equal opportunity policies, on the international arena, it is well behind most other countries in family policy—for example, in the provision of leave and child care. It is the only country without provisions for paid leave; further, it has one of the highest out-of-pocket costs for child-care relative to women's earnings. As a result, even though the gender gap has been decreasing over the past decades, the family gap in pay has been increasing. Maternity leave may reduce the family gap by raising women's retention rates and increasing their levels of work experience and job tenure, which in turn should raise their wages.

Looking at data for Britain, Joshi, Paci, and Waldfogel (1999) find that childless women have higher earnings and demonstrate a higher propensity for working full-time. Meanwhile, mothers tend to be concentrated in part-time jobs, which carry a high wage penalty. Such pay penalties, associated with part-time work and lost work experience, have increased over time. The authors find little evidence that children have a negative effect on pay once allowance is made for human capital and sectors of employment; further, that mothers with a continuous employment history do better than those that return to work after a break.

By exploring the effect of maternity on wages, Waldfogel (1998b) finds that women who have leave coverage and return to work receive a wage premium that offsets the negative effects that children have on wages. A low level of work experience explains some of the wage differences between mothers and non-mothers, but the significant direct effect of children remains unexplained. The author also finds that the difference between mothers and non-mothers is more a factor of slower wage growth than pre-existing differences in base wages. The author does not find any unobserved heterogeneity bias or omitted human capital that might even in part explain family gaps.

3. Methodology, Model and Data

Unlike prior studies that have attempted to identify the reasons for the existence of family gaps in earnings and employment rates, this study focuses on the family gap from the point of view of welfare. Women, both with and without children, are treated as family units, and income differentials between these two family types are examined. Some may argue that a family gap defined on the basis of hourly wages is not as severe as one based on disposable

income. Wages indicate returns to education, while income represents the total amount of resources available for consumption by family members. For this reason, income is often considered to be the "least worst" measure of economic well-being⁴.

An examination of income-gaps allows us to determine the effect of children on the well being of their respective family units. In this study, the economic well-being of a family may be affected by the presence of children in two ways. First, there could be a wage or "employer effect" in the form of lower wages for mothers;⁵ this has a negative impact on the economic well being of the family unit. Second, in many countries, the presence of children results in their respective family units receiving benefits payments. This constitutes a positive influence on the family units' well-being. As such, it is an indication of the governments' role in society.

In line with this rationale, let the household's maximization problem be given by:

U(C, L, K) subject to

$$P_{c}C + P_{K}K = W(K)H(K) + B(K) + \overline{B}$$
(1)

$$H(K) + L + M(K) = T \tag{2}$$

where C is consumption, L is leisure, and K is the number of children. Equation (1) is the budget constraint, where $P_c = 1$ is the price of the consumption bundle, P_K is the price or opportunity cost of having children, W(K) is the wage rate, H(K) denotes hours worked, B(K) denotes child dependent benefits, and \overline{B} denotes other benefits and nonlabor income. Equation (2) is the time constraint, where the total time available, T, can be divided into the number of hours worked, leisure and non-market work dependent on the number of children-M(K).

More formally, we have

 $\frac{\partial W(K)}{\partial K} \le 0$, indicating that having children may have a negative effect on the wage rate;

⁴ For a discussion of this issue, see Canberra(2001).

⁵ Resulting, for example, from employer discrimination.

 $\frac{\partial B(K)}{\partial K} \ge 0$, indicating that benefit payments are an increasing function of the number of

children; and $\frac{\partial M(K)}{\partial K} > 0$, M(0) = 0, indicating that non-market work increases with the

number of children. Additionally, $\frac{\partial H(K)}{\partial K} \leq 0$.

Since Full income=
$$F = W(K)T + B(K) + \overline{B} = C + P_K K + W(K)[L + M(K)],$$
 (3)

the income (Y) constraint becomes

$$Y = W(K)[T - L - M(K)] + B(K) + \overline{B} = W(K)H(K) + B(K) + \overline{B} = C + P_K K.$$

$$\tag{4}$$

Maximizing the utility subject to equation (4) yields the demand function for hours worked or

labor supply
$$H = f[W(K), B(K), \overline{B}, P_K, M(K)]$$
. (5)

From equation (4), we get
$$\frac{\partial Y(K)}{\partial K} = H \frac{\partial W(K)}{\partial K} + W \frac{\partial H(K)}{\partial K} + \frac{\partial B(K)}{\partial K}$$
. (6)

Two cases can be distinguished: (1) $\frac{\partial W(K)}{\partial K} = 0$ and (2) $\frac{\partial W(K)}{\partial K} < 0$.

For case (1), an employer-wage effect exists. As a result,
$$\frac{\partial Y(K)}{\partial K} > 0 \Leftrightarrow \frac{\partial B(K)}{\partial K} > W \frac{\partial H(K)}{\partial K}$$
.

This is likely the case for countries with generous child benefits, and where similar employment patterns exist for mothers and non-mothers.

For case (2),
$$\frac{\partial Y(K)}{\partial K} > 0 \Leftrightarrow \frac{\partial B(K)}{\partial K} > H \frac{\partial W(K)}{\partial K} + W \frac{\partial H(K)}{\partial K}$$
. Improvement in the well-

being of the family is more difficult to accomplish in this case, as the benefits effect needs to compensate for the wage effect as well as the hourly effect.

To see this clearly, let us assume two possibilities: one with children (K=1) and one without (K=0). Thus,

 $Y(1) = W(1)H(1) + B(1) + \overline{B}$ and $Y(0) = W(0)H(0) + \overline{B}$. The difference is the family income

$$gap Y(1) - Y(0) = W(1)H(1) - W(0)H(0) + B(1).$$
(7)

Equation (7) can be expanded into
$$Y(1) - Y(0) = \mathbf{a} + \mathbf{b} + \mathbf{g} + B(1)$$
, where (8)

a = W(0)[H(1) - H(0)] is the hourly effect;⁶

 $\mathbf{b} = H(0)[W(1) - W(0)]$ is the wage effect;⁷

⁶ a<0, since H(1)-H(0)=-M(1)<0.

g = [W(1) - W(0)][H(1) - H(0)] is the interaction of the wage and hourly effect,⁸ and B(1) is the benefit effect. The goal of this paper is to analyze the net effect Y(1) - Y(0) in order to determine the level of government involvement in determining income differentials between mothers and women without children; moreover, to explore to what extent government responsibility for women's childbearing differs across countries and across the income distribution within each country. It also examines the extent to which government's generosity may explain the size of the family gap.

Data

The data comes from the Luxembourg Income Study (LIS)⁹. LIS is a micro-dataset archive gathered from a large range of industrialized countries. It contains demographic, labor market and income data (earned and unearned), both at the household and individual level. The data is rendered comparable, and is available to researchers worldwide through remote access. At the household level, the LIS includes such variables as child or family allowances, maternity allowances (including pay replacement and birth premiums), and other means-tested cash benefits. Cash transfer variables for the most recent group of chosen countries are presented in Table 1. This study is most interested in family-supporting payments, such as child or family allowances, maternity pay, and means-tested cash benefits, among others. Datasets for each country and each year include a LISsification table. These present a translation of the original dataset file into the LIS data, thus allowing comparability across countries. The definition of transfer variables for the group of countries of interest in the most recent wave can be found in Table 2. The LIS makes every effort to make measures of income as comparable as possible across countries. If there is any doubt about comparability, it should be pointed out that it is only the relative well-being of mothers and women without children that is being analyzed. By looking at the effect of children on income differences across countries other common effects are netted out.

 $^{^{7}}$ β=0 or β<0.

⁸? indicates whether the contribution of the wage effect depends on the level of the hourly effect or vice versa.

⁹ Remote access is available through http://www.lisproject.org.

Variable of Interest

In this study, the economic welfare of the family is measured by disposable personal income (DPI). The goal of the Luxembourg Income Study (LIS) is to define this variable consistently across all countries. DPI is defined as gross income minus taxes and mandatory contributions (in the United States). Near cash benefits are included and comprised of all forms of transfers that are in a strict sense, in-kind payments (i.e., they are tied to a specific requirement such as school attendance), but have a cash equivalent value equal or nearly equal to the market value, including near cash housing benefits. In-kind earnings are not included in the DPI. These would include home production or in-kind income as a substitute for income, and would only be food commodities, homegrown food, board, or housing received as pay. DPI in LIS does not include employer luncheon vouchers, education vouchers, medical benefits, etc. as these are counted as voluntary supplements to cash wages. By measuring the resource flow in money that increases the recipient's potential to consume or save, income is a good proxy for individual economic welfare. It should be noted that this study looks exclusively at the material well-being of families, acknowledging at the same time that family well-being is a multidimensional concept influenced not only by the economic position, but also by the social, political, physical, emotional and psychological status of the family. 10

Unit of Analysis

The unit of analysis is the individual although income and transfers are measured at the household level. The study focuses on females aged 25-44. This age frame is chosen to accentuate the childbearing age for females in independent households. Individuals working full-time, full-year are defined as working more than 47 weeks full-time during the past 12 months¹¹.

Equivalence Scales

To focus on the well-being of the family, incomes must be deflated to account for the size of the family. This is accomplished by using equivalence scales. Equivalence scales measure the relative cost of living of families of different sizes and composition that are

¹⁰ For more on the topic see Sen (1987)

¹¹ For France, Sweden and the US: PWEEKFT > 47. For Poland: the individual must not be a part-time employee, must be employed, number of weeks unemployed must be less than 5 and must have worked at least 35 hours per week.

otherwise similar. They deflate income by a score of less than one for each extra member since households are economies of scale in the provision of some goods like heating and electricity. This study employs the scale ($\sqrt{\text{number of adults} + \text{number of children}}$). This scale does not distinguish between child and adult consumption-both are treated equally. This study considers single-family or married households with the same number of adults, as a result the economies of scale root rule will pick up the distinction between adults and children for families that contain a larger proportion of children¹² in which case the scale is suitable for the purpose of this study.

Countries of Interest

In many developed countries the government plays an active role in helping balance work and family responsibilities by providing public or financing day care, having mandated parental leave, and providing cash payments for families with children.¹³ In this study I compare the role of the government and its effect on the family gap in four countries: France, Poland, Sweden, and the United States.

According to Gornick, Meyers, and Ross (1996), ranking of countries by governments' generosity in providing policies supporting the employment of mothers, France and Sweden stand at the top of the list of countries and the United States is last. Poland is not included in the ranking, but as a state in transition is also of interest. The transition in terms of social policy has been a move from more equality to more efficiency and there has been a strong drift toward reliance on means-tested social assistance-more common in the 'liberal'-Anglo-Saxon welfare states.

Methods

The family gap of women is explored with respect to the female income distribution. First, the overall income gap is observed. Gaps within the deciles of the distribution are then

¹² See Ruggles (1990). For a discussion on equivalence scales see Citro and Michael, ed. (1995).

¹³ There is an on going debate on how the costs of raising children should be shared between parents, the government and employers. See Fuchs (1996) for a discussion.

¹⁴In the United States it was not until 1993 that the Family and Medical Leave Act was passed mandating firms to provide *unpaid* family leave. Most countries had been providing *paid* leave for some time. The US subsidizes child-care for poor families and provides tax deductions for others, but it does not provide child-care unlike many European countries. The US can be seen as a control group with minimal benefits.

specified. The extent to which benefits components explain the sizes of family gaps is also examined. Standard statistical methods are used to compare income distributions. The earnings and income gap is compared for mothers and women without children i.e the pre-transfer and post-transfer levels of available income are explored in order to compare the effect of social benefits across units and countries. The gap is also analyzed adjusting for demographic characteristics.

Comparing married women outcomes with those of single women is not appropriate, since equivalized incomes of married women take into account the earnings of husbands. In this study, the goal is to analyze the effect of childbearing on income, and the role of the structure of social benefits and transfers in making resources more available to women with children. As a result, the analysis focuses on the comparison of mothers and women without children on the basis of marital status. The difference in access to economic resources is explored in four population groups: married women without children, married women with children, single women without children and single-mothers. This division allows for a determination of the size of the family gap, or, in others words, the effect of children and social benefits within a country on the well-being of women in different family structures net of other effects.

