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Female headship and poverty in the Arab region: Analysis of trends and dynamics based on a new typology

Shireen AlAzzawi, Hai-Anh Dang, Vladimir Hlasny, Kseniya Abanokova, and Jere Behrman*

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Abstract

Various challenges are thought to render female-headed households (FHHs) vulnerable to poverty in the Arab region. Yet, previous studies have mixed results and the absence of household panel survey data hinders analysis of poverty dynamics. We address these challenges by proposing a novel typology of FHHs and analyze synthetic panels that we constructed from 20 rounds of repeated cross-sectional surveys spanning the past two decades from Egypt, Iraq, Jordan, Mauritania, Palestine, and Tunisia. We find that the definition of FHHs matters for measuring poverty levels and dynamics. Most types of FHHs are less poor than non-FHHs on average, but FHHs with a major share of female adults are generally poorer. FHHs are *more* likely to escape poverty than households on average, but FHHs without children are *most* likely to do so. While more children are generally associated with more poverty for FHHs, there is heterogeneity across countries in addition to heterogeneity across FHH measures. Our findings provide useful inputs for social protection and employment programs aiming at reducing gender inequalities and poverty in the Arab region.

Keywords: poverty, feminization, female-headedness typology, synthetic panels, Arab region, household surveys

JEL Codes: I3, J16, N35, O1

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1. Introduction

Are female-headed households (FHHs) in the Arab region more likely to be poor, and increasingly so? Social and cultural barriers often hinder women's economic participation in the region and several recent studies find that women are at an increasing disadvantage compared to men in labor markets (Amara and Jemmali, 2018; AlAzzawi and Hlasny, 2022). The COVID-19 pandemic further deepened gender inequality in many countries (Dang and Nguyen, 2021; Alon *et al.*, 2022). Yet, few studies have investigated the topic of poverty feminization in the region. These are important policy questions since many countries in the region specifically target FHHs based on the premise that they are more vulnerable to poverty and probably increasingly vulnerable to poverty, particularly during the pandemic. Furthermore, the Arab region is home to countries of different income levels with diverse social and cultural circumstances, resulting in different context-specific factors contributing to poverty feminization.

That poverty is more prevalent among women than men is widely assumed, and various explanations are offered for it. These include lower school enrolment rates and less work experience (Grant and Behrman, 2010), limited access to income-generating assets such as land (Deere and Leon, 2003), credit and other financial services (Demirguc-Kunt *et al.*, 2013), physical and social capital, and technology (World Bank, 2011; Klasen *et al.*, 2015), and market discrimination (Buvinic and Gupta, 1997).

There is, however, far less agreement on the existence of "feminization of poverty" affecting FHHs (Chant, 2010; Duflo, 2012; Klasen *et al.*, 2015; Bradshaw *et al.*, 2017). Buvinic and Gupta (1997) observe that of 65 studies covering Africa, Asia, Latin America and the Caribbean, 38

¹ These include Egypt's largest poverty-targeting cash transfers program, Takaful, and other subsidy programs in Jordan, Lebanon, and Tunisia (NAF, 2020; Nasri, 2020; ESCWA, 2021; World Bank, 2022).

studies find that FHHs were overrepresented among the poor, 15 others found that poverty was associated with certain FHH types, and the remaining eight studies show no such relationship. While Quisumbing *et al.* (2001) and Medeiros and Costa (2008) find FHHs to be consistently poorer in only 10 developing countries in Africa, Asia and Latin America, Chant (2003) fails to obtain a similar finding in studies for the three continents. More recently, Milazzo and van de Walle (2017) even find that despite a growing population share of FHHs in Africa, FHHs saw faster poverty reduction than male-headed households (MHHs). Furthermore, one particular challenge in understanding the current literature on poverty feminization is variations in how FHHs are defined (see Appendix A, Table A.1; we return to this discussion in the next section).

Several authors investigated the gender dimension of poverty in the Arab region before the onset of the Arab Spring uprisings in 2011 (Nassar, 1997; Datt *et al.*, 2001; El-Laithy, 2001). More recent post Arab-Spring studies examined poverty dynamics for the whole population and different population groups (e.g., Dang and Ianchovichina, 2018). Yet, these studies do not investigate the gender prism; just a few studies explicitly examine poverty feminization related to FHHs but only on a single-country basis (AlAzzawi, 2018; Amara and Jemmali, 2018; AbdelLatif *et al.*, 2019). Furthermore, these few studies stopped short of examining poverty dynamics for FHHs due to the lack of panel data.² These knowledge gaps prevent efficient and cost-effective policy interventions, since policies that address chronic poverty could be quite different from those that tackle transient poverty.³

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² Mixed results exist regarding static poverty across countries. For example, comparison between MHHs and FHHs by self-reported headship revealed that for Egypt, FHHs are less likely to be poor (AlAzzawi, 2018; AbdelLatif *et al.*, 2019) while the opposite result holds for Tunisia (Amara and Jemmali, 2018).

³ For example, while social safety-net programs better address transient poverty (e.g., as they help prevent the non-poor but vulnerable households from falling into poverty), longer-term investments in human capital and infrastructure can tackle chronic poverty. See, e.g., Barret (2005) and Ravallion (2016) for further discussion on different policy interventions regarding chronic poverty versus transitory poverty.

Our study makes several new contributions to the literature. First, we propose and evaluate a novel typology of FHHs consisting of four main types and several sub-types, which are based on self-reported responses, demographic characteristics, and socio-economic characteristics. This approach allows us to employ more nuanced headship definitions that reach beyond the traditional identification solely based on the household head's gender to better include other aspects of household female composition. Our proposed typology also calls for more attention to the important role of children in defining FHHs, since FHHs with children could show remarkably different, static and dynamic, poverty outcomes from those of FHHs without any children or those of non-FHHs. Second, we study the trends in the FHH poverty—gender nexus and poverty dynamics, for six countries across the Arab region—namely Egypt, Iraq, Jordan, Mauritania, Palestine and Tunisia—for which little knowledge exists regarding poverty by FHH status.

Third, despite the absence of actual panel data, we construct synthetic panels that allow us to examine FHH poverty dynamics for these countries. By conducting analyses on both poverty incidence and dynamics, we contribute to a better understanding of the dynamic economic well-being of FHHs over time. In fact, to our knowledge, we offer the first multi-country study that investigates to what extent FHH poverty exists across a number of countries in the Arab region, and whether FHHs, according to a variety of household types, are more likely to enter or escape poverty over time, using recent survey data. We also make a new data contribution by carefully assembling and harmonizing relevant, up-to-date surveys from multiple sources in a region that is well recognized for limited data access.

We find that the shares of FHHs widely vary, ranging from 10 percent to more than 40 percent depending on the countries and definitions. Compared with non-FHHs, most types of FHHs (including self-reported, potential, and most-educated-female-adult FHHs) are 1 percent to 4

percent less likely to be poor while majority-female-adult FHHs are 3 percent to 5 percent more likely to be poor.

We also find considerable mobility in and out of poverty over the past decade, with the average poor FHH having between 21 and 54 percent chance of escaping poverty, depending on the country. Yet, country heterogeneity exists, with Iraq, Jordan, and Mauritania having upward mobility rates of between 41 and 54 percent, and Egypt, Palestine and Tunisia having upward mobility rates between 21 and 31 percent. More children are generally associated with more poverty and lower chances of escaping poverty for FHHs. The upward mobility rates out of poverty for FHHs without children, FHHs with children, and non-FHHs across all countries are respectively 42 percent, 37 percent, and 36 percent. The corresponding figures for downward movement into poverty for these FHH types are respectively 14 percent, 17 percent, and 19 percent. Our results on mobility are robust to different definitions of FHHs, alternative estimation models, and sample sizes.

The rest of the paper is organized as follows. Section 2 discusses the various definitions of female headship in the existing literature before proposing our new typology of female-headed households (Section 2.1) and introduces the synthetic panel method that allows us to assess FHH poverty feminization dynamically without actual panel data (Section 2.2). Section 3 reviews the available data (Section 3.1), welfare aggregates and standardization measures (Section 3.2), and presents descriptive statistics (Section 3.3). Section 4 reports the main results for cross-sectional poverty (Section 4.1) and poverty dynamics (Section 4.2), and Section 5 concludes with key findings and policy implications. Appendixes A and B present additional estimation results and descriptive statistics, Appendix C discusses the synthetic-panel method, and Appendix D provides further analyses with equivalence scales.

2. Analytical Framework

2.1. Typology of female-headed households

Households vary in their compositions and socioeconomic characteristics. In the countries in our sample, the majority of households are comprised of a married couple with one- or two-income earners, with or without children. Single-head households vary broadly: from widowed retirees who may have already worked for many years and are now living with older children who might be supporting them, to a middle-aged mother who got divorced or lost her husband and is struggling to meet ends by joining the labor market for the first time. Among this group, the presence of another adult male, whether an earner or not, is yet another confounding factor, as well as the presence of children.

The heterogeneous nature of FHHs and the need to separately study different FHH types have been discussed extensively in the literature on poverty feminization (e.g. Kabeer, 1997; Quisumbing, et al., 2001; Klasen et al., 2015; Beegle et al., 2016; Munoz Boudet et al., 2018). The variety of household-headship designations in existing studies has led to mixed results regarding poverty feminization and dynamic patterns. Our reading of some selected studies in the past two decades suggest that while FHHs are not observed to be poorer than non-FHHs in many cases, FHHs can be poorer or have lower consumption depending on the specific type and country context (Appendix A, Table A.1). Advancing an FHH typology can thus be critical for clearing the apparent inconsistencies and for re-classifying households with what may be considered "de facto female heads" (based on demographic or socioeconomic characteristics), as opposed to "de jure female heads" (based on official status or self-reported information). This also has important implications for poverty reduction efforts targeted at vulnerable population groups.

Figure 1 presents our proposed typology of FHHs, which consists of several layers. For the

first layer, existing studies can be broadly grouped under two categories: "de jure FHH" and "de

facto FHH" (second row). For the second layer, we consider three approaches under these two

groups: the self-reported approach (under "de jure FHH"), and the demographic approach and the

socioeconomic approach (under "de facto FHH") (third row). For the third layer, we consider four

main types of FHHs under these three approaches: i) Type 1: self-reported FHHs, ii) Type 2: FHHs

defined using the majority share of females among adults in the household (i.e., majority-female-

adult FHHs), iii) Type 3: potential FHHs, and iv) Type 4: FHHs defined as those where the most-

educated adult member is female and no working-age employed male is present (i.e., most-

educated-female-adult FHHs) (fourth row). Furthermore, under these four main types, we also

consider five alternative sub-types, which include de jure and married FHHs (under self-reported

FHHs), FHHs defined using the majority share of employed females in the household (under

majority-female-adult FHHs), and asset and core FHHs (under potential FHHs) (fifth row).⁴

Finally, all these types of FHHs should be considered separately with or without any children (last

row), since the presence of children plays a crucial role in FHHs' poverty as discussed below.

The typology is motivated by both our review of the literature and our empirical analysis for

each type of FHHs in the Arab region. Figure 1 briefly refers to some illustrative studies that

employ these approaches and we elaborate below on this new typology.

"De jure" FHHs: self-reported approach

⁴ While we propose these three approaches and types for classification purposes, they are not mutually exclusive and

existing studies have combined one or more in defining female headship.

6

A natural departure point to analyzing FHHs is to adopt the self-reported identification of the head by the survey respondent (our first type, self-reported FHHs), which falls under the *de jure* FHHs group. Marital status is a key characteristic in this respect. A large share of FHHs are formed as the result of a major marital shock such as divorce or widowhood. If, prior to the shock, the husband was the primary income-earner, the newly-formed FHH may be more likely to fall into poverty (Brown and van de Walle, 2021). FHHs formed through widowhood, especially at a young age with children present, can exhibit both more poverty and higher persistence of poverty (Appleton, 1996; Dreze and Srinivasan, 1997; Horrell and Krishnan, 2007; van de Walle, 2013; Munoz Boudet *et al.*, 2018; Brown and van de Walle, 2021) than FHHs formed largely "by choice", through divorce or migration of the male spouse (Quisumbing, *et al.*, 2001; Klasen *et al.*, 2015; Beegle *et al.*, 2016; Bradshaw *et al.*, 2017).

Females who never marry or who seek divorce might have chosen this status because they have strong prospects for supporting their newly-formed households on their own, such as higher personal incomes or enabling family-support systems. Ignoring such considerations could mask differences between self-reported FHHs that are financially secure and those that are economically vulnerable (Kabeer, 1997; van de Walle, 2013; Milazzo and van de Walle, 2017). Consequently, it may also be useful to consider alternative types of households based on their marital status—never married, married, divorced or separated, and widowed.

In our samples, most self-reported MHHs are married, and this group is the largest in the sample. By contrast, from 69 to 77 percent of self-reported FHHs in all six countries are widowed, except for Mauritania and Palestine, where 35 and 53 percent, respectively, of self-reported FHHs are widowed households when considering all years together (Appendix B, Tables B.1-B.7). The second-largest group of self-reported FHHs have married heads, but this share typically remains

about 20 percent or below in all countries and years, except for Mauritania where it rose rapidly to almost 40 percent after 2008.⁵

"De facto" FHHs: demographic and socioeconomic approaches

The term "head" is a loaded term carrying strong connotations about household decision-making power that has traditionally been given to the oldest-male member (regardless of his breadwinner status). This is certainly an issue in the Arab region, where the traditional patriarchal system may preclude designating the female as "head" in the presence of a disabled adult male or a son (regardless of age), even if the woman is the main income-earner.

A *de facto* FHH can thus be defined as one where the male head is temporarily or regularly absent, or (if co-resident) is not the main breadwinner (Buvinic and Youssef, 1978; Buvinic *et al.*, 1983; Klasen *et al.*, 2015). *De facto* headship accounts for the demographic composition of the household, as well as the socioeconomic circumstances determining the respective members' relative contributions to household resources (Rosenhouse, 1989; Handa, 1994, 1996; Rogers, 1995; Varley, 1996; Buvinic and Gupta, 1997; Fuwa, 2000; Posel, 2001; Budlender, 2008; Grown and Valodia, 2010; Chant, 2010; Rogan, 2013; Klasen, 2015).

A *de facto* FHH may be more vulnerable to poverty for several reasons. In many societies, the absence of male connections to local economic and social institutions can be debilitating. *De facto*

⁵ One complication in classifying married self-reported FHHs arises where one spouse works overseas and sends home remittances, which is common in the region. If the overseas spouse is the husband, the stay-behind spouse might or might not designate herself as the household head in his absence. This can underestimate poverty among "true" FHHs, where the female head does not rely on others for support, since some of the self-declared female heads or main income-earners are in fact temporary designees while the main income-contributing spouses are overseas. In the surveys for all years, remittances are major sources of income for self-reported FHHs, consisting for example of 68% of the consumption per capita in Egypt, and 37% of the consumption per capita in Jordan (Appendix B, Tables B.1

and B.4, all years columns). However, the surveys lump together domestic and overseas remittances and do not allow any further breakdown or provide information on the amount of overseas remittances. The surveys do not identify the relations between the remitters and the households, which complicates matters as such remittances might be alimony or in-kind support.

FHHs residing with the female heads' fathers or older sons may still be better off than FHHs who do not have support of working-age males; for example, agricultural production may become especially harder due to fewer working-age household members working on the farm (Rogan, 2013; Brown and van de Walle, 2021). These FHHs may also have less access to productive assets such as livestock or extension services. Moreover, women in Arab labor markets have far fewer job opportunities compared to men. Their labor-force participation rates are currently among the lowest in the world; their unemployment rates are also four times the world average (UNDP, 2022). When they do work, they tend to face wage and occupational discrimination (Elhamidi and Said, 2008) or are overrepresented in the informal sector with low pay and no social insurance. Residing in a majority-female household, or in one where the majority of earners are female, affects the propensity of being poor (Rogan, 2013; Munoz Boudet *et al.*, 2018).

Ideally, an objective criterion would be used to assign headship to the family member whose income or decision-making contributes most to maintaining the family. For instance, Gammage (1998) found that using the *maintenance* criteria to define FHHs in El Salvador and Costa Rica results in a markedly higher percentage of such female-maintained households (FMHs) compared to the *de jure* FHH group, and higher poverty incidence. Unfortunately, household surveys in the Arab region do not provide information about individual incomes or total earnings, only aggregates for the household.

In the absence of such information, based on our review of the literature (Table A.1 in Appendix A), we propose several alternative definitions of *de facto* FHHs using demographic and socioeconomic criteria to provide a more multifaceted understanding of FHHs. Regarding household composition, we consider households where the *proportion of females among* (*working-age*) *adults exceeds* 0.5 (second type, majority-female-adult FHHs). We define *potential FHHs* as

those households where there are no working-age males present (third type, potential FHHs). The final type of FHHs combines the demographic and socioeconomic criteria and consists of households with no employed males, whose most-educated adult member is female (fourth type, most-educated-female-adult FHHs).

Notably, these main types of FHHs can also include subcategories. For example, under the second-type majority-female-adult FHHs, we can consider those where the *proportion of employed females exceeds that of employed males (majority-employed-female-adult FHHs)*. Similarly, under the third-type potential FHH, we can consider a subcategory called *core FHH* that encompasses only the potential FHHs with employed females, and another subcategory called *asset FHH* encompassing only households with females who have ownership rights over the dwellings they reside in.

Key confounding factors: presence of children

To account for additional household circumstances interacting with household poverty status, we should distinguish FHHs with and without children. Access to childcare affects women's labor force participation (LFP) in many countries around the world, rich and poor alike (Akgunduz and Plantega, 2018; Clark et al., 2019). In European countries, childless women (with or without a partner) and single mothers have higher personal earnings than women whose family trajectories combined parenthood and partnership (Muller et al., 2020). In Egypt, childcare similarly presents a considerable barrier to women's employment (Caria et al., 2022). Yet, only a handful of previous studies have examined how poverty differs with and without children, but mostly for self-reported FHHs (Medeiros and Costa, 2008; Liu et al., 2017; AlAzzawi, 2018). Exceptions include Munoz Boudet et al. (2018) and Munoz Boudet et al. (2021), who look at household gender composition

with and without children. Importantly, the common finding in these few studies is that FHHs with children are generally poorer than FHHs without children.