4. Empirical Analysis

Income Distribution

The income distribution of women is examined across countries and the relative well-being of those with and without children is compared. The cumulative distribution indicates that overall, women without children and married women are better off in all countries past the fifth percentile (See Figure 3.1).¹⁵ The distribution is scaled to highlight the bottom of the distribution. For example, in France, 30 percent of the highest income is enjoyed by 90 percent of married childless women, 85 percent of married mothers, 80 percent of single women, and only 50 percent of single-mothers. This compares to 80 percent, 60 percent, 70 percent and 40 percent respectively in Poland; 98 percent, 97 percent, 90 percent and 90 percent respectively in Sweden; and 80 percent, 60 percent, 63 percent and 25 percent respectively in the United States. Below the fifth percentile, differences across countries are observed. In France and Sweden, single mothers are better off than single women. Married mothers are as well off as

¹⁵ Results are similar for full-time, full-year workers, see Figure 3.2.

those without children at the bottom of the distribution in France, but not in Sweden. In Poland and the United States, women without children are better off than those with children.

Family Gap and Absolute Differences

The family gap--an indicator of the effect of children on income ¹⁶--expresses these differences in relative terms (See Figure 3.3). Absolute differences of income between childless women and women with children can be found in the Appendix (See Appendix A.3.1). In Poland, women with children at the bottom of the income distribution are worse off than those without children, but the difference in absolute terms is the same among married and single women This is not the case in relative terms; the family gap is larger for single women relative to their married counterparts, indicating that throughout the distribution (except at the 20th percentile), the gap in income between women without children and those with children is greater for women that are not married. The absolute gap increases as we move up the population share, and the relative gap is fairly constant except for the initial decline for single women at the bottom of the income distribution.

In the United States, women at the bottom of the income distribution are worse off if they have children. The absolute gap increases as we move up the distribution. In relative terms (See Figure 3.3.4), children have a larger negative effect for single-mothers than married ones. This is most likely the effect of husbands' earnings. The family gap increases for single mothers as we move along the distribution for single females, and then slightly falls after the 25th percentile. For married women the effect also increases up to the 25th percentile, but then remains stable.

In France, the absolute difference in the well-being of women steadily increases for both single and married women towards the top of the distribution. In relative terms (See Figure 3.3.1) the indicator for the effect of children is less than one for single women at the bottom of the income distribution, and increases to 1.85 towards the top of the distribution. For married women it begins at around 1, increases to 1.25 towards the middle of the married population, and then slightly declines at the top of the distribution.

In Sweden the absolute difference in the well-being of females is small for single women and is steadily increasing across the distribution for married women. The family gap is

¹⁶ This indicator measures the income ratio of women without children and mothers at each percentile of the income distribution. If it is greater than one, it indicates that children have a diminishing/negative effect on income.

larger for married than for single women (See Figure 3.3.3). For married women, the negative effect of children is very small at the bottom of the income distribution and remains stable along the rest of distribution (at around 1.30). For single women, the negative effect of children is almost non-existent, and only appears for the top ten of the distribution.

The effect of children across countries is compared in Figure 3.4.1 and 3.4.2. The disparity along the distribution is larger for single women than for married women. The highest negative effect among single women is in the United States. There is no negative effect of children in France and Sweden for women at the bottom of the income distribution. Moving along the distribution, the negative effect steadily increases in both countries, though it is larger in France. In almost all countries, there is a steep increase in the family gap at the bottom of the distribution. In Poland, the opposite is true; the effect remains roughly constant throughout the distribution, though becoming slightly higher at the top and bottom of the distribution.

The increase in the family gap as we move up the income distribution must be the result of a relatively greater increase in the returns to education (i.e., in the form of higher wages) for women without children, and of a decline in the share of benefits with greater income.

The effect of children on the well-being of families is summarized in Table 3. For single women the effect ranges from .15 to 2.22. For married women, it ranges from 1 to 1.5; it is largest in the US for the top 80 percent of the distribution, but for the bottom 20 percent the negative effect is greatest in Poland. In France there is no negative effect of children for the bottom 5 percent of the income distribution and there is a very small average effect in Sweden for the whole distribution. The most stable effect seems to be in Poland.

The family gap is less dispersed for married women, which may result from a tightening effect caused by husband's incomes. In the end, having children is costly and this can only be viewed as a problem once the relative costs of children become so high that married couples not only postpone, but forego childbearing altogether as is the case, for example in Japan (Retherford et al. (2001)).

Full-Time Full-Year Workers

It may be argued that the family gap exists because women with children tend to be more prevalent in part-time jobs, which have been shown to exhibit a penalty and to provide on average fewer work hours. In order to circumvent this factor, the analysis has further focused only on individuals working full-time, full-year. As can be seen from Figure 3.5 and the bottom portion of Table 3 this has a tightening effect on the gaps throughout the distribution, the exception of single women in Poland, and married women in Sweden. The family gap for single women has the same pattern in all countries once the case study is focused on full-time, full-year workers only. The smallest gap is found at the bottom of the income distribution, with a steep increase from the first to the fifth percentile. Little variation is observed higher up in the distribution though, there is an increase towards the top one percentile. The steep increase at the bottom of the distribution is relatively smaller in countries with means-tested benefits and in countries with an average higher gap than in those that provide universal benefits. The family gap is almost nonexistent in Sweden. France has a considerably higher family gap, but it is very small for women at the bottom of the distribution. Married women exhibit bigger gaps that are generally less dispersed.

In summary, variations in the relative well-being of families with and without children, across countries and throughout the distribution are the result of the combination of the wage penalties connected with having children; the number of hours worked (for those working part-time); and the generosity of the welfare state. In some countries, the government's generosity completely alleviates the negative effect of having children for relatively poorer individuals.

Controlling for Different Characteristics

It may be the case that mothers have different characteristics than women without children, and income differences may only be due to difference in age, education, and other factors that affect income. Ideally, the goal is to find out whether two identical women in terms of sociodemographic traits have different incomes solely because one has children and the other does not. To control for these characteristics, regressions with income as the dependent variable and sociodemographic traits as independent variables are estimated. The residuals from these regressions are then differenced. This leads to the ratio of the actual family gap and the estimated family gap. Thus,

$$\hat{e}_N - \hat{e}_C = (y_N - y_C) - (\hat{y}_N - \hat{y}_C) = \ln \frac{I_N}{I_C} - \ln \frac{\hat{I}_N}{\hat{I}_C} = \ln \frac{gap}{\hat{g}ap}$$
, where e indicates the residual,

^-denotes an estimated value, N-no children, C-with children, $y = \ln(income)$ and $gap = \frac{income_N}{income_C}.$

The results from these regressions are in Table 4. The effects on income differ within and between countries. For example, age has a positive and significant effect on income in all countries except Poland, regardless of marital status and the presence of children. Education hast the strongest effect in France and the weakest in Sweden. Living in an urban area has a greater effect on women without children and married women. It is not a significant determinant of income in Sweden¹⁷ and for single women in France and Poland. The presence of children has a negative effect on income in all countries, but in all countries with means tested benefits the presence of very young children does not have a significant effect (for example, Poland and the USA). For married women being an immigrant has a significant negative effect on income. The effect diminishes for single women in the USA and is insignificant in France and Sweden. In the USA, race has a bigger effect on income for married rather than single women. Being Hispanic has a greater effect for mothers and being black has a greater effect on income for women without children.

The actual gap (gap) and the gap versus the estimated gap ($\frac{gap}{a}$) is presented in

Figure 3.11. Two things need to be pointed out. First, a ratio of gaps greater than one indicates that a smaller gap actually exists than is predicted by the model. This indicates that factors other than the presence of children—fewer hours worked or employment in lower paying jobs for example--are affecting income. For all countries, with the exception of the United States, the estimated gap is greater than the actual gap at the bottom of the income distribution. The actual gap is smaller due to benefits. Second, gap ratios smaller than the gap indicate that the model predicts the existence of income differentials(gap > 1). This is true for France, Poland, and to a lesser extent, Sweden. This is not the case towards the

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¹⁷ Note the definitional differences for Sweden.

bottom of the income distribution in the United States, something that may be explained by the heterogeneity of the population in this country.

Figure 3.12 looks separately at the regression residuals for single women without children and single-mothers. The results reinforce those from the previous figure, though in greater detail. A negative residual indicates that the actual income is smaller than the predicted income; a positive residual indicates the opposite. The same overall pattern is observed in Poland, France and Sweden. At the bottom of the income distribution, actual income is, on average, smaller than predicted by the model for both types of women until

the 50th percentile. For the lowest part of the income distribution, $|\hat{e}_N| > |\hat{e}_C|$, implying that the model is a better predictor for single mothers than single women without children. The fit can be improved, as family benefits are very generous at the bottom of the distribution.

 $|\hat{e}_N| > |\hat{e}_C|$ also implies that the actual gap is overestimated--($\hat{gap} > gap$). A lack of benefits would increase the gap.

Overall, the bottom of the distribution exhibits a children-based effect on income ratios and the generosity of benefits alleviates the family gap with respect to income. For the rest of the income distribution, other forces affect income disparities, and the actual gap is greater than that predicted by the model. This is the case in Poland, France, and to a certain extent, Sweden. In Sweden, $gap \approx gap$, and the actual gap is due to the effect of children, with the exception of the bottom of the income distribution, where gap > gap on account of the level of high benefits. The United States appears to be somewhat different. At the bottom of the income distribution, actual income is lower than predicted income, but more so for single mothers than for childless single women. Throughout the distribution, gap < gap, suggesting that other forces are at work besides the effect of children on the income differentials.

Family gap and the employment gap

A popular argument claims the family gap does not translate to a lower well-being of females with children in terms of their utility since less hours of work may not directly translate into more nonmarket hours of work, but instead into more leisure. In this scenario,

in the absence of generous benefit payments, a large family gap resulting from fewer hours worked and less income will coincide with a large employment gap or low employment for women with children, but not a larger utility gap. To verify this argument average employment and employment gaps are compared in these four countries. The results in Table 5 indicate that there is very small correlation among countries between the ranking of the employment gap and the family income gap. There is a small employment gap and family income gap in Sweden, but the same does not hold true in countries with big family income gaps. In a country with a high family income gap and low income for mothers, such as the United States, single-mothers have a high rate of employment. In Sweden, a small family income gap and a relatively high level of employment among single-mothers is observed. In Poland, the family income gap is not large and there are relatively low employment rates among mothers, but there are safety nets provided for those at the bottom of the distribution. The utility argument seems to have more empirical proof for married women in terms of employment gaps. For this group, a high family income gap accompanies a high employment gap in the United States. In countries with more generous benefits this does not hold as well.

In summary, the argument that a fall in income is compensated for by a rise in leisure for women with children could possibly hold for married women in countries with low-benefit payments. Among single women, I find that this argument is not true unless some type of minimal safety net is provided.

The Family Gap and Social Benefits

Next, the benefit structure and the effect of benefits across the income distribution are examined. To what extent is the family gap closed by benefits? This is an important question. If the aim is to keep women attached to the labor market and above the poverty level, the gap needs to be closed, and benefit payments may play an important role in accomplishing this goal. Previous studies have shown that benefit generosity is accompanied by smaller employment family gaps. (The gender gap has been falling and the family gap has been increasing in employment rates as well as wage rates, but in both cases remains the smallest in countries with the most generous benefit systems.) Figure 3.6 indicates that with

respect to family benefits¹⁸ as a share of income, the countries examined in this study can be divided into two groups. In the first group, the share of benefit systematically decreases as we move along the deciles of the income distribution. This takes place in countries in which means-tested benefits are more prevalent- Poland (although there is a slight increase at the median) and the United States. In the second group, in countries that provide generous universal benefits—such as France and Sweden--a declining, continuous 'W' pattern is observed with shares at first decreasing, then increasing around the 30th percentile, then again falling, and then finally increasing again beginning around the 60th and 70th percentile and until the top of the distribution. The share of benefits in income for single-mothers varies across countries from as low as less than ten percent in Poland to 40-50 percent of income in Sweden.

Table 7 and 8 summarize the effects of social benefits on the overall size of the family gap-- i.e., the income differentials between childless women and women with children. This is done in two ways. First, the overall income gap is compared to the gap without benefits. Second, the family gap for earnings is reported and the equalizing effect of taxes and of social benefits is analyzed. The results reinforce each other. Social benefits in France reduce the family gap by 25 percent for single women regardless of whether they are full-time or part-time workers. In Sweden, benefits cut the gap by over 40 percent, again regardless of type of worker, but taxes do not have the same equalizing effect as in the other countries. In Poland the family gap is reduced by about 15 percent and taxes have a small equalizing effect. Benefits in the United States have the smallest diminishing effect on the family gap, about 10 percent for both types of workers (full-time and part-time) and the gap is highest for these four countries. For married women, the benefits have a smaller effect on the size of the family gap, though, with the exception of Sweden, the gaps are on average smaller than for single women for both types of workers.

Total benefit shares by country are presented in Figures 3.7.1-3.7.4. Family benefits¹⁹ are also presented for women, both with and without children. Although these benefits are specifically geared to families with children, single women have a positive share of benefits. This is a result of the means-tested cash-benefits category, which is included in the

¹⁸ Family benefits include child or family allowances, maternity pay, childcare benefits that are not means-tested, and means-tested cash benefits.

¹⁹ See Table 1 for the components of the benefit category by country.

calculations, and contains social assistance not only for families with children. In an effort to partially net out this effect, the single women benefit share is differenced from the single mothers' shares. The family gap across the income distribution is compared with the difference in the family benefit share in order to explore the effect of benefits on the size of the family gap across countries. In most countries, as the share of benefits declines the family gap increases. This relationship is most pronounced in France, though with the calculation of correlation coefficients seems to be of strong magnitude in all countries (See Table 5.).

Estimating family gaps for benefit shares for single women over the income distribution gives an R² of about 0.4, indicating that about 40 percent of the variation in the family gap can be explained by variation in the benefits shares. The results are in Figure 3.8. A high family gap is accompanied by a low share of benefits in total income, but the gap is almost non-existent where benefits represent 25 to 40 percent of income. The effects by country are given in Figure 3.9. The US exhibits the highest family gap, but as benefits shares increase, it shows the biggest decline in family gap of the four countries examined. In France, benefits shares also explain almost half of the variation in the family gap, though with a greater dispersion throughout the income distribution. In Poland, benefits shares represent less than 15 percent of income, but still have a negative effect on the family gap. The smallest effect seems to be in Sweden, with benefits shares about 20 to 40 percent of income and the gap being virtually non-existent.

Figure 3.10 presents the effect of benefits shares on the size of the family gap across the income distribution. Benefit shares have the biggest effect at the bottom of the income distribution. It should be noted, however, that in some countries (for example, in Sweden) the smaller effect in the top of the distribution is much larger than the greatest effect at the bottom of the distribution in other countries (for example, in the United States). It is important to point out that in France and Sweden, benefits shares do not have a big effect for the bottom one percent of the income distribution, but at the same time the corresponding family gap is non-existent.

The Family Gap in Income and Inequality

The family gap ranking for single women is consistent with the inequality ranking for single mothers for all four countries²⁰. For married mothers, it is also consistent in the sense that in Poland and in the United States, it is more unequal than in France and Sweden. Although benefits payments have a big effect in reducing the family gap, particularly toward the lower half of the income distribution, this study finds that they do not have a big redistributing effect compared to taxes in all countries.

5. Conclusions

This exploratory study provides a link between the past literature on family gaps-labor market outcomes for women with respect to wages and employment and the study of the differences in the well being of mothers and women without children. This paper finds evidence that respective benefit shares most likely account for the size of the family gap across the income distribution. In countries with universal benefits, or as is the case here with generous benefits, the family gap for the most vulnerable group—that at the bottom of the income distribution—is alleviated. A big negative effect of children exists in countries with less generous benefits (usually means-tested), though to a lesser extent for those at lower end of the income distribution. The family gap in income is in most cases (except Sweden) greater for single women. The size of the gap varies across countries and within the income distribution. It is a result of a combination of wage penalties incurred by having children, the number of hours worked, and the generosity of the welfare states.

The results indicate that in some countries, government generosity completely alleviates the negative effect of having children for families at the bottom of the income distribution. Does this encourage fertility at the lower percentiles? Causality is still to be determined, but one fact is certain: fertility is not penalized at the bottom of the income distribution. This suggests two things. First, that for women at the bottom of the income distribution, there is no income incentive against having children. Second, poor women that have children will receive welfare payments. Since the effect of children varies across the income distribution, cross-country differences in fertility decisions on the basis of the

²⁰ See Sierminska (2003) for the inequality analysis.

availability of social benefits and across the income distribution, need to be examined to a greater extent.

This study also finds that the argument that a fall in income is compensated for by a rise in leisure for women with children, may possibly hold for married women in countries with low-benefit payments. Among single women, this argument is not true unless some type of minimal safety net is provided. This warrants further investigation with a larger sample of countries.

The inequality analysis finds that the tax and benefit structures in Sweden reinforce equality. Benefit payments have a large effect on reducing the family income gap. The extent of their equalizing effect depends on the generosity of benefits relative to income.

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Table 1. Availability of cash transfer variables for the most recent wave in the Luxembourg Income Study.

| | | PL99 | FR94 | US97 | SW95 |
|------------------------------|-------|------|------|------|------|
| Sick Pay | v16 | - | + | - | + |
| Accident Pay | v17 | - | - | - | - |
| Disability Pay | v18 | + | + | + | + |
| Social Retirement Benefits | v19 | + | + | + | + |
| Child or family allowances | v20 | + | + | - | + |
| Unemployment Compensation | n v21 | + | + | + | + |
| Maternity Pay | v22 | + | + | - | + |
| Military/Vet benefits | v23 | - | + | + | - |
| Other social insurance | v24 | + | + | - | + |
| Means-tested cash benefits | v25 | + | + | + | + |
| Near-cash benefits | v26 | + | + | + | + |
| Alimony or Child Support | v34 | + | + | + | + |
| Other regular private income | v35 | + | + | + | - |
| Other cash income | v36 | + | + | + | |

Source: Luxembourg Income Study

| Table 2. Transfer variable definition | ., | Poland (1999) | France (1994) | USA (1997) | Sweden (1995) |
|-----------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sick Pay | v16 | Included in V24SR. | daily sickness allowance; inlcudes accidents, child birth | na | sick leave compensation |
| Accident Pay | v17 | na | na | na | na |
| Disability Pay | v18 | net invalidity pensions plus taxes on invalidity pensions. | benefit for handicapped adults;invalidity pension for occupational accidents;benefit for education to handicapped children | state disability payments, worker's compensation | disability pay summed over individuals |
| Social Retirement Benefits | v19 | v19s1+v19s4 | v19s1+v19s2+v19s3+v19s4+v19sr | v19s1+v19sr | v19s1+v19s2+v19sr |
| Basic Old Age Benefit | v19s1 | net old-age pensions plus taxes on old- age pensions. | pensions | if age gt 62 social security payments and retirement income | national basic pension |
| Supplemantary Old Age Benefit | v19s2 | na | assistance to old-age dependant person | na | national supplemantary pension |
| Early Retirement Benefit | v19s3 | na | early retirement | na | na |
| Survivors Pension | v19s4 | net family pensions plus taxes on family pensions. | widows and/or orphan pension | na | na |
| Other Social Retirement Income | v19sr | na | minimum old-age benefit | if under 62 disability income, retirement income and survivor income (US railroad) | residual of the original ppens (ppens=all pensions and annuities) |
| Child or family allowances | v20 | v20s1+v20s2+v20sr | v20s1+v20s2+v20sr | na | v20s1 |
| Child allowance | v20s1 | child raising allowance | family benefits; additional family benefits (3+ children) | na | national child allowances |
| Advance Maintenance (Program for Single Parents) | v20s2 | alimonies for ex-child from alimony fund and taxes on cash alimony from alimony fund | allowance for single parents; allowance of family support | na | na |
| Orphans Pension Allowance | v20s3 | na | na | na | na |
| Other Child Allowance | v20sr | nursing allowance | benefit for young child | na | na |
| Unemployment Compensation | v21 | v2ls1+v2lsr | v21s1+v21sr | unemployment compensation and strike benefits from union | labour market assistance includes: daily cash benefit under the unemployment scheme, cash benefit for those that do not qualify for the resular unempl. Scheme (lower benefits), benefits for unemployed during training programs, other benefits during training programs, special benefits during training programs |
| Unemployment Insurance | v21s1 | net unemployment benefit plus taxes on unemployment benefit. | unemployment benefit | na | na |
| Γraining or Retraining Allowance | v21s2 | na | na | na | na |
| Placement or resettlement benefits | v21s3 | na | na | na | na |
| Other unemployment benefits Matemity Pay | v21sr v22 | other benefit from labour fund v22s1 | redundancy payment v22sr | na na | na v22s1 |
| Maternity Pay Replacement | v22s1 | net maternity benefit plus taxes on maternity benefit. | na | na | family support due to taxation includes: parental allowance during the first year and when child sick, both taxable |
| Birth Premium | v22s2 | na. Included in V24SR. | na | na | na |
| Other ma/paternmity | v22sr | na | parental education allowance (for parents who interrupt their career to raise their children/ under age of 3 and at least 2 children) | na | na |

| | | | | disability compensation, survivor | |
|------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Military/Vet benefits | v 2 3 | na | veterans pensions | benefits, veteran's pension amd other veteran's payments | na |
| Other social insurance | v24 | v24sr | v24s1+v24sr | na | v24s2+v24s3+v24sr |
| Invalid Care Premium | v 2 4 s 1 | n a | na | na | na |
| Student Stipend-Not Means-Tested | v 2 4 s 2 | n a | study or research grant | na | student stipend not means-tested |
| Child Care Benefit-Not Means-Tested | v 2 4 s 3 | n a | allowance for child care | na | child care benefit not means-tested |
| Other Residual Social Insurance | v24sr | Net birth, funeral and sickness benefits and gross rehabilitation. | na | na | 'Compensation for military duty(first education), H' I.e compensation when called for military exercise after first exercises, 'Other pos transfers, due to taxation, H' including compensation when taking care of disabled children or other relatives. |
| Means-tested cash benefits | v25 | v25s1+v25s4+v25sr | v25s1 | v25s1+v25s2+v25sr | v25s1 |
| Social Assistance | v 2 5 s 1 | permanent and temporary benefits from social assistance | minimum guaranteed income; social assistance | AFDC/TANF and other public assistance | social assistance |
| Old Age Assistance | v 2 5 s 2 | na | na | if gt 65 supplemental security income | na |
| Unemployment Assistance | v 2 5 s 3 | n a | na | na | na |
| | | benefit for pregnant women and | | | |
| Unmarried Mothers Allowance | v 2 5 s 4 | individuals bringing up children (only 32 | na | na | na |
| Other Means-tested Cash Benefits | v25sr | benefit for pregnant women and individuals bringing up children | na | EITC | na |
| Near-cash benefits | v26 | v 26s 2 + v 26s 6 + v 26s r | v26s2+v26s6 | v 26s 1 + v 26s 4 | v 2 6s 2 + v 2 6s 5 |
| Near-cash food benefits | v 2 6 s 1 | n a | na | food stamps received and school lunches | na |
| Near-cash housing benefits | v 2 6 s 2 | housing supplement | housing allowance; housing benefit | na | means tested housing allowance includes pensioners and military service |
| Near-cash medical benefits | v 2 6 s 3 | n a | na | na | na |
| Near-cash heating benefits | v 2 6 s 4 | na | na | LIHEAP (energy assistance) | na |
| Near-cash education benefits | v 2 6 s 5 | na | allowance at the beginning of the school year | na | means-tested scholarships for university students over 18 years old, or secondary students over 20 years old. |
| Near-cash child care benefits | v 2 6 s 6 | non-monetary nursing allowance | na | na | na |
| Other near-cash means-tested benefits | v26sr | other non-monetary social benefits, temporary non-monetary benefit from social assistance, and other non- monetary benefits from social assistance | na | na | na |
| Alimony or Child Support-Received | v 3 4 | private alimonies and taxes on cash private alimonies | received alimony from ex-partner | child support payments and alimony income | |
| Alimony or Child Support-Paid | v 3 4 x | na | paid alimony | na | paid alimony |
| Other regular private income | v35 | v35s2 | v35s1 | income from financial assistance | na |
| Regular transfers from relatives | v 3 5 s 1 | n a | regular income from ither household | na | na |
| Regular transfers from private charities | v 3 5 s 2 | financial assistance from non-profit organizations, private gifts from other pensions, financial near-cash assistance from non-profit organizations and private near-cash gifts from other pensions. | na | na | na |
| Other Residual Private Income | v35sr | na | na | na | na |
| Other cash income | v 3 6 | net return of income tax from treasury office plus taxes on other income. | life annuity from investment;life annuity from real estate | accident or disability insurance and disability payments from own insurance | na |

Table 3. Family gap means.