Furthermore, a related economics literature on equivalence scales suggests that scale adjustments (for different numbers of adults and children) could have substantial effects on poverty and profiles of the poor for various countries at different income levels (Lanjouw and Ravallion, 1995; Newhouse *et al.*, 2017; Abanokova *et al.*, 2022). This is especially relevant for FHHs; for example, FHHs tend to have lower numbers of household members, but higher dependency ratios (World Bank, 2011; Klasen *et al.*, 2015). In our sample (Appendix B, Table B.7), across all years and countries, the average size of FHHs is 5.7, while that of MHHs is 7.4. The average age of female heads is much higher than that of male heads (56 for FHHs vs. 48 for MHHs). Female heads are also mostly widowed (70.7%, compared to 1.3% for male heads).

For widowed FHHs, their offspring are typically already-grown, independent adults who might be contributing to household expenses from their own earnings. The current welfare of these female heads is likely a function of their accumulated earnings, or more likely those of their deceased or living spouses and adult children, and thus are not strictly comparable to (male or female) heads with young children who rely on current labor market earnings to support themselves and their families. This distinction is especially pertinent to dynamic analysis. If the full sample of female or male heads were treated as a single group, this would unduly bias the results in favor of the elderly, widowed female heads without children, and against the much younger working male heads with children. Consequently, it is important to examine poverty incidence and dynamics among FHHs with or without children.

In summary, our new typology consists of four main types of FHHs and their associated five sub-types (variants). We investigate poverty trends and dynamics of these four types of FHHs for

households with and without children, further differentiating between those with different numbers of children.

2.2. Empirical framework

We provide both static and dynamic analyses of FHH (headcount) poverty in the Arab region. For static analysis, we examine the differences in poverty between different types of FHHs and non-FHHs. Specifically, we estimate the following linear probability model

$$p_{ijch} = \gamma_h FHH_{ijch} + \theta_h FHH_{ijch} * Children_{ijch} + \beta_h' Z_{ijch} + \mu_c + \tau_j + \varepsilon_{ijch}$$
 (1) where p_{ijhl} is a binary variable representing the poverty status (i.e., equals 1 if poor and 0 otherwise) for household i , $i = 1,..., n$ in survey round j , $j = 1$ or 2, country c , $c = 1,..., 6$, for FHH type h (FHH_{ijch}). $Children_{ijch}$ is the number of young children age 0-14 in the household (who are generally not old enough to enter the labor force). Z_{ijch} is a vector of control variables, including household employment and demographic characteristics and residence area (i.e., urban/rural residence). μ_c and τ_j are respectively the country and survey round (year) fixed effects that control for unobserved macro factors that can affect the whole country or outcomes in specific years, and ε_{ijch} is the error term.

In Equation (1), γ_h and θ_h are the coefficients of interest. Compared to non-FHHs, γ_h presents the association between poverty and different types of FHHs without any children, $\gamma_h + \theta_h$ presents this association for FHHs with exactly one child, and so on. For easier interpretation, we can also fix the number of children at the mean $(\overline{Children_{ijch}})$ and consider the association between poverty and different types of FHHs with the average number of children as $\gamma_h + \theta_h \overline{Children_{ijch}}$.

It is useful to estimate and compare two different versions of Equation (1), one without the control variables Z_{ijch} and one with these control variables. If the estimates for γ_h considerably change (or weakens) if the control variables are added, this indicates that the specified FHH type's exposure to poverty is sensitive to these control variables. Put differently, this presents a test whether the specified FHH type can capture a relationship with poverty that is not explained by the control variables (i.e., how good the definition of the specified FHH type is). The findings based on our review of the literature suggest that FHHs' exposure to poverty (γ_h and to some extent θ_h) are likely sensitive to household composition and employment characteristics.

For the dynamic analysis, let y_{ijch} represent type-h FHHs' household consumption (or income) per capita, and z_{jch} be the poverty line in period j for country c. We are interested in knowing the unconditional measures of upward poverty mobility such as

$$P(y_{i1ch} < z_{1c} \text{ and } y_{i2cl} > z_{2c}) \tag{2}$$

which represents the percentage of type-h FHHs that are poor in the first survey round (year) but nonpoor in the second survey round, or the conditional upward mobility measures such as

$$P(y_{i2ch} > z_{2c} | y_{i1ch} < z_{1c})$$
(3)

which represents the percentage of poor households in the first round that escape poverty in the second round.

If true panel data were available, we could straightforwardly estimate the quantities in (2) and (3); but in the absence of such data, we can use synthetic panels to study mobility. We employ recent advances with synthetic panel data methods (Dang and Lanjouw, 2023) to construct synthetic panel data and provide more insights into the dynamics of poverty for FHHs over time.⁶

⁶ Recent validations and applications of the synthetic-panel methods by various researchers for different country contexts in Africa, Latin America, the Middle East, and Europe have been encouraging regarding accurate projections

Different from traditional pseudo-panel methods that require multiple rounds of cross-sectional surveys to study poverty mobility at the cohort level, the method that we apply works with as few as two survey rounds and provides poverty estimates at the more disaggregated household level. This method essentially exploits the time-invariant variables across the cross-sectional surveys to link different cohorts, in combination with additional cohort-based assumptions about the error terms, to construct the synthetic panels. Further discussion of this method and detailed estimates are provided in Appendix C.

3. Data and descriptive statistics

3.1. Data

We analyze 20 survey rounds from six countries: Egypt, Iraq, Jordan, Mauritania, Palestine and Tunisia. For Egypt, we use the Household Income, Expenditure and Consumption Surveys (HIECs) for 2012-2013, 2015, 2017-2018, and 2019-2020; for Iraq, the Household Socio-Economic Survey (IHSESs) for 2007 and 2012; for Jordan the Household Expenditure and Income Surveys (HIESs) for 2010-2011 and 2013-2014; for Mauritania, the Permanent Survey of Living Conditions of Households (EPCVs) for 2004, 2008, 2014, and 2019; for Palestine, the Expenditure and Consumption Survey (PECSs) for 2007, 2009, 2011, and 2016-2017; and for Tunisia, the National Survey on Household Budget, Consumption and Standard of Living (NSHBCs) for 2005, 2010, 2015, and 2021. These surveys provide rich information on household expenditures and various household and individual characteristics for the different household types.

of economic status (Ferreira et al., 2012; Beegle et al., 2016; UNDP, 2016; OECD, 2018; Salvuci and Tarp, 2021; Ghomi, 2022).

Several of these surveys were harmonized by the Economic Research Forum (Egypt's 2012-2013, 2015, 2017-2018 HIECSs; Iraq's 2007 and 2012 IHSESs; Jordan's 2010-2011, and 2013-2014 HIESs; Palestine's 2009 and 2011 PECSs; and Tunisia's 2005 and 2010 NSHBCs. The most recent surveys for Egypt (2019-2020), Palestine (2016-2017), Tunisia (2015 and 2021), and the Mauritanian EPCVs were obtained from national statistical agencies CAPMAS, PCBS, INS and ONS, respectively. We implemented careful harmonization of these surveys with the previous survey years and translated the variables from Arabic or French to English.

We present the poverty lines for the six countries in Tables A.2-A.7 (Appendix A), compiling them from official sources and World Bank publications. We used region-specific poverty lines within each country to account for spatial differences in consumption (expenditure) patterns and price levels. Since our focus is on poverty analysis, we used consumption values and national poverty lines in local currency units and in survey-year prices to sidestep conversion issues (e.g., with the PPP or market exchange rates) and adjustment for inflation.

3.2. Living-standards indicator

Expenditure is widely regarded as a better indicator of permanent income when households, particularly in poorer countries, exercise consumption smoothing and use savings to augment unstable incomes due to seasonal or informal employment or unexpected shocks (Deaton, 1997; Deaton and Zaidi, 2002; Mancini and Vecchi, 2022). We use household consumption expenditures per capita as the welfare measure underlying poverty analysis.⁸ This includes all monetary

⁷ We were able to do this for all countries in our sample except for Jordan. According to DOS reports, Jordan's Department of Statistics (DOS) did not publish region-specific poverty lines and used a single poverty line for all of Jordan in 2010 and 2013. Jordan's DOS does not publish region-specific Consumer Price Indices so we were unable to take spatial price differences into consideration.

⁸ This is also the most common approach employed in recent studies of poverty in countries in the Middle East (Marotta *et al.*, 2011; CAPMAS, 2013).

expenditures on consumer goods and non-monetary consumption, such as imputed rents, use-value of durables, own production and in-kind transfers (i.e., gifts) received by households. Food consumption includes food that the household has purchased, grown and received from other sources. Non-food consumption is the sum of expenditure on all non-food items, including expenditure on fuel, clothing, schooling, health and miscellaneous items, and in-kind transfers.

It can be useful to ensure comparability of household expenditures across different contexts to account for potential differences in households' age and size compositions, as well as economies of scale in consumption. Studies have examined individual-level, rather than household-level, consumption to better disaggregate expenditures by gender (Dunbar *et al.*, 2013; De Vreyer and Lambert, 2021). Unfortunately, the available surveys provide data on household consumption aggregates rather than individual-level consumption; therefore this approach cannot be applied to the available data.

Another approach is to calculate the Adult Equivalent Expenditure (AEE) (or income) for each household, which gives smaller weight to children than adults and takes economies of scale into consideration. For example, Deaton and Paxson (1998) suggest using a parametric form of an equivalence scale, where a child is assumed to require a fraction α of what an adult needs, and where the elasticity of needs with respect to adjusted household size is a constant δ . This gives rise to the following formula

$$y_{ij}^* = \left(\frac{y_{ij}}{(a_{ij} + \alpha k_{ij})^{\delta}}\right) \tag{4}$$

where y_{ij}^* is the AEE for household i in survey j, which is an adjusted version of household expenditure conditional on the number of adults a_{ij} and children k_{ij} (we suppress the country and FHH type indexes for less cluttered notation). The smaller α is, the smaller the relative weight of

children; the higher is δ , the smaller the degree of economies of scale assumed. We construct several different AEE levels for each household based on this method, using different values for the weight of children (α) and degree of economies of scale (δ) and show the results in Figure D.1, Appendix D. The relationship between household size and poverty dynamics reveals varying scenarios for FHHs, with FHHs generally having a higher likelihood of escaping poverty than non-FHHs when assessing consumption on a per capita basis. 10

3.3. Descriptive statistics

Table 1 presents some key sample statistics on the prevalence of FHHs defined according to our proposed typology (Section 2.1) across the six Arab countries and different (survey) years. The four main types of FHHs are shown in bold while the alternative sub-types are shown in regular font. The shares of self-reported FHHs remain relatively stable over time in most countries, except for Mauritania. In recent years, this share hovers from around 10 percent (Iraq, Palestine) to 13 percent (Jordan) and 18 percent (Egypt, Tunisia). Mauritania has the largest share of self-reported FHHs, which has almost doubled from 18.9 percent in 2004 to 36.6 percent in 2019. The shares of majority-female-adult FHHs are significantly higher in all countries, ranging from 21 percent (Egypt) to 44 percent (Mauritania) in the most recent years. Potential FHHs are as prevalent as those identified by self-reporting in all the countries except Iraq, where they are half as prevalent. Finally, most-educated-female-adult FHHs have relatively low prevalence rates, ranging from around 6 percent in Iraq to 25 percent in Mauritania. There is a weak-to-medium

⁹ When $\delta = 1$ and $\alpha = 1$, we have per capita expenditure, which assumes no economies of scale and an equal weight for children and adults in the household.

¹⁰ These results are consistent with Abanokova *et al.* 's (2022) finding regarding the sensitivity of income dynamics to scale parameters, showing persistent upward mobility when income is evaluated on a per capita basis for Russia.

¹¹ These shares are lower than the corresponding figure of 26 percent for African households observed in Milanzo and van de Walle (2017).

correlation among the four FHH types (i.e., ranging from 0.27 to 0.51; Appendix A, Table A.8), suggesting that each of the proposed FHH types captures different information about female headship.

Compared with the main four types, the alternative subtypes all provide lower-to-almost-negligible prevalence of FHHs. For example, under the self-reported FHH type, while *de jure* FHHs account for between 8 percent and 17 percent of households for all countries and years, the corresponding figures for married FHHs are between 1 percent and 4 percent for all the countries, except for Mauritania in 2008 and later years. Under the majority-female-adults FHH type, the sub-type majority-employed-female-adult FHHs, however, yield a much smaller group of FHHs (ranging from around one-half to two-thirds as small). This is expected given the very low female LFP rates in the region, especially in such countries as Iraq and Jordan where they are among the lowest globally.

Figure 2 illustrates the trends in poverty headcount ratios by country for the four main types of FHHs against those of the whole population for each country. This figure shows that different FHH types display clear differences regarding poverty levels and trends. Specifically, while potential FHHs (purple line) show faster poverty decreases in Iraq, Jordan, Palestine, and Tunisia, most-educated-female-adult FHHs (pink line) show slightly opposite trends from those of the whole population for Iraq. This contrasts with self-reported FHHs (green lines) and potential FHHs, which predominantly have less poverty than the whole population for almost all the country-year observations.¹²

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¹² Pooling data for all years and countries, we further show the FHH–non-FHH poverty differences for all FHH types and by the number of children in households in Figures A.2 and A.3 (Appendix A). These figures indicate that the self-reported and potential FHH types tend to have less poverty than non-FHH households across most years and countries, but the relationship between the number of children and poverty varies across countries.

For each country, Figure 3 and Figure 4 present the poverty differences between FHHs and non-FHHs for the four main FHH types respectively by year and by the number of children (age 0-14). Figure 3 indicates that the self-reported and potential FHH types typically have lower poverty ratios than non-FHH households across most years and countries. However, majority-female-adult FHHs tend to be poorer than the respective non-FHHs in most years and countries, except in Egypt 2017–2020. Most-educated-female-adult households have systematically more poverty prevalence than the corresponding non-FHHs in Iraq, Jordan, Palestine and Tunisia, but less poverty prevalence in Egypt and Mauritania. Figure 4 shows that the presence of children is positively associated with poverty prevalence among FHHs for most of the countries, except for Egypt and Mauritania.

4. Estimation Results

4.1. Cross-sectional poverty

Table 2 provides the estimation results for the associations between four main FHH types and poverty (γ_h in Equation (1)), without and with the household employment, demographic characteristics and residence-area variables shown respectively in the first four columns and the second four columns (Appendix A, Table A.10 offers the full results). Several interesting results stand out.

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¹³ Table A.9 (Appendix A) provides cross-sectional poverty rates for different household types over time in six countries. Panels B and C additionally report these poverty rates for rural and urban subgroups, and Panels D and E report the poverty rates for households with children under 14 and without children under 14. Poverty rates are typically higher in rural area than in urban areas, except for Palestine, and higher for households with younger children. Given the consistently high poverty rates among FHHs defined by the share of women among adults, we also assess the poverty rates among self-reported MHHs according to the number of female adults present in Figure A.1 (Appendix A). Poverty almost always increases with the number of females in all six countries, validating the central finding from Figure 3.

First, the estimated $\hat{\gamma}_h$ is negative and strongly statistically significant for three FHH types: self-reported, potential, and most-educated-female-adult FHHs, suggesting that these three FHH types are associated with less poverty prevalence. Majority-female-adult FHHs, in contrast, are associated with more poverty. This is generally consistent with our earlier discussion for Figure 3, indicating that these types of FHHs can serve as useful definitions.

Second, the absolute magnitude of $\hat{\gamma}_h$ increases for self-reported and most-educated-female-adult FHHs but decreases for majority-female-adult and potential FHHs when the control variables are added. The t-tests for these changes are statistically significant. This suggests that, consistent with our earlier discussions of the literature (Sections 2.1 and 2.2), FHHs' exposure to poverty is also affected by the control variables, including household employment, demographic characteristics, and residence area variables. Indeed, prior research for various countries suggests that FHHs are not systematically poorer or more vulnerable (Fuwa, 2000; Klasen *et al.*, 2015; Munoz Boudet *et al.*, 2018; Brown and Van de Walle, 2021). Liu *et al.* (2017) find that in eight of 14 Latin American countries, FHHs more likely live in poorer conditions, but these gaps either disappear or reverse when controling for other household and demographic characteristics.

Table 2 shows that self-reported FHHs are about 1 percent (without control variables) to 4 percent (with control variables) less likely to be poor than non-FHHs if there are no children in the household. The corresponding changes are about 3 percent (without control variables) to 2 percent (with control variables) for potential FHHs, and 1 percent (with control variables) for most-educated-female-adult FHHs. However, majority-female-adult FHHs are 5 percent (without control variables) to 3 percent (with control variables) more likely to be poor than non-FHHs if there are no children.

Finally, the estimated interaction term between FHH types and the number of children $(\hat{\theta}_l)$ is positive for three of the four FHH types (self-reported, potential, and most-educated-female-adult FHHs), but negative for majority-female-adult FHHs. While the absolute magnitudes of $\hat{\theta}_h$ are small, around 1 percent (i.e., one more child is associated with a 1-percent change in the probability of the household being poor), it is strongly statistically significant. Furthermore, when we fix the number of children at the mean of the estimation sample (i.e., 1.81 children), self-reported FHHs become 1 percent more likely to be poor (without control variables) and 3 percent less likely to be poor (with control variables). The corresponding probabilities, without and with control variables, become 2.5-2.8 percent more likely to be poor for most-educated-female-adult FHHs and 4-0.7 percent more likely to be poor for majority-female-adult FHHs. However, potential FHHs are 0.2 percent (without control variables) less likely to be poor and are 0.3 percent (with control variables) more likely to be poor. In addition, having more children (or larger household sizes) is associated with greater poverty risks (Appendix A, Table A.10). This result concurs with the finding by Munoz Boudet et al. (2018) and Munoz Boudet et al. (2021) that adult couple households with children are the largest and overrepresented group among poor households. This provides supportive evidence for our proposed typology that considers children when defining FHH types.