| Mean Minimum Maximum Range percentile Mean Minimum Maximum France 1.47 0.63 1.63 1.00 1.8 1.21 1.00 1.27 Deland 1.44 1.44 1.59 0.18 1.20 1.21 1.41 | | Maan Minimu | | | 99th | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|-----------|-------|------|------|---------|---------|-------|--------------------|
| | | wean Minimu | n Maximum | Range | | Mean | Minimum | Maximum | Range | 99th percentile |
| Doland 144 14 150 010 120 120 120 121 141 | France | 1.47 0.63 | 1.63 | 1.00 | 1.8 | 1.21 | 1.00 | 1.27 | 0.27 | 1.13 |
| POMIN 1.44 1.4 1.56 0.16 1.56 1.59 1.51 1.41 | Poland | 1.44 1.4 | 1.58 | 0.18 | 1.38 | 1.39 | 1.31 | 1.41 | 0.10 | 1.28 |
| Sweden 1.07 0.15 1.38 1.23 1.38 1.30 1.08 1.13 | Sweden | 1.07 0.15 | 1.38 | 1.23 | 1.38 | 1.30 | 1.08 | 1.13 | 0.05 | 1.33 |
| United States 1.93 1.34 2.18 0.84 2.22 1.43 1.21 1.50 | United States | 1.93 1.34 | 2.18 | 0.84 | 2.22 | 1.43 | 1.21 | 1.50 | 0.29 | 1.42 |

| Full-Time, Full-Yea | ır Workers | | | | | | | | | |
|---------------------|------------|---------|-----------|-------|------------|------------|-----------|---------|-------|------------|
| | | | Single(1) | | | Married(2) | | | | |
| • | | | | | 99th | | | | | 99th |
| | Mean | Minimum | Maximum | Range | percentile | Me | n Minimun | Maximum | Range | percentile |
| France | 1.49 | 0.84 | 1.64 | 0.80 | 1.76 | 1.2 | 1.00 | 1.26 | 0.26 | 1.09 |
| Poland | 1.36 | 1.12 | 1.38 | 0.26 | 1.56 | 1.4 | 7 1.27 | 1.34 | 0.07 | 1.66 |
| Sweden | 1.04 | 0.13 | 1.1 | 0.97 | 1.41 | 1.3 | 1.13 | 1.34 | 0.21 | 1.32 |
| United States | 1.71 | 1.44 | 1.73 | 0.29 | 2.01 | 1.4 | 3 1.33 | 1.42 | 0.09 | 1.82 |

Note: (1) Ratio of income of single women without children to income of lone mothers'.

(2) Ratio of married women without children to income of married women with children.

Table 4. Effect of socioeconomic characteristics on income by marital status.

| | | F | ance | | | Po | oland | |
|--------------------|------------------------|-----------------------|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|
| | M | MM | S | SM | M | MM | S | SM |
| Age | 0.0124 * (0.0033) | 0.0179 * (0.0019) | 0.0185 * (0.0047) | 0.0154 * (0.0052) | -0.0047 ** (0.0026) | -0.0026 ** (0.0013) | -0.0050 ** (0.0027) | -0.0057 ** (0.0032) |
| Education | 0.1634 * (0.0214) | 0.1793 * (0.0075) | 0.1838 * (0.0214) | ` , | 0.1151 * (0.0092) | 0.1095 * | 0.1079 * (0.0110) | 0.0753 * (0.0115) |
| Urban | 0.1486 ** | 0.0632 * (0.0180) | 0.0027 (0.1032) | 0.0333 (0.0633) | 0.1733 * (0.0358) | 0.0687 * (0.0152) | 0.0580 (0.0405) | -0.0201 (0.0409) |
| Number of Children | - | -0.0600 * (0.0077) | - | -0.0302 (0.0276) | - | -0.0901 * (0.0079) | - | -0.0860 * (0.0176) |
| Young Children | - | -0.0069 (0.0191) | - | -0.1286 ** 0.0624 | - | 0.0046 (0.0157) | - | -0.0328 (0.0430) |
| Immigrant | -0.2550 ** (0.1212) | -0.2747 * (0.0280) | -0.4805 (0.3647) | -0.1242 (0.0802) | - | - | - | - |
| Constant | 10.487 * (0.1748) | 10.274 * (0.0742) | 9.996 * (0.2391) | ` ′ | 10.093 * (0.0965) | 10.024 * (0.0574) | 10.015 (0.0970) | 9.913 * (0.1320) |
| N | 548 | 2770 | 323 | 286 | 746 | 4031 | 508 | 563 |
| F-test (p value) | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| | | Swe | eden | | | U | ISA | |
|--------------------|----------------------------------|----------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| | M | MM | S | SM | M | MM | S | SM |
| Age | 0.0082 * | 0.0054 * | 0.0103 ** | 0.0040 | 0.0094 * | 0.0120 * | -0.0008 | 0.0055 ** |
| Education | (0.0021) 0.0396 * (0.0117) | (0.0016) 0.0456 * (0.0052) | (0.0054) 0.0444 (0.0336) | (0.0037) -0.0036 (0.0188) | (0.0018) 0.1159 * (0.0075) | (0.0016) 0.1123 * (0.0053) | (0.0023) 0.1238 * (0.0089) | (0.0026) 0.1105 * (0.0091) |
| Urban (1) | 0.0149 (0.0272) | 0.0645 * (0.0123) | -0.0003 (0.0764) | 0.0497 (0.0426) | 0.2399 * (0.0225) | 0.1744 * (0.0153) | 0.1788 * (0.0300) | 0.1342 * (0.0317) |
| Number of Children | - | -0.0615 * (0.0075) | - | 0.0179 (0.0177) | - | -0.0798 * (0.0089) | - | -0.0796 * (0.0137) |
| Young Children | - | -0.0340 ** (0.0177) | - | -0.1098 * (0.0428) | - | -0.0111 (0.0166) | - | 0.0419 (0.0342) |
| Black | - | - | - | - | -0.2127 * | -0.1629 * | -0.1918 * | -0.1587 * |
| Hispanic | - | - | - | - | (0.0420) -0.0989 * (0.0380) | (0.0243) -0.1481 * (0.0240) | (0.0368) -0.0856 (0.0586) | (0.0326) -0.1062 * (0.0409) |
| Immigrant | -0.2471 * (0.0580) | -0.2177 * (0.0257) | -0.1194 (0.0520) | -0.0073 (0.0767) | -0.1736 * (0.0477) | -0.0569 ** (0.0257) | -0.1194 ** (0.0520) | -0.0117 (0.0497) |
| Constant | 11.648 * (0.0945) | 11.577 * (0.0615) | 9.536 * (0.0982) | 11.412 * (0.1374) | 9.469 * (0.0830) | 9.296 * (0.0675) | 9.536 * (0.0982) | 9.191 * (0.0989) |
| N | 553 | 2666 | 303 | 279 | 2118 | 4381 | 1777 | 1542 |
| F-test (p value) | 0.000 | 0.000 | 0.342 | 0.043 | 0.000 | 0.000 | 0.000 | 0.000 |

Note: For Sweden, Urban indicates whether individual lives in a large city.

*-1% significance **-5% M-Married women without children

MM-Married mothers

S-Single women without children SM-Single-mothers ***-10%

Table 5. Correlation coefficients between the size of the family gap and benefit components.

| Full-Time, Full-Yea | ar | |
|---------------------|--------------------|---------------|
| | | |
| | Benefit difference | Benefit share |
| France | -0.63 | -0.73 |
| Poland | -0.49 | -0.61 |
| Sweden | -0.09 | -0.55 |
| United States | -0.59 | -0.59 |

Note: Benefit Share-benefits as a percent of income for single mothers.

Benefit difference=single women benefit share-lone mothers' benefit share.

Table 6. Employment gap means.

| | Single | | | | | | Married | | | | | |
|----------------------|--------|-------|-------|-------|---------|------|---------|-------|-------|-------|---------|------------|
| | | S | SM | Gap | Ranking | FG R | Rankir | ngMN | MM | Gap | Ranking | FG Ranking |
| France | 3 | 80.91 | 67.30 | 13.61 | 3 | 3 | 3 | 73.11 | 62.50 | 10.61 | 3 | 1 |
| Poland | 4 | 76.14 | 59.12 | 17.02 | 4 | 2 | 2 | 67.61 | 62.50 | 5.11 | 2 | 4* |
| Sweden | 2 | 78.46 | 74.55 | 3.91 | 1 | 1 | | 87.20 | 83.93 | 3.27 | 1 | 2 |
| United States | 1 | 87.87 | 76.59 | 11.28 | 2 | 4 | ļ | 86.29 | 74.04 | 12.25 | 4 | 3* |

S - Single Women MN - Married without children

FG-Family Gap

SM - Single-Mothers MM - Married Mothers

^{*-}Poland, United States for full-time, full-year workers

Table 7. Family gap means with and without benefits.

| | Single | | | Married | | |
|-------------------------|--------|--------|------|---------|--------|------|
| | S | SM | Gap | MN | MM | Gap |
| France | | | | | | |
| Income | 98020 | 66905 | 1.47 | 124082 | 102132 | 1.21 |
| Income - Benefits | 84797 | 43163 | 1.96 | 107217 | 86227 | 1.24 |
| Earnings (N/A) | | | | | | |
| Net Earnings | 95887 | 48676 | 1.97 | 113634 | 89088 | 1.28 |
| Net Earnings + Benefits | 107275 | 73675 | 1.46 | 129283 | 104713 | 1.23 |
| Poland | | | | | | |
| Income | 13812 | 9615 | 1.44 | 16793 | 12065 | 1.39 |
| Income - Benefits | 9210 | 5828 | 1.58 | 13382 | 10126 | 1.32 |
| Earnings | 11851 | 7446 | 1.59 | 16067 | 11431 | 1.41 |
| Net Earnings | 9480 | 6061 | 1.56 | 12225 | 9727 | 1.26 |
| Net Earnings + Benefits | 14631 | 10835 | 1.35 | 16071 | 12314 | 1.31 |
| Sweden | | | | | | |
| Income | 115405 | 107858 | 1.07 | 181226 | 139500 | 1.30 |
| Income - Benefits | 80618 | 46325 | 1.74 | 153766 | 95559 | 1.61 |
| Earnings | 142627 | 64669 | 2.21 | 234739 | 151333 | 1.55 |
| Net Earnings | 93541 | 38540 | 2.43 | 151666 | 93950 | 1.61 |
| Net Earnings + Benefits | 116825 | 107888 | 1.08 | 177849 | 136694 | 1.30 |
| United States | | | | | | |
| Income | 26620 | 13818 | 1.93 | 34863 | 24381 | 1.43 |
| Income - Benefits | 25218 | 11068 | 2.28 | 33563 | 23470 | 1.43 |
| Earnings | 32646 | 13895 | 2.35 | 42968 | 29421 | 1.46 |
| Net Earnings | 26994 | 12431 | 2.17 | 34541 | 24418 | 1.41 |
| Net Earnings + Benefits | 28339 | 15691 | 1.81 | 35802 | 25443 | 1.41 |

MN - Married without children

S - Single Women SM - Single-Mothers

MM - Married Mothers

Table 8. Family gap means with and without benefits (full-time, full-year workers).

| • | | Single | | | Married | | |
|----------|-------------------------|--------|--------|------|---------|--------|------|
| | | S | SM | Gap | MN | MM | Gap |
| France | | | | | | | |
| | Income | 100612 | 67632 | 1.49 | 124179 | 102480 | 1.21 |
| | Income - Benefits | 88344 | 44351 | 1.99 | 107955 | 87037 | 1.24 |
| • | Earnings (N/A) | | | | | | |
| | Net Earnings | 101249 | 51299 | 1.97 | 115148 | 90067 | 1.28 |
| | Net Earnings + Benefits | 111084 | 75389 | 1.47 | 129650 | 105167 | 1.23 |
| Poland | | | | | | | |
| | Income | 15114 | 11130 | 1.36 | 19573 | 13331 | 1.47 |
| | Income - Benefits | 11091 | 8203 | 1.35 | 16870 | 11829 | 1.43 |
| • | Earnings | 12714 | 8235 | 1.54 | 18948 | 13241 | 1.43 |
| | Net Earnings | 10317 | 6811 | 1.51 | 13687 | 11370 | 1.20 |
| | Net Earnings + Benefits | 15075 | 11154 | 1.35 | 17156 | 13438 | 1.28 |
| Sweden | | | | | | | |
| | Income | 112826 | 108296 | 1.04 | 181279 | 139014 | 1.30 |
| | Income - Benefits | 73875 | 42651 | 1.73 | 154168 | 95399 | 1.62 |
| • | Earnings | 136815 | 64415 | 2.12 | 234951 | 151477 | 1.55 |
| | Net Earnings | 88983 | 38284 | 2.32 | 152183 | 94182 | 1.62 |
| | Net Earnings + Benefits | 115077 | 110550 | 1.04 | 178024 | 136448 | 1.30 |
| United S | States | | | | | | |
| | Income | 30598 | 17944 | 1.71 | 39232 | 27434 | 1.43 |
| | Income - Benefits | 29882 | 16294 | 1.83 | 38385 | 26789 | 1.43 |
| • | Earnings | 37395 | 18076 | 2.07 | 48758 | 33692 | 1.45 |
| | Net Earnings | 30837 | 16175 | 1.91 | 39024 | 27911 | 1.40 |
| | Net Earnings + Benefits | 31720 | 18706 | 1.70 | 39980 | 28735 | 1.39 |

MN - Married without children

S - Single Women SM - Single-Mothers

MM - Married Mothers

Figure 3-1.1 Income distribution for females- France 1994.

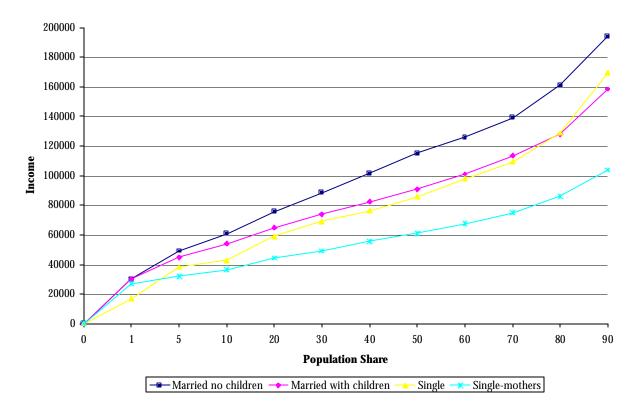


Figure 3-1.2 Income distribution for females- Poland 1999.

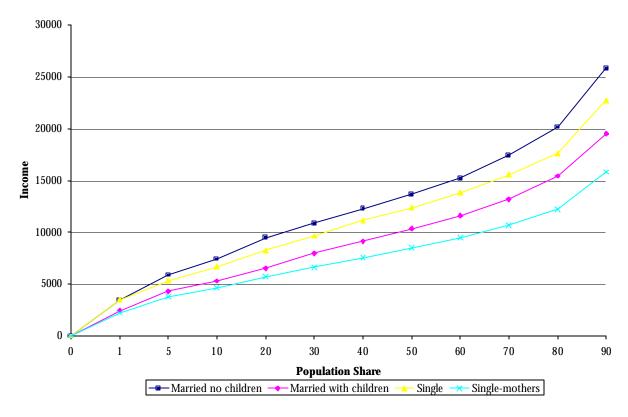


Figure 3-1.3 Income distribution for females-Sweden 1995.

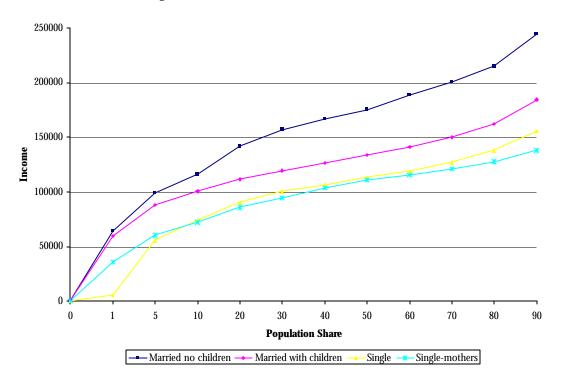
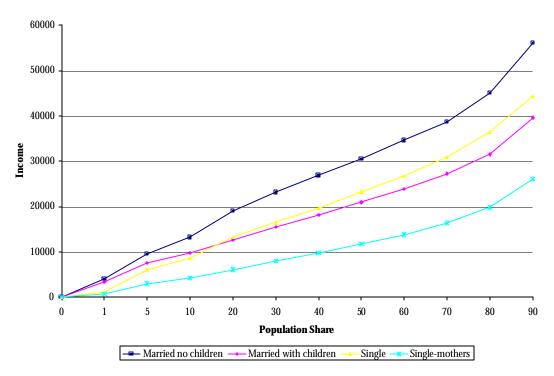
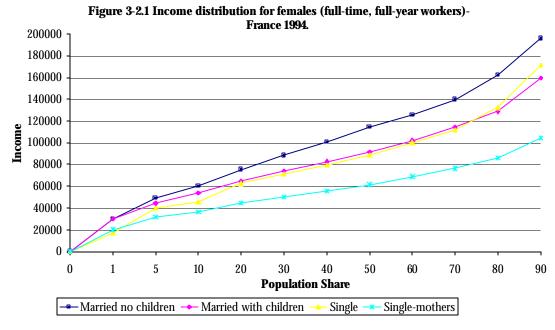
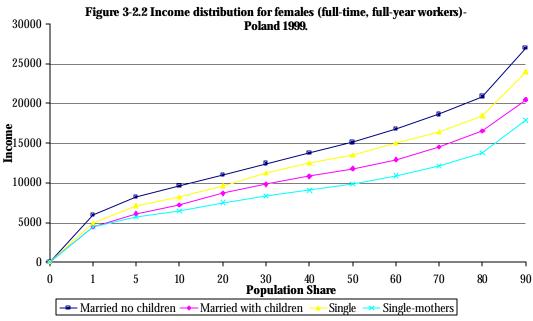
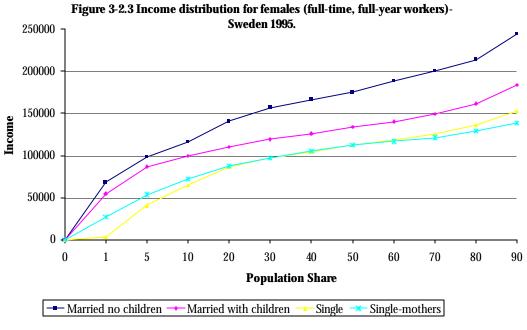


Figure 3-1.4 Income distribution for females-USA 1997.









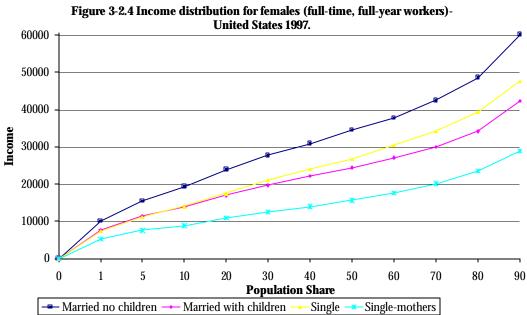


Figure 3-3.1 Family gap in income across the distribution-France.

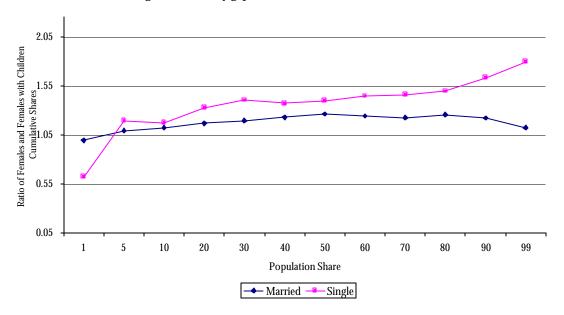


Figure 3-3.2 Family gap in income across the distribution-Poland.

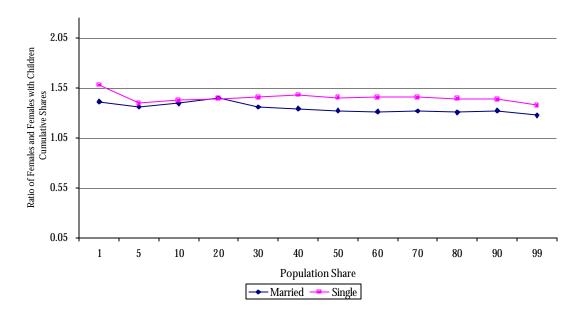


Figure 3-3.3 Family gap in income across the distribution-Sweden.

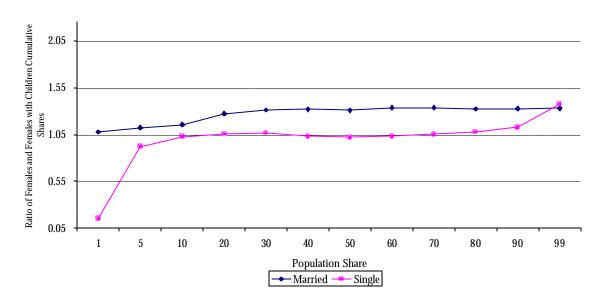


Figure 3-3.4 Family gap in income across the distribution-United States.

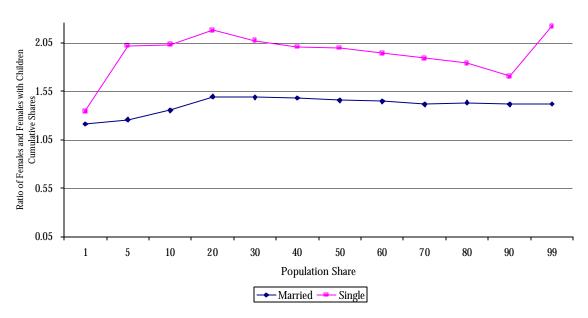


Figure 3-4.1 Family gap in income across the distribution for single females.

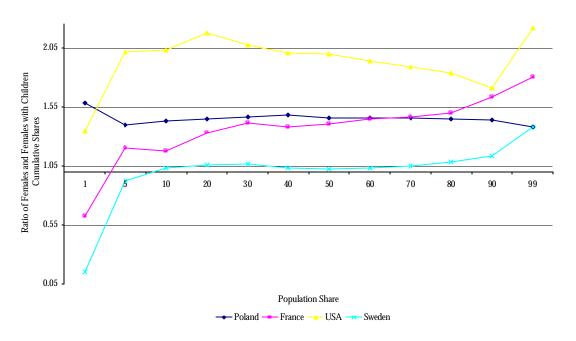
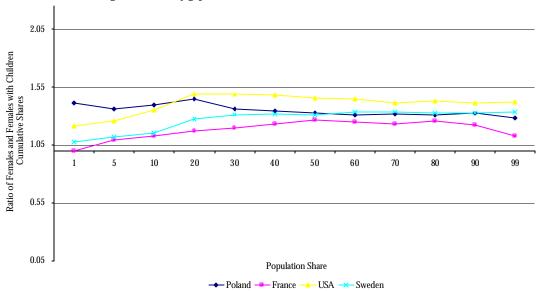


Figure 3-4.2 Family gap in income across the distribution for married females.



 $\label{eq:Figure 3-5.1} Family gap in income across the distribution for single females \\ (full-time, full-year workers).$

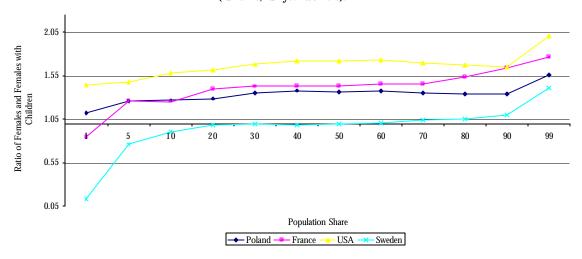
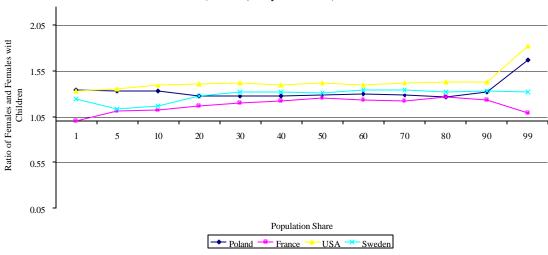
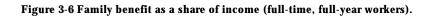
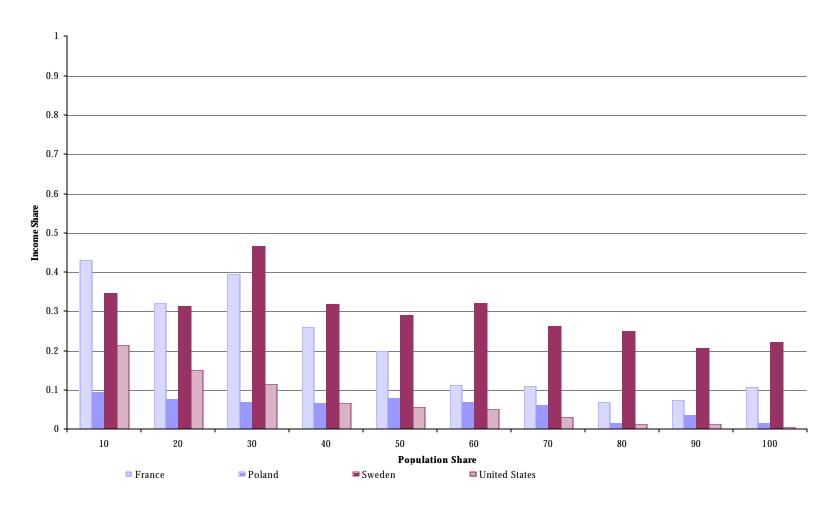
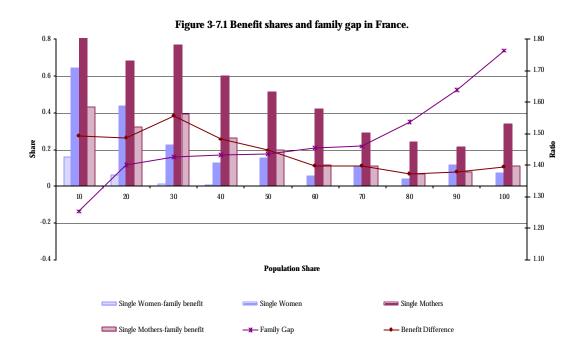


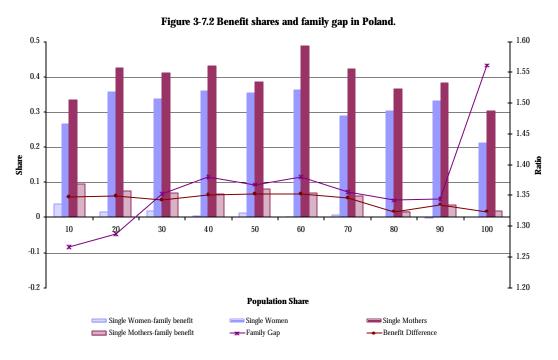
Figure 3-5.2 Family gap in income across the distribution for married females (full-time, full-year workers).