The five remaining FHH subtypes offer qualitatively similar results, showing that most FHH types are associated with less poverty, except for majority-employed-female-adult FHHs where the opposite result holds (Appendix A, Table A.11). This table also shows the interaction terms between FHH types and the number of children, which are mostly statistically significant. The results using the alternative logit model are qualitatively similar, albeit somewhat weaker for the

most-educated-female-adult FHHs (Appendix A, Tables A.12 and A.13).¹⁴ We further consider the overlaps of three main FHH types (self-reported, potential, and most-educated-female-adult FHHs) and all four main FHH types and show the estimation results in Appendix A, Table A.14, which remain qualitatively similar.

4.2. FHH poverty dynamics based on synthetic panels

We turn next to discussing the results on poverty dynamics based on synthetic panels. For each country, Figure 5 reports the conditional upward mobility rates in the second survey year for the four main FHH types, considered separately with and without any children (Equation (3)). Figure 5 shows considerable (conditional) upward mobility at the national average level (dashed line) for some countries. In particular, the upward mobility rate is 45 percent in Iraq during 2007-2012 (i.e., 45 percent of the initial poor in the first year escape poverty in the second year), 54 percent in Jordan during 2010-2013, and 41 percent in Mauritania during 2014-2019. Still, a significant degree of immobility exists in Egypt, Palestine and Tunisia, where most of the population remained poor in both years and only about one-third (or less) of the poor escaped poverty in the most recent year: 29 percent for Egypt during 2017–2020, 31 percent in Palestine during 2011–2017, and 21 percent in Tunisia during 2015–2021. Is

Unsurprisingly, non-FHHs have upward mobility rates that are almost the same as the national averages, given their large shares in the population (Table 1). But interestingly, FHHs without

¹⁴ The estimated marginal effects for the interaction terms with children are qualitatively similar (using the Stata command "ginteff" (Radean, 2023)).

¹⁵ The survey period lengths generally differ for the six countries so the estimated mobility rates are not exactly comparable across countries or to those in other studies. For a rough reference, Dang and Ianchovichina (2018) obtain a regional upward mobility rate around 52 percent in the early 2000s and 2010s. However, if we assume a similar rate of change for mobility across the years for all countries, we can obtain the average mobility per year for each country (Appendix A, Table A.15).

children are most likely to experience upward mobility. Out of 24 FHH types across six countries, the probabilities of FHHs without any children escaping poverty are higher than the national averages in 22 cases. The exceptions are self-reported and potential FHHs in Jordan during 2010-2013, which have similar upward mobility rates as the national average. However, FHHs with children have upward mobility rates that are clearly higher than the national averages in five cases (self-reported, majority-female-adult, and most-educated-female-adult FHHs in Egypt during 2017-2020, and self-reported FHHs in Iraq during 2007-2012 and in Mauritania during 2014-2019) and clearly lower than the national averages in six cases (self-reported, majority-female-adult, and most-educated-female-adult FHHs in Jordan 2010-2013 and Tunisia 2015-2021). FHHs with children have similar upward mobility as the national averages for the remaining cases. Overall, across all countries and four main FHH types, the upward mobility rates for FHHs without children, FHHs with children, and non-FHHs are respectively 42 percent, 37 percent, and 36 percent.

Figure 6 plots the conditional downward mobility (i.e., falling into poverty in the second year when being initial non-poor in the first year). The results are consistent with those shown in Figure 5, with FHHs without children experiencing the least downward mobility, followed by FHHs with children and non-FHHs. Overall, the downward mobility rates for FHHs without children, FHHs with children, and non-FHHs are respectively 14 percent, 17 percent, and 19 percent.

As an alternative to Figure 5, we plot the results of locally weighted regressions of upward mobility on the number of children (Appendix A, Figure A.3). This figure also shows that the number of children is negatively associated with upward mobility for most countries and FHH types. The results for other sub-types of FHHs are qualitatively similar, with FHHs without children having the most upward mobility (Appendix A, Figure A.4). The results for preceding

years are however, somewhat mixed. FHHs without children had the strongest upward mobility for Egypt and Tunisia, but had similar upward mobility as FHHs with children for Mauritania and Palestine (Appendix A, Figures A.5-A.8). Finally, we plot the results for upward and downward mobility for FHH types, with and without children considered together, in Figures A.9 and A.10 (Appendix A). These figures show that FHHs have higher upward mobility and lower downward mobility than MHHs across all FHH types and countries, except for Jordan.¹⁶

5. Conclusions and policy implications

The dramatic events of the Arab Spring and the following decade of structural reforms and sectoral developments *inter alia* have brought to the fore the importance of better understanding gender inequalities. We offer new analysis on the feminization of poverty as related to FHHs, using 20 survey rounds spanning the past two decades for six countries across the Arab region—namely Egypt, Iraq, Jordan, Mauritania, Palestine and Tunisia—an understudied set of countries. We propose and evaluate a new typology of FHHs consisting of four main types (and several subtypes) of FHHs with a new focus on the presence of children, which offers policy-relevant insights regarding the trends and dynamics of poverty feminization. We assemble and harmonize the available cross-sectional data and construct synthetic panels to address the lack of actual panels.

We find that different FHH types display clear differences regarding poverty levels and trends. In particular, self-reported FHHs, potential FHHs, and most-educated-female-adult FHHs are less likely to be poor than non-FHHs for the six countries, while the opposite holds for majority-female-

¹⁶ While Milazzo and Van de Walle (2017) find self-reported FHHs to be generally poorer, they also find these households to contribute more to the overall decline in poverty in Africa.

adult FHHs. Yet, more children are associated with more poverty for the former three types of FHHs and less poverty for the last type of FHHs.

We also find considerable (conditional) upward mobility, ranging between 21 and 54 percent of the initially poor in a country. But country heterogeneity exists, with Iraq, Jordan, and Mauritania having relatively more upward mobility, while Egypt, Palestine and Tunisia have relatively less upward mobility. While most types of FHHs more likely experience upward mobility out of poverty (or less likely fall into poverty), FHHs without children have the strongest upward mobility (or the least downward mobility), followed by FHHs with children, and non-FHHs.

Our proposed typology aligns with recent calls to go beyond identifying headship based on the gender of the head alone. For example, Beegle and van de Walle (2019) argue that since many women live in MHHs, especially in Sub-Saharan Africa, if resources are unequally shared among household members, simply comparing FHHs and MHHs based on heads' gender can provide biased results. Summarizing opinions from experts on gender issues and survey design on the topic, Buvinic and van de Walle (2019) similarly call for other definitions based on other household characteristics including demographic and gender composition. Other concerns were also raised about practical survey challenges with headship (e.g., when the male head temporarily lives away from the household).

These discussions do not just serve academic purposes but have practical policy implications. Governments in the region strive to identify various vulnerable FHHs for effective social-protection interventions aimed at targeting vulnerable groups and reducing gender inequalities. For example, Egypt's largest poverty-targeting cash-transfers program, Takaful, uses proxy means testing to target households and the criteria include a much lower threshold for FHHs. In 2017, the

poverty threshold used to determine eligibility was raised considerably for MHHs while it was kept constant for FHHs (ESCWA, 2021), resulting in the share of beneficiaries who were FHHs almost doubling from 48% to 92%. In Jordan, the National Aid Fund targets several categories of "vulnerable" FHHs such as widows with children, those without "support", and divorced female heads, not just poor FHHs, while its poverty-reduction program directly targets poor FHHs (NAF, 2020; ESCWA, 2021; World Bank, 2022). In Lebanon, and Tunisia, FHHs, especially widows, are also prioritized (Nasri, 2020; ESCWA, 2021).

Against this background, our findings offer highly relevant policy inputs and run against the conventional wisdom that FHHs are typically poorer than non-FHHs, which appears to be the implicit assumption underlying many targeting programs in the region and elsewhere. In contrast, we find majority-female-adult households or households with more children more vulnerable to (remaining in) poverty. While these results suggest that female headship definition using gender composition can offer an alternative approach—and potentially help identify a more vulnerable group—for poverty targeting, they also highlight the need for a more nuanced understanding of how female headship can be defined, especially in the presence of children. Furthermore, we also need to better understand the extent to which the different types of FHHs' exposure to poverty can change, depending on various other factors such as whether we examine households' static or dynamic poverty status, whether other household demographic and employment characteristics are considered, and last but not least, the country-specific contexts.