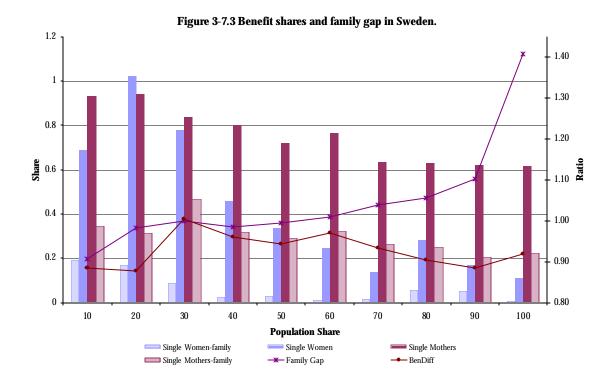


Figure 3-7.4. Benefit shares and family gap in the United States. 0.4 -2.00 0.3 1.90 0.2 Ratio 08.1 **Share** 0.1 1.70 20 60 10 40 50 70 1.60 -0.1 -0.2 $\perp_{1.50}$ **Population Share** Single Women-family benefit Single Women ■ Single Mothers Single Mothers-family benefit ─***** Family Gap Benefit Difference



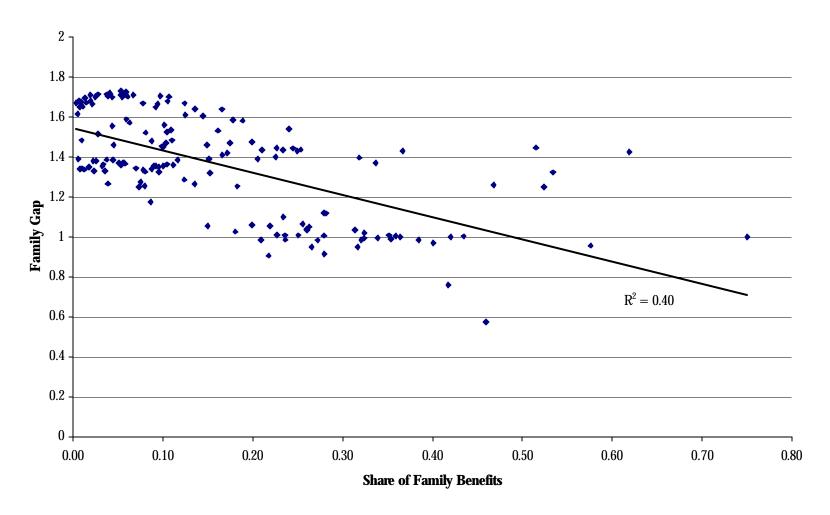
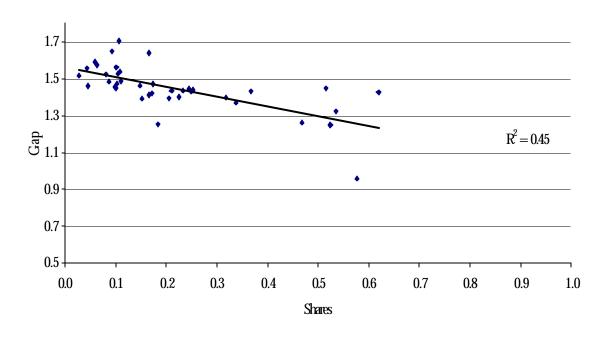


Figure 3.91 Family gap and benefit shares by country.

France



Poland

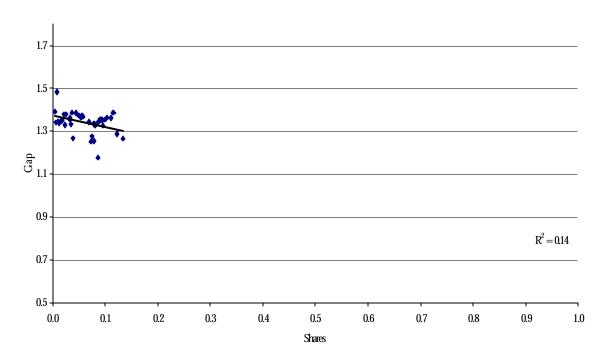
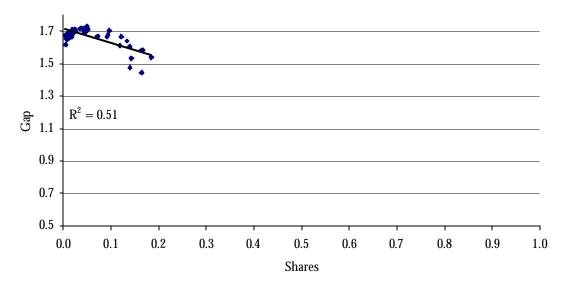


Figure 3-9.2 Family gap and benefit shares by country.

USA



Sweden

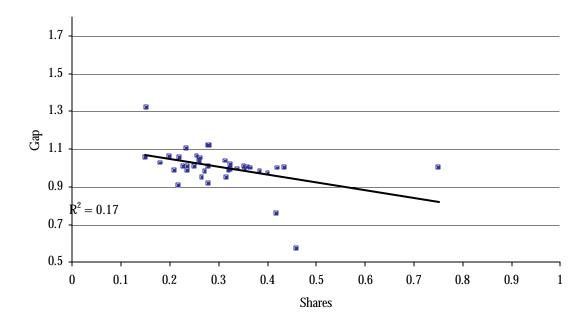
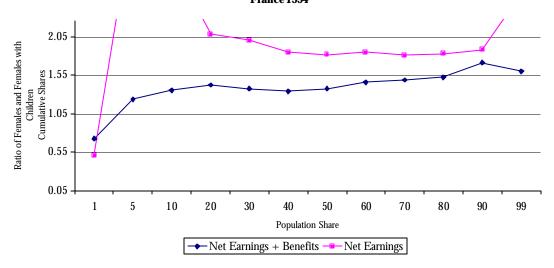


Figure 3-10.1 Effect of benefits on the family gap of single females (full-time, full-year workers) for France and Poland.
France 1994



Poland 1999

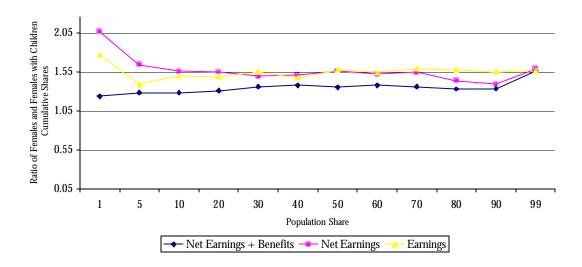
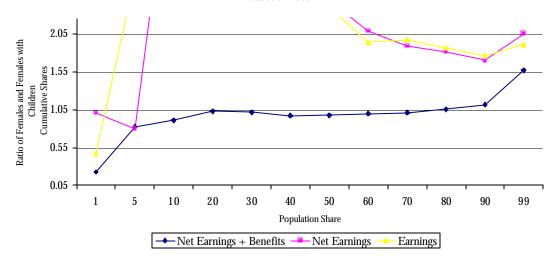


Figure 3-10.2 Effect of benefits on the family gap of single females (full-time, full-year workers) for Sweden and the United States.

Sweden 1995



United States 1997

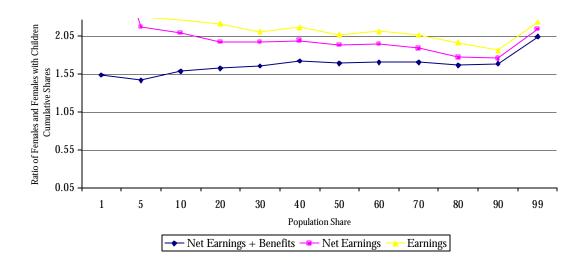
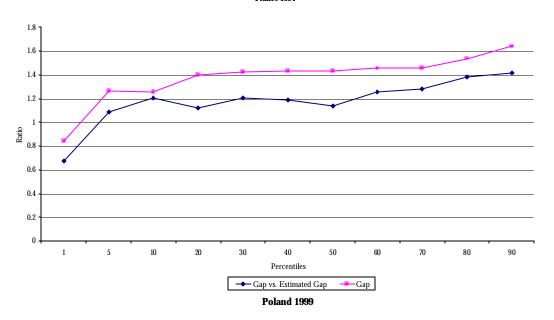


Figure 3-11.1 Comparison of the family gap and the estimated gap in income for full-time and full-year working single females-France and Poland.

France 1994



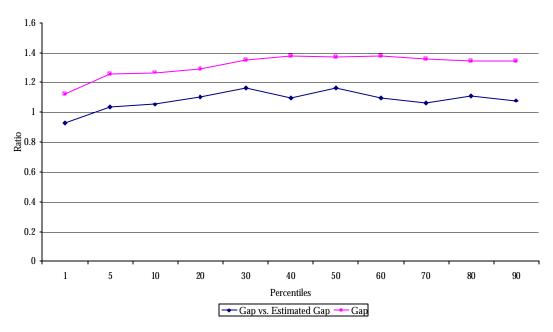


Figure 3-11.2 Comparison of the family gap and the estimated gap in income for full-time and full-year working single females-Sweden and the United States.

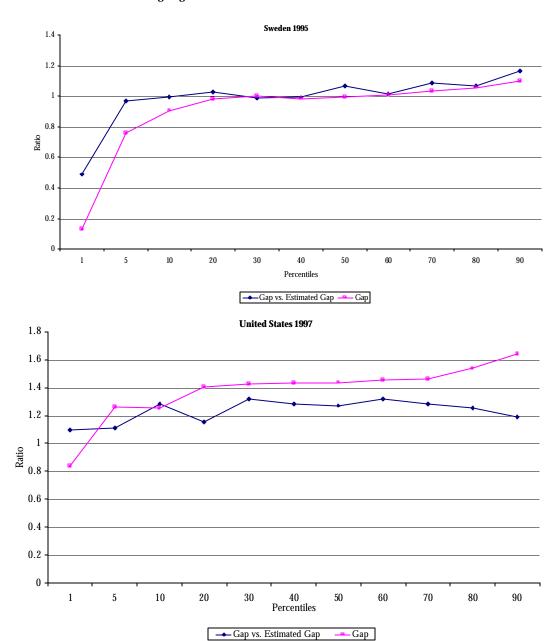
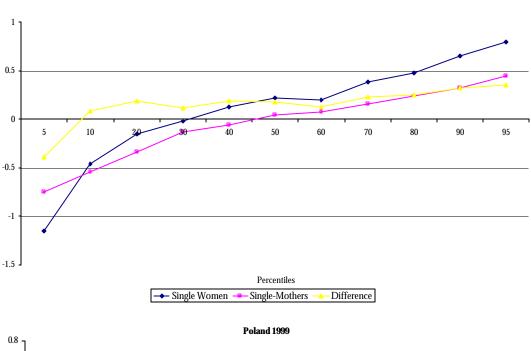
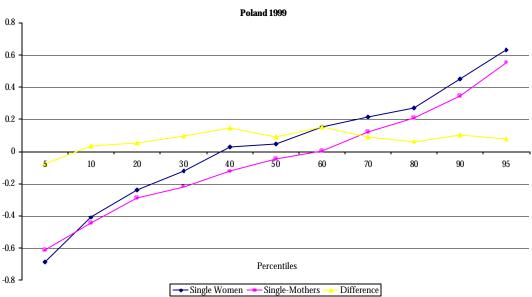
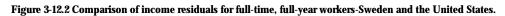


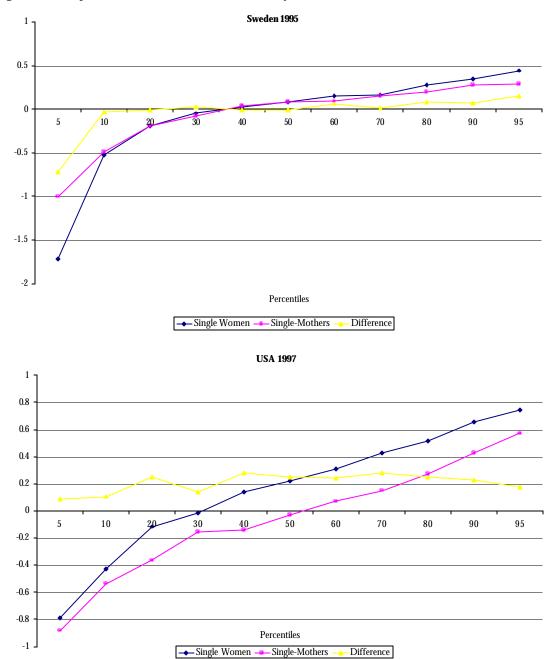
Figure 3-12.1 Comparison of income residuals for full-time, full-year workers- France and Poland.

France 1994









APPENDIX

A.3.2 Recent Changes in Female Labor Market Activity

During the 1980s-1990s many changes took place in the female labor market. During this time more women entered the work force due to financial pressures, increased returnising wages and changing social norms. At the same time fertility and marriage rates declined, and women continued postponing childbearing.

A.3.2.1 Labor Force Participation of Women in OECD countries.

The labor force participation²¹ of females during the last 20 years increased in many countries. Females labor market attachment increased for all age groups including for the 25-54 age group-the most productive age group. By identifying three types of rates of change we can distinguish a high rate of increase in women labor force participation (15 percentage points or more), a stable increase (10-15 percentage points) and a low increase (less than 10 percentage points) (See Table A.3.3). An exception is Poland, where labor force attachment decreased for all age groups.

The highest increase in labor force participation occurred in the Netherlands as it increased by 28 percentage points to 64.5 percent of working age females. Similarly to other countries this has been attributed mostly to an increase in labor force participation of females aged 25 to 54 (up 35 points). Unlike other countries the Netherlands also exhibited a substantial increase in the labor force attachment of young females, which by 2000 was one of the highest in this group. In other countries young females labor force participation decreased or remained at a similar level throughout the 1980 and 1990 most likely in favor of pursing higher education.

²¹ The number of females employed and unemployed is considered to be the number participating in the labor force.

A stable increase in female participation rates took place in Canada, the United States, Belgium and Germany. With the exception of the United States (only 12 points) participation rates increased by 20 percentage points among females aged 25 to 54. This does not indicate American women in this age range have been worse off. It only means that by the year 2000 European and Canadian women had labor force participation rates comparable to those in the US or in other words in the past 20 years other countries have been able to catch with US rates. In European and North American countries a disparity exists among younger females. In the former the participation rates are over 20 percentage points lower than in the latter.

A low rate of increase in participation rates is observed in Japan, France, Italy and the United Kingdom. This for the most part is attributed to a lower increase in labor force participation of females 25-54 and a low increase or even decrease in the participation of younger females. The labor force attachment of females' aged 25-54 is the highest in Canada and France (78.6 and 78.4) and the lowest in Japan and Italy (66.5 and 53.9).

In all countries, except France, females aged 55-64 increased their labor market attachment, but by 2000 the rates varied widely by country from 16% in Belgium to 52% in the United States. These differences may in part be explained by the differences in the retirement age across countries.

A.3.2.2 Employment Rates

Women's employment rates more so than men's vary with family status. Country-specific policies may have an encouraging or discouraging effect on females work patterns. Over the past two decades though, the employment rates of families with children under 20 have increased in all countries (see Table A.3.4). In the early eighties, the United States and France exhibited the highest percentage of working females in different family types,

but since then many countries have caught up to similar levels. The increase among married mothers has been particularly high (over 20%) in Belgium, Germany, the Netherlands and the United Kingdom.

Since the early eighties lone-parent families have become more prevalent in all countries, and apart from Canada are more common with older children present in the household. This suggests, couples are more likely to stay together when younger children are present in the household. The most dramatic increase of lone-parent households has been in the United Kingdom; they have been steadily increasing in Western Europe and lingering at the same rate of five percent in Southern Europe. Single-parent families in the eighties, a majority of which are still female-headed, had a very high rate of participation in the labor market in France, Italy and Luxembourg. Since then, in nearly all countries, the tendency has been for more single-parents to enter the workforce particularly with older children present in the household with the United States at the top of the list. Interestingly and perhaps motivated by family policies this tendency reversed in France.

The disparity between the employment rate of all mothers and the employment rate of women without children in most countries has decreased over time and is the lowest in France and Italy. The rate of convergence is shown in Figure A.3.4 with the employment rate of mothers with children under 20 years old exceeding the employment rate of women without children only in Greece and Italy. This may be explained in part by the female retirement age in those countries. The greatest convergence took place in the Netherlands and the United States, a big jump also occurred in the early nineties in Germany as a result of unification. This is not as much the case when we compare households with small children only. Overall, the statistics show that in the late nineties childbearing hinders labor

market participation to a lesser extent then in the past 20 years, regardless of the extent of family policy in each country. The 'family gap' at least in employment rates, is diminishing for females with children under 20. The 'family gap' in employment for small children (see Table A.3.5) is much larger and in some countries, such as France, it has been increasing.

Table A.3.4 Employment rates in families (in percentages)(1).

| Table A.3.4 Employ | inchi rates i | Employment Ra | • | ±,,. | | | | |
|--------------------|---------------|---------------|---------|-----------------------------------------------------------|------------------|----------------------------|-------------|---------|
| | | Families | | | | | | |
| | Year | Parents | Mothers | Proportion of parent families who are lone- parents | Lone- Parents | All women without children | All Mothers | (0) (4) |
| TI 1 10 (0) | 1000 | 00.00 | 00.00 | 04.05 | ar 0a | (1) | (2) | (2)-(1) |
| United States(2) | 1999 | 80.88 | 69.60 | 24.25 | 75.67 | 75.21 | 70.53 | -4.7 |
| | 1989 | 78.50 | 69.94 | 21.65 | 65.08 | 71.35 | 62.20 | -9.1 |
| | 1984 | 73.65 | 56.46 | 20.27 | 63.56 | 66.46 | 51.22 | -15.2 |
| Canada(3) | 1999 | 78.09 | 69.95 | 21.93 (4) | 68.30 | • | • | |
| | 1989 | 76.13 | 64.28 | 16.96 | 64.61 | • | • | |
| | 1983 | 69.40 | 53.46 | 15.40 | 58.95 | • | • | |
| Japan(5) | 1999 | | 48.12 | • | • | | • | |
| | 1994 | | 49.78 | • | • | | • | |
| | 1989 | | 47.42 | • | | • | | |
| Europe | | | | | | | | |
| Austria | 1999 | 78.49 | 67.09 | 11.50 | 81.01 | 61.99 | 68.47 | 6.5 |
| | | | | | | | | |
| Belgium | 1999 | 67.05 | 69.46 | 11.76 | 56.85 | 58.32 | 67.79 | 9.5 |
| | 1989 | 72.08 | 53.18 | 8.31 | 52.48 | 43.79 | 52.75 | 9.0 |
| | 1983 | 66.79 | 44.32 | 5.93 | 57.12 | 37.49 | 44.64 | 7.2 |
| | | | | | | | | |
| Finland | 1998 | | | 14.45 | 72.49 | | | |
| | 1995 | | | 15.77 | 61.49 | | | |
| | | | | | | | | |
| France | 1999 | 76.12 | 64.28 | 13.18 | 67.56 | 64.66 | 64.49 | -0.2 |
| | 1989 | 73.74 | 57.81 | 10.17 | 72.81 | 60.63 | 58.91 | -1.7 |
| | 1983 | 72.93 | 54.84 | 9.11 | 77.80 | 59.93 | 56.31 | -3.6 |

⁽¹⁾ Data is restricted to single-family households with no one over 60 present. A child is defined as being under 20 unless otherwise stated. In Europe, people with a job, but not at work (for example due to maternity leave) are excluded.

Source: Calculations based on OECD provided data from Eurostat and national authorities unless otherwise stated.

⁽²⁾ Children are defined as 18 years or younger.

⁽³⁾ For households with or without children.

⁽⁴⁾ For households with children only.

⁽⁵⁾ Mothers aged 25-54 and children under 17 are included only.

⁽⁶⁾ Includes own and adopted children till 16 as well as non-working children in education till 25.

Table A.3.4(continued) Employment rates in families (in percentages)(1).

| Tuble 71.01 I(continu | Ed) Employment rates in families (in po | | | Employment Rate of | | | | |
|-----------------------|-----------------------------------------|---------|----------------|-----------------------------------------------------------|------------------|-------------------------------|-------------|---------|
| | Year | Parents | Mothers | Proportion of parent families who are lone- parents | Lone- Parents | All women without children | All Mothers | |
| | | | | | | (1) | (2) | (2)-(1) |
| | | | | | | | | 0.0 |
| Germany | 1999 | 75.60 | 62.28 | 13.58 | 67.19 | 67.29 | 62.59 | -4.7 |
| | 1989 | 67.97 | 43.88 | 10.26 | 64.72 | 60.66 | 45.27 | -15.4 |
| | 1984 | 66.88 | 42.51 | 9.80 | 63.61 | 57.95 | 43.80 | -14.2 |
| Greece | 1999 | 69.43 | 49.23 | 5.38 | 67.03 | 43.17 | 49.85 | 6.7 |
| | 1989 | 66.93 | 43.13 | 5.12 | 61.69 | 40.36 | 43.60 | 3.2 |
| | 1983 | 62.83 | 35.14 | 5.11 | 65.37 | 38.62 | 35.63 | -3.0 |
| | | | | | | | | 0.0 |
| Ireland | 1997 | 61.07 | 42.39 | 10.63 | 43.22 | 58.33 | 42.25 | -16.1 |
| | 1989 | 51.30 | 24.52 | 7.24 | 30.29 | 50.58 | 24.57 | -26.0 |
| | 1983 | 50.75 | 18.97 | 4.29 | 44.21 | 49.30 | 19.52 | -29.8 |
| Italy | 1999 | 66.15 | 44.23 | 6.01 | 69.92 | 43.07 | 45.32 | 2.3 |
| J | 1989 | 65.40 | 40.05 | 4.88 | 67.96 | 37.95 | 40.99 | 3.0 |
| | 1983 | 64.92 | 36.28 | 4.50 | 72.56 | 34.63 | 37.26 | 2.6 |
| | | | | | | | | |
| Luxembourg | 1999 | 70.65 | 49.62 | 8.85 | 78.36 | 59.52 | 51.60 | -7.9 |
| ū | 1989 | 65.07 | 36.14 | 6.95 | 73.66 | 43.93 | 37.96 | -6.0 |
| | 1983 | 61.59 | 30.71 | 5.24 | 75.23 | 40.99 | 32.05 | -8.9 |
| | | | | | | | | |
| Netherlands | 1999 | 77.61 | 64.25 | 11.29 | 63.95 | 67.94 | 63.77 | -4.2 |
| | 1989 | 63.70 | 38.32 | 9.88 | 41.58 | 52.92 | 37.96 | -15.0 |
| | 1983 | 56.29 | 27.71 | 7.78 | 36.27 | 49.55 | 27.67 | -21.9 |
| Poland (6) | 1999 | 74.84 | 04.05 | 10.17 | | | | |
| Polatiu (b) | 1999 | 74.84 | 64.95 63.87 | 10.17 | • | • | • | |
| | 1334 | 13.32 | 03.07 | 10.40 | • | • | • | |
| Portugal | 1999 | 80.29 | 71.24 | 6.82 | 83.07 | 62.03 | 71.85 | 9.8 |
| 1 0114641 | 1989 | 74.48 | 59.13 | 6.57 | 71.79 | 49.24 | 59.64 | 10.4 |
| | 1986 | 70.28 | 52.89 | 5.78 | 65.77 | 43.93 | 53.32 | 9.4 |
| | 1000 | 10120 | 02.00 | 0.110 | 00111 | 10100 | 00.02 | 0.1 |
| Spain | 1999 | 63.42 | 40.52 | 4.29 | 67.63 | 41.44 | 41.48 | 0.0 |
| 1 | 1989 | 56.14 | 27.64 | 2.97 | 60.21 | 30.61 | 28.36 | -2.3 |
| | 1986 | | 22.61 | 2.86 | 56.51 | 28.41 | 23.29 | -5.1 |
| | | | | | | | | |
| United Kingdom | 1999 | 78.44 | 69.96 | 23.07 | 51.17 | 74.34 | 65.66 | -8.7 |
| | 1989 | 73.96 | 60.59 | 13.71 | 46.35 | 70.84 | 58.37 | -12.5 |
| | 1983 | 66.98 | 49.97 | 10.48 | 49.43 | 64.91 | 49.48 | -15.4 |

 $^{(1) \} Data \ is \ restricted \ to \ single-family \ households \ with \ no \ one \ over \ 60 \ present. \ A \ child \ is \ defined \ as \ being \ under \ 20$ unless otherwise stated. In Europe, people with a job, but not at work (for example due to maternity leave) are excluded.