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Table 1. Share of Female-Headed Households in Six Arab Countries (percentages)

•	Egypt			Iraq		Jordan		Mauritania			Palestine			Tunisia						
	2012	2015	2017	2020	2007	2012	2010	2013	2004	2008	2014	2019	2007	2009	2011	2017	2005	2010	2015	2021
Type 1. Self-reported FHH	17.80	17.86	18.43	17.59	11.30	9.63	13.88	13.24	18.92	31.30	30.19	36.58	9.12	10.00	11.07	10.05	17.01	14.85	16.24	18.52
	1,346	2,104	2,265	1,967	1,906	2,531	402	669	1,860	4,273	3,033	3,654	108	388	505	397	2,128	1,704	4,088	3,153
Official FHH	13.98	14.96	15.92	14.03	10.43	8.22	11.29	11.05	16.89	18.90	17.23	16.98	8.26	8.79	9.93	8.04	13.73	11.95	14.12	16.62
	1,058	1,741	1,956	1,599	1,721	2,152	335	592	1,674	2,688	1,839	1,834	97	341	447	308	1,671	1,347	3,462	2,788
Never married	0.48	0.37	0.48	0.59	0.46	0.20	0.89	0.89	0.44	0.45	0.50	0.60	0.59	1.07	1.09	0	1.01	0.56	1.29	1.51
	35	43	57	67	<i>78</i>	101	17	43	44	67	48	72	7	45	56	0	113	65	282	261
Divorced/ separated	0.95	1.33	1.55	1.80	0.78	0.62	0.51	0.66	6.15	6.98	6.22	6.64	0.99	0.65	1.14	0.82	1.28	1.18	1.53	1.90
	74	153	194	210	120	175	19	33	602	974	660	690	11	25	43	29	156	131	360	291
Widow only	12.56	13.26	13.89	11.64	9.19	7.40	9.90	9.50	10.29	11.47	10.52	9.74	6.68	7.07	7.70	7.22	11.44	10.21	11.29	13.21
	949	1,545	1,705	1,322	1,523	1,876	299	516	1,028	1,647	1,131	1,072	79	271	348	279	1,402	1,151	2,820	2,236
Married FHH	3.80	2.89	2.52	3.53	0.87	1.41	2.58	2.19	1.92	12.20	12.96	18.45	0.87	1.22	1.14	2.01	3.28	2.90	2.12	1.91
	287	363	309	365	185	379	67	77	176	1,558	1,194	1,714	11	47	58	89	457	357	624	365
T 2 51 6 6 1 114 0 5	22.96	22.29	22.46	20.87	24.02	28.92	25.80	22.80	31.50	40.40	39.98	43.96	21.52	19.53	20.97	24.28	29.20	28.98	26.17	27.21
Type 2. Share of female adults>0.5	1,712	2,659	2,797	2,352	4,547	6,525	728	1,105	3,075	5,606	3,897	4,393	265	751	919	955	3,710	3,363	6,907	4,740
Share of employed females> share of	5.42	6.22	6.12	6.02	4.81	3.81	6.02	7.56	11.40	12.90	14.30	14.68	7.65	6.72	6.54	4.59	10.94	9.01	10.17	11.04
employed males	406	733	757	660	916	1,070	178	291	1,056	1,888	1,422	1,454	88	269	300	176	1,313	987	2,382	1,854
Type 3. Potential FHH	16.68	16.49	19.37	18.86	5.73	3.59	13.25	12.78	17.01	27.09	25.02	27.88	11.09	10.35	10.55	9.88	18.30	17.54	18.13	26.75
	1,244	1,935	2,344	2,087	1,007	1,621	359	576	1,643	3,694	2,345	2,824	127	398	482	397	2,280	1,974	4,609	4,618
Core FHH	3.06	3.17	3.49	3.75	1.65	0.86	2.52	3.52	7.07	8.07	9.68	9.12	3.04	2.34	2.84	1.82	5.07	4.11	4.27	5.67
	229	364	419	407	283	388	77	129	635	1,160	939	912	34	97	130	74	620	457	1,022	947
	11.77	11.70	14.05	13.10	4.00	2.61	12.02	10.90	14.85	24.30	22.63	24.67	9.24	8.76	8.52	N.A.	15.56	15.55	15.22	N.A.
Asset FHH	881	1,459	1,765	1,489	783	1,258	321	510	1,417	3,287	2,095	2,523	106	338	402	N.A.	1,967	1,769	4,037	N.A.
Type 4. Most educated adult member	12.92	13.88	14.30	13.98	8.54	5.87	18.49	18.48	8.76	16.47	13.83	24.67	16.87	15.25	14.82	11.52	15.42	17.75	17.84	20.11
is female & no employed males	951	1.610	1.749	1.554	1.485	1.990	499	932	969	2,384	1.378	2.490	201	595	643	419	1.936	2.024	4.479	3,520

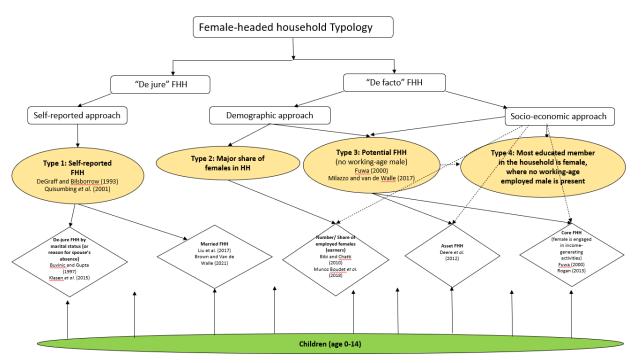
Note: The main definitions of female-headed households are in bold, and the variant definitions are in regular font. The numbers in bold refer to the percent of the cross-sectional sample for each period. The numbers in *italics* refer to the sample size of each group. Type 1 *self-reported FHHs* are obtained from self-reporting information in the survey questionnaires. Type 2 *majority-female-adult FHHs* are defined as households where the proportion of females among (working age) adults exceeds 0.5. Type 3 *potential FHHs* are those households where there are no working-age males present. Type 4 *most-educated-female-adult FHHs* consist of households with no employed males, whose most educated adult member is female. Under Type 1 FHHs, the different sub-types are defined as in the survey questionnaires. Under Type 3 FHHs, sub-type 3 *core FHH* encompasses only the potential FHHs with employed females, and sub-type 3 *asset FHH* encompasses only households with females who have ownership rights over the dwellings they reside in.

Table 2. Probabilities of Being Poor

		Specific	ation 1		Specification 2						
	FHH Type 1	FHH Type 2 Majority-female-	FHH Type 3	FHH Type 4 Most-educated-	FHH Type 1	FHH Type 2	FHH Type 3	FHH Type 4 Most-educated-			
	Self-reported	adult	Potential	female-adult	Self-reported	Majority-female-adult	Potential	female-adult			
Self-reported FHH	-0.007*** (0.00)				-0.044*** (0.00)						
Self-reported FHH # Number of children	0.008*** (0.00)				0.006*** (0.00)						
Share of female adults>0.5		0.052*** (0.00)				0.032*** (0.00)					
Share of female adults>0.5# Number of children		-0.007*** (0.00)				-0.014*** (0.00)					
Potential FHH			-0.027*** (0.00)			-0.017*** (0.00)					
Potential FHH# Number of children			0.014*** (0.00)			0.011*** (0.00)					
Educated females				0.002 (0.00)				0.006** (0.00)			
Educated females# Number of children				0.013*** (0.00)			0	.013*** (0.00)			
Household head's											
characteristics	N	N	N	N	Y	Y	Y	Y			
Household characteristics	N	N	N	N	Y	Y	Y	Y			
Country FE	Y	Y	Y	Y	Y	Y	Y	Y			
Survey year FE	Y	Y	Y	Y	Y	Y	Y	Y			
N	214931	214931	214931	214931	211069	211069	211069	211069			

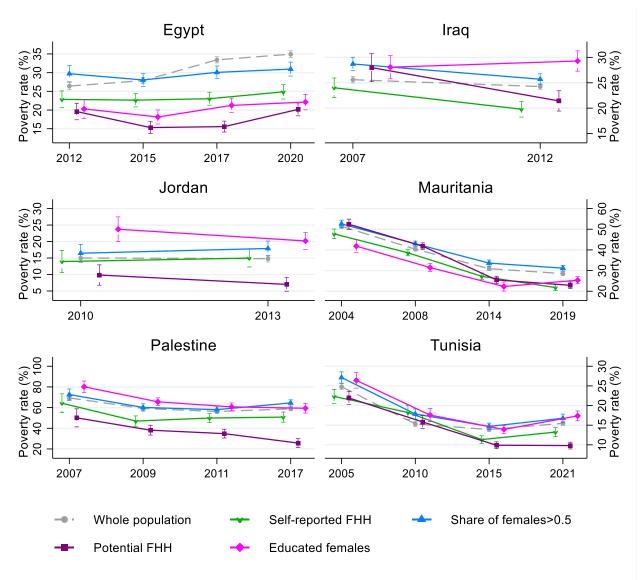
Note: ***, **, and * denote statistical significance at the 0.01, 0.05, and 0.10 levels. Robust standard errors are in parentheses. The full regression results using the linear probability model are provided in Appendix A, Table A.10.

Figure 1. Diagram of FHH Types



Note: Solid line and dashed line respectively indicate direct and indirect relationship. Some studies are shown for illustrative purposes and do not represent an exhaustive list.

Figure 2. Cross-sectional Headcount Poverty Rate (percentage), by Household Type, Regional Poverty Lines



Note: Population sampling weights are applied.

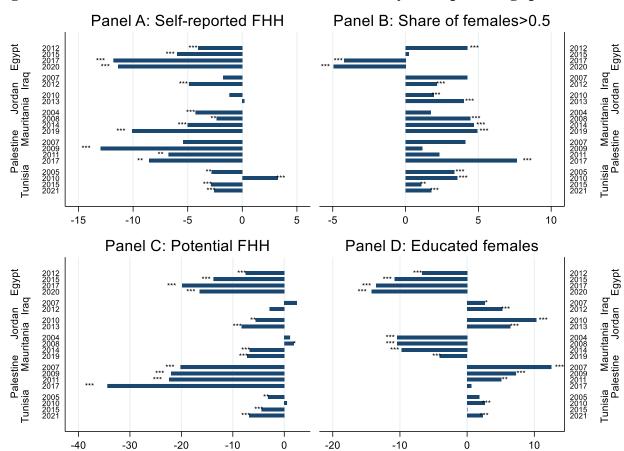
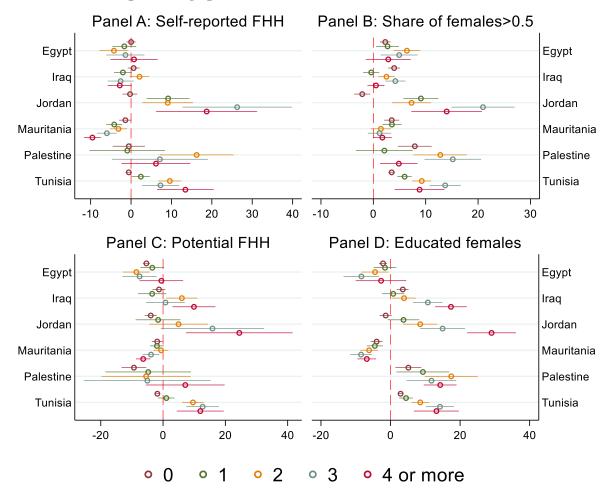


Figure 3. FHH–non-FHH Differences in Headcount Poverty Rate (percentage points)

Note: Headcount poverty rates are estimated using per capita household expenditures. Stars indicate significantly higher headcount poverty ratio between FHHs and non-FHHs in each category. ***, **, and * denote statistical significance at the 0.01, 0.05, and 0.10 levels. Negative difference means FHHs are less likely to be poor.

Figure 4. Differences in Headcount Poverty Rate for FHHs vs. non-FHHs by Number of Children under 14 (percentage points)



Note: Authors' calculation based on pooled cross section. Headcount poverty rates are estimated using per capita household expenditures. The number of children are shown for 0, 1, 2, 3, and 4 or more children. The headcount poverty rates are shown on the x-axis, with positive numbers indicating more poverty for FHHs. The error bars are the 95% CIs.

Figure 5. Probabilities of Female-Headed Households Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage)

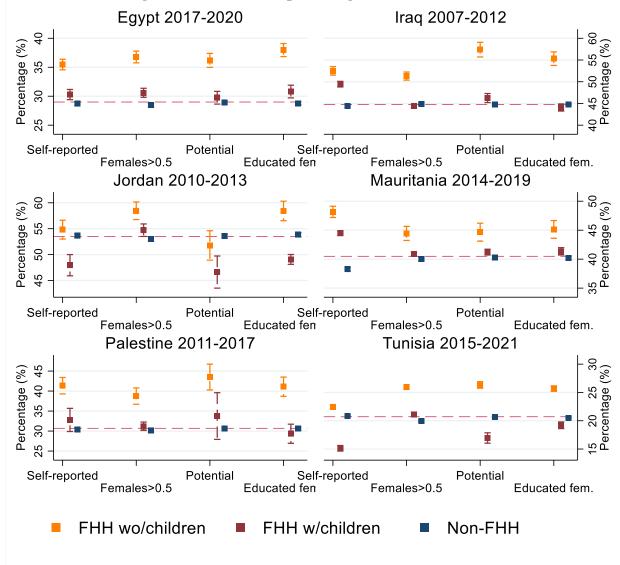
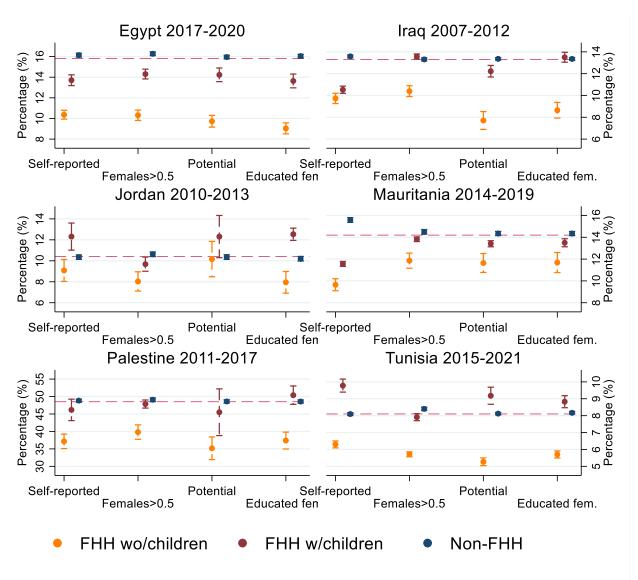


Figure 6. Probabilities of Female-Headed Households Falling in Poverty in Second Year Conditional on Being Non-poor in First Year (percentage)



Appendix A: Additional Tables and Figures

Table A.1. Overview of the key studies

	Studies	Country	FHH	Reference	Conclusions
		J 2 22222 J	definition	group	
			Self- reported FHH	Self- reported MHH	FHHs have lower income, land ownership, and average level of education than MHHs and are less likely to be employed (with fewer hours if employed). Children of FHHs are significantly less likely to be enrolled in school than children of MHHs.
1	DeGraff and Bilsborrow (1993)	Ecuador	Self- reported widowed FHH	Self- reported MHH, other self-reported FHH	Widowed or divorced FHHs have higher income and amount of land owned than MHHs but lower children's school enrollment and are less likely to be in school than are children of MHHs and children of other FHHs.
			Self- reported married FHH	Self- reported MHH, other self-reported FHH	Married FHHs have lower income and amount of land owned than MHHs and enrollment rate similar to MHH, but children of married FHHs are significantly less likely to be enrolled in school than are children of MHHs but more likely than widowed FHHs.
2		65 studies on developing countries	Self- reported FHH, de facto, de jure FHH	Self- reported MHH	Thirty-eight studies - FHHs are poorer than MHHs when poverty is measured by (total/per capita/per equivalent) household income and consumption expenditures, access to services, and ownership of land and assets. Fifteen studies - certain types of FHHs are more vulnerable to poverty than others. Eight studies - poverty in FHHs is not higher than in MHH.
			Self- reported FHH	Self- reported MHH	FHHs are similar to MHHs when poverty is measured by per capita expenditure. The difference between FHHs versus non-FHHs does not change if using different poverty indicators.
		a (2000) Panama	Self- reported de jure, de facto FHH	Non-FHH	Widows/divorced/separated FHHs have significantly higher headcount poverty in indigenous areas when poverty is measured by per capita expenditure. FHHs have lower education than non-FHHs
3	3 Fuwa (2000)		Self- reported married FHH, FHH with unmarried partners	Non-FHH	FHHs with unmarried partners have higher headcount poverty ratios in urban and indigenous areas when poverty is measured by per capita expenditure. The result is robust to applying an equivalence scale using alternative poverty measures and poverty lines.
			Potential FHH	Non-FHH	FHHs are not poorer than non-FHHs when poverty is measured by per capita expenditure.
			"Working" FHHs	Non-FHH	FHHs are similar to non-FHHs when poverty is measured by per capita expenditure. FHHs have higher education endowments than non-FHHs, except in indigenous areas.

			core FHH	Non-FHH	FHHs are less poor than non-FHHs when poverty is measured by per capita expenditure.
4	Quisumbing et al. (2001)	10 developing countries	Self- reported FHH, females	Self- reported MHH, males	FHHs and individual females contribute disproportionately to overall poverty in 25-50% of the dataset when headcount poverty is measured by (total/per capita/per equivalent) household income and consumption expenditures and are insensitive to the poverty line. FHHs and individual females are similar to MHHs or males when using stochastic dominance criteria, but they are constantly worse off in Ghana and Bangladesh.
5	Horrell and Krishnan (2007)	Zimbabwe	Self- reported widowed FHH	Self- reported	The income per capita/ adult equivalent is lower in widowed FHHs than in the MHHs.
	(2007)	Self- MH reported de- facto FHH		МНН	The income per capita/ adult equivalent is higher in the de facto FHHs than in the MHHs.
6	Medeiros and Costa (2007)	8 Latin American	FHH, females	MHH, males	Poverty is higher among FHHs, but there is no clear evidence of a recent and widespread feminization of poverty in Latin America. Differences in poverty among FHHs and MHHs increased in Argentina and Mexico, showing specific types of feminization of poverty. The results are robust to different values of poverty lines, the use of equivalence scales, and the distribution of household income.
	countries Self- reported FHH w/o children	Couple HH w/o children	The insignificant increase in poverty indices when comparing FHHs without children to couple-headed HH without children in Bolivia. The rise in poverty indices is significant at 5% when comparing FHHs with children to MHHs with children in Costa Rica.		
7	Deere et al. (2012)	Latin American countries	HHs where women have ownership rights	Self- reported FHHs who have ownership rights	The gender of the household head is a poor substitute for a gendered analysis of asset ownership within and among households since an analysis based on headship tends to underestimate women's ownership of assets.
8	Van de Walle (2013)	Mali	Self- reported widowed FHH Self- reported widowed MHH	Self- reported married FHH Self- reported married MHH	Widowed FHHs have significantly lower consumption per capita than married FHHs, while MHHs do not have any significant differences in per capita consumption between widowed MHHs and married MHHs.
			Self- reported widowed FHH rural	Self- reported widowed FHH urban	Widowed FHH living in rural areas have lower per capita consumption than all other households living in rural areas. The gap between widowed FHHs and other HHs is lower for HHs residing in urban areas.