⁽²⁾ Children are defined as 18 years or younger.
(3) For households with or without children.

⁽⁴⁾ For households with children only.

⁽⁵⁾ Mothers aged 25-54 and children under 17 are included only.

⁽⁶⁾ Includes own and adopted children till 16 as well as non-working children in education till 25.

Source: Calculations based on OECD provided data from Eurostat and national authorities unless otherwise stated.

Table A.3.5 Employment rates in families with children under 6 (in percentages)(1).

| All women | | |
|-----------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ne- without nts children | All Mothers | |
| (1) | (2) | (2)-(1) |
| 7 75.2 | 61.5 | -13.7 |
| 5 71.4 | 54.0 | -17.4 |
| 3 . | | |
| 6 . | • | |
| | | |
| | | |
| | | |
| 1 62.0 | 66.5 | 4.5 |
| 2 48.9 | 69.5 | 20.6 |
| 9 43.8 | 56.7 | 12.9 |
| 9 | 58.8 (7) | |
| 9 . | 53.3(7) | |
| 6 64.7 | 56.2 | -8.5 |
| 8 60.3 | 52.6 | -7.8 |
| | nts children (1) 7 75.2 5 71.4 3 . 6 1 62.0 2 48.9 9 43.8 9 . 9 . 6 64.7 | nts children Mothers (1) (2) 7 75.2 61.5 5 71.4 54.0 3 . . 6 1 62.0 66.5 2 48.9 69.5 9 43.8 56.7 9 . 58.8 (7) 9 . 53.3(7) 6 64.7 56.2 |

⁽¹⁾ Data is restricted to single-family households with no one over 60 present. A child is defined as being under 20 unless otherwise stated. In Europe, people with a job, but not at work (for example due to maternity leave) are excluded.

Source: Calculations based on OECD provided data from Eurostat and national authorities unless otherwise stated.

⁽²⁾ Children are defined as 18 years or younger.

⁽³⁾ For households with or without children.

⁽⁴⁾ For households with children under 6 only.

⁽⁵⁾ Mothers aged 25-54 and children under 17 are included only.

⁽⁶⁾ Includes own and adopted children till 16 as well as non-working children in education till 25.

⁽⁷⁾ Unable to reproduce these figures with the data provided, then source is OECD Employment Outlook (2001) Chapter 4.

⁽⁸⁾ Mothers aged 25-54.

Table A.3.5 (continued) Employment rates in families with children under 6 (in percentages)(1).

| | | Employme | nt Rate in | children under 6 (in pei | | _ | | |
|----------------|------|-----------------|------------|--------------------------|--------------------|---------------------|--------------------|-------------------------|
| | | Couple Families | | | Employment Rate of | | | <u> </u> |
| | | | | Proportion of parent | - | All women | 477 | |
| | Year | Parents | Mothers | families who are lone- | Lone- Parents | without children | All Mothers | |
| | rear | Parents | Momers | parents | rarents | (1) | | (9) (1) |
| Germany | 1999 | 70.9 | 51.4 | 10.3 | 49.7 | 67.3 | (2) 51.1 | (2)-(1) -16.2 |
| Germany | 1989 | 64.5 | 35.3 | 7.5 | 48.8 | 60.7 | 35.9 | -24.8 |
| | 1909 | 04.3 | 33.3 | 7.3 | 40.0 | 00.7 | 33.9 | -24.0 |
| Greece | 1999 | 71.3 | 48.4 | 2.9 | 63.2 | 43.2 | 48.6 | 5.5 |
| | 1989 | 68.3 | 41.4 | 2.9 | 66.5 | 40.4 | 41.5 | 1.1 |
| | | | | | | | | |
| Ireland | 1997 | 64.5 | 45.5 (7) | 10.0(7) | 35.2(7) | 58.3(7) | 44.4(7) | -13.9 |
| | 1989 | 52.4 | 25.8 | 5.9 | 20.6 | 50.6 | 25.3 | -25.3 |
| Italy | 1999 | 68.0 | 44.9 | 3.6 | 72.3 | 43.1 | 45.68 | 2.6 |
| Tuny | 1989 | 67.6 | 40.7 | 3.9 | 65.5 | 37.9 | 41.25 | 3.4 |
| | 1000 | 0110 | 1011 | 0.0 | 00.0 | 07.0 | 11.20 | 0.1 |
| Luxembourg | 1999 | 70.4 | 46.1 | 5.7 | 74.1 | 59.5 | 47.39 | -12.1 |
| | 1989 | 66.7 | 35.9 | 3.9 | 59.1 | 43.8 | 36.56 | -7.3 |
| Netherlands | 1999 | 77.9 | 62.3 | 6.6 | 38.7 | 67.7 | 60.71 | -7.0 |
| rvetilerialius | 1989 | 61.8 | 32.5 | 6.7 | 22.7 | 52.9 | 31.68 | -21.2 |
| | 1909 | 01.0 | 32.3 | 0.7 | 22.1 | 32.9 | 31.00 | -21.2 |
| Portugal | 1999 | 80.6 | 70.2 | 5.1 | 82.9 | 62.0 | 70.56 | 8.5 |
| Ö | 1989 | 75.1 | 59.1 | 4.3 | 68.1 | 49.2 | 59.01 | 9.8 |
| | | | | | | | | |
| Poland (6) | 1999 | 68.2(7) | 49.5(7) | 4.8 | 33.3(7) | 63.0(7) | 47.6(7) | -15.4 |
| | 1994 | 67.5(7) | 47.5(7) | 5.8 | 37.2(7) | 58.1(7) | 49.9(7) | -8.2 |
| Sweden (7)(8) | 2000 | | | | 64.6 | | 77.8 | |
| | 1990 | • | | · | 85.9 | • | 86.6 | |
| | 1990 | • | • | • | 63.8 | • | 00.0 | |
| Spain | 1999 | 65.9 | 41.5 | 2.2 | 64.9 | 41.4 | 41.8 | 0.4 |
| | 1989 | 58.7 | 29.5 | 1.9 | 62.8 | 30.6 | 29.8 | -0.8 |
| | | | | | | | | |
| United Kingdom | 1999 | 75.1 | 61.3 | 21.8 | 36.8 | 74.3 | 55.76 | -18.6 |
| | 1989 | 66.5 | 45.3 | 13.3 | 27.5 | 70.6 | 42.66 | -27.9 |

⁽¹⁾ Data is restricted to single-family households with no one over 60 present. A child is defined as being under 20 unless otherwise stated. In Europe, people with a job, but not at work (for example due to maternity leave) are excluded.

Source: Calculations based on OECD provided data from Eurostat and national authorities unless otherwise stated.

⁽²⁾ Children are defined as 18 years or younger.

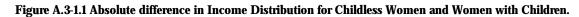
⁽³⁾ For households with or without children.

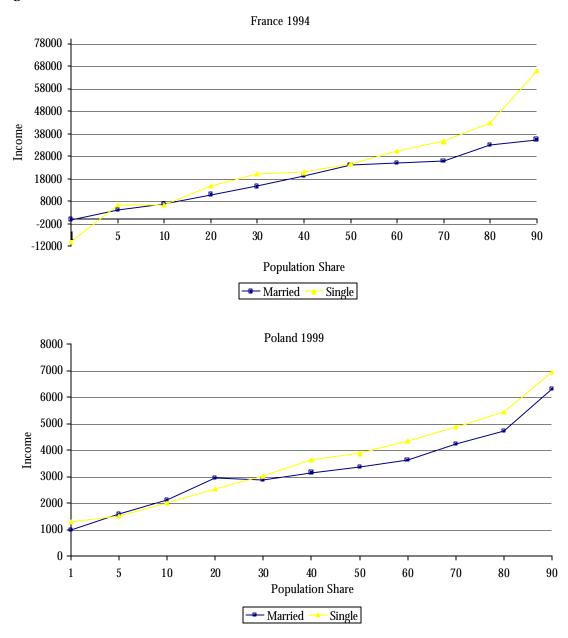
⁽⁴⁾ For households with children under 6 only.

⁽⁵⁾ Mothers aged 25-54 and children under 17 are included only.(6) Includes own and adopted children till 16 as well as non-working children in education till 25.

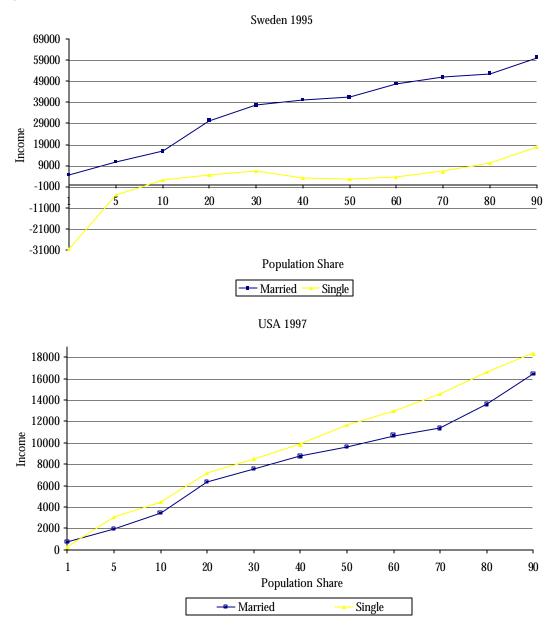
⁽⁷⁾ Unable to reproduce these figures with the data provided, then source is OECD Employment Outlook (2001) Chapter 4.

⁽⁸⁾ Mothers aged 25-54.









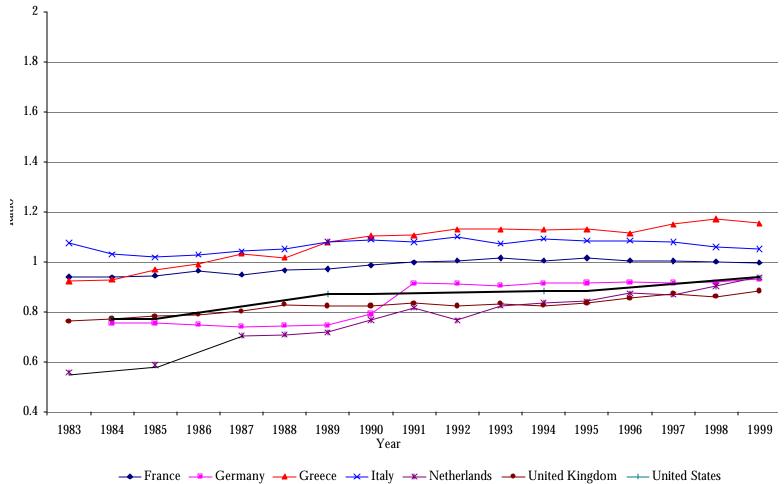


Figure A.3.2 Ratio of Mothers and Women without Children Employment Rates.

Source: OECD provided data from Eurostat and national authorities.

Figure A.3-3.1 Family Gap and Benefit Shares for Single Women by Country.