			Self- reported widowed FHH rural	Self- reported non- widowed FHH rural	Per capita consumption of widowed FHHs is around 12% lower than that of all rural households. The results are robust to using an equivalence scale in measuring consumption.
			Self- reported widowed FHH urban	Self- reported non- widowed FHH urban	Per capita consumption of widowed FHHs is around 6% lower than that of all other urban households. The results are robust to using an equivalence scale in measuring consumption.
9	Rogan (2013)	South Africa	Self- reported de jure FHH, de facto FHH, co- resident FHH	Self- reported MHH	Poverty rates are higher in FHHs than in MHHs, irrespective of how headship is defined.
		Africa	Self- reported de jure FHH, de facto FHH	co-resident FHH	Co-resident FHHs are less poor than other types of FHHs.
			core FHH	non-FHH	FHH has the lowest risk of poverty
			Self-	Self-	No significant differences between FHHs and MHHs were found regarding
			reported FHH	reported MHH	consumption, the probability of shock exposure, or vulnerability to poverty in Thailand or Vietnam.
			Self- reported de- jure FHH	Self- reported MHH	De jure FHHs have lower consumption than MHHs in Vietnam. There are no significant differences between de-jure FHHs and MHHs regarding the probability of shock exposure or vulnerability to poverty in Thailand or Vietnam.
10	Klasen et al. (2015)	Thailand, Vietnam	Self- reported de- facto FHH	Self- reported MHH	De facto FHHs have higher consumption than MHHs in Thailand. There are no significant differences between de-facto FHHs and MHHs regarding the probability of shock exposure or vulnerability to poverty in Thailand or Vietnam.
			Self- reported single, widowed FHH	Self- reported MHH	FHHs with an absent spouse have higher consumption levels than MHHs in Thailand. Single FHH has a lower consumption level than Vietnam. There are no significant differences between FHHs and MHHs regarding the probability of any shock exposure in Thailand or Vietnam. Single FHHs are less vulnerable to poverty in Thailand but more vulnerable to poverty in Vietnam.
11	Liu <i>et al</i> . (2017)	14 Latin American countries	Self- reported married w/o spouse, single, separated,	Self- reported married FHH with spouse	In eight of the 14 countries, FHHs are more likely to live in poor conditions. However, MHHs are in more impoverished conditions than FHHs when married status, urban or rural setting, ownership, and the presence of children are controlled in the regression. Generally, married FHHs with the spouse present are better off than any other category. The worst living conditions are associated with single, separated, divorced, or widowed FHHs.

- 1			widowed		
			FHH	G 16	YY 1 4 4 6 6 7 7 7 7 7 1 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
			Self-	Self-	While the share of FHHs in the population is growing during 1990-2012, poverty
		20	reported	reported	has been falling faster among FHHs. FHHs contributed more to the overall decline
		countries in	FHH	MHH	in poverty despite their smaller overall population share.
12	Milazzo and van de	Sub-	Self-		
12	Walle (2017)	Saharan	reported	Self-	The poverty trends of the various types of FHHs followed different paths across
		Africa	FHH w/o a	reported	countries and periods, with no one type consistently outperforming the others.
		Airica	resident	MHH	countries and periods, with no one type consistently outperforming the others.
			adult male		
			Self-	Self-	
			reported	reported	FHHs have a higher predicted poverty rate than MHHs in urban areas. The factors
			urban FHH	urban MHH	contributing to the poverty differential between FHH and MHH households are
		118) Egypt	with	with	education, employment status, occupation, sector, and region of residence.
13	Alazzawi (2018)		children	children	
13	Alazzawi (2016)	Lgypt	Self-	Self-	EIIIIs have a higher modiated neverty rate than MIIIIs in mysel areas. Education
			reported	reported	FHHs have a higher predicted poverty rate than MHHs in rural areas. Education, employment status, occupation, number of rooms per capita, and region of
			rural FHH	rural MHH	residence are factors that contribute to the poverty differential between FHHs and
			with	with	MHHs
			children	children	MITHS
					Adult couple households with children, children, and other adults (extended
			couple/singl		family) are the most frequent among poor households. Poor and non-poor women
			e females		concentrate in the adult couple household with children. One adult female
	Munoz Boudet et al.	, 71	w/o children		household with children is more prevalent among the poor in Latin America, the
14		developing		other HH	Caribbean, and Sub-Saharan Africa.
	(2018)	countries	Male/female		Poor women live in households with children and with children and earner
			earner with		dependents, where the earner is a single male or a head couple. Single female-
			and w/o		earner households comprise the largest percentage of poor households in Latin
			children		America, the Caribbean, and Sub-Saharan Africa.
			Self-		FHHs have lower poverty rates than MHHs when using per capita welfare
			reported		measures. FHHs are significantly worse than MHH when poverty is measured
	Brown and Van de	43 African	FHH	Self-	using consumption adjusted for economies of scale.
15	Walle (2021)	countries	Self-	reported	
	wane (2021)	countries	reported	MHH	MUUs are necess than married EUUs
			married		MHHs are poorer than married FHHs

Table A.2. Poverty Line, Egypt by Region, in LCU, Per Capita Annual Consumption in Survey Year Prices

		Food	poverty line			Po	verty line	
Region	2012/2013	2015	2017/2018	2019/2020	2012/2013	2015	2017/2018	2019/2020
Urban governorates	2748	4318	6065.3	7071	4320	6141	9280.1	11285
Urban lower Egypt	2484	3835	5667.6	6304	3840	5631	8536.9	9755
Rural lower Egypt	2568	3854	5901.7	6570	3852	5675	8673	10108
Urban upper Egypt	2568	3968	5752.1	6553	3972	5823	8728.5	10225
Rural upper Egypt	2496	3760	5896.5	6484	3756	5694	8865.6	10068
Urban frontier	2736	3990	5924.3	6696	3996	6247	8568.7	10409
Rural frontier	2688	3979	6304.7	7074	3984	5788	8979.3	10788
Total	2568	3921	5889.6	6604	3924	6141	8827	10279

Source: Compiled from various CAPMAS Poverty assessment updates.

Table A.3. Poverty Lines, Jordan, in LCU, Per Capita Annual Consumption in Survey Year Prices

	Food pove	rty line	Poverty lin	e
	2010	2013	2010	2013
Jordan	336	383	814	929

Source: Jordan Department of Statistics: DOS https://jorinfo.dos.gov.jo/Databank/pxweb/en/Poverty/Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_Poverty_P

<u>Table A.4. Poverty Lines, Iraq, in LCU, Per Capita Annual Consumption in Survey Year Prices</u>

	2007	2012
Kurdistan	1212	1709
Baghdad	987	1391
Rest of Iraq	865	1220
Total	1073	1266

Source: World Bank "Poverty Estimates and Trends in Iraq" https://microdata.worldbank.org/index.php/catalog/2334/download/34771

Table A.5. Poverty Lines, Palestine, in LCU, Per Capita Annual Consumption in Survey Year Prices

	Food	poverty line		Po		
	2009	2011	2017	2009	2011	2017
Gaza	567	570	567	712	714	710
West bank	609	632	710	765	792	889
Total	603	620	668	757	776	836

Source: Compiled from various PCBS poverty reports. Spatial deflator provided by PCBS was used to calculate regional poverty lines for Gaza and the West Bank relative to the national poverty line available from PCBS publications.

Table A.6. Poverty Lines, Tunisia, in LCU, Per Capita Annual Consumption in Survey Year Prices

	Fo	od poverty line				Poverty line		_
	2005	2010	2015	2021	2005	2010	2015	2021
Cities (metropolitan)	615	757	1085	1346.526	902	1038	1878	2682.997
Small & medium towns (urban)	596	733	1050.154		818	941	1702.871	
Noncommunal (rural)	466	571	951.668	1529.233	581	669	1500.530	2223.527

Source: World Bank (2016). "Tunisia Poverty Assessment 2015". Table A1.3.

Table A.7. Poverty Lines, Mauritania, in LCU, Per Capita Annual Consumption in Survey Year Prices

	Extreme poverty line			Pove	erty line	
	2004	2008	2004	2008	2014	2019
Total	70400	96000	94650	129000	169445	191000

Source: IMF (2011) Table 1.1.

Table A.8. Correlation between Main Types of Female-Headed Households

	FHH Type 1 Self-reported	FHH Type 2 Majority-female-adult	FHH Type 3 Potential	FHH Type 4 Most-educated-female-adult
FHH Type 1	1.000	0.265***	0.415***	0.298***
		(0.000)	(0.000)	(0.000)
FHH Type 2		1.000	0.319***	0.304***
			(0.000)	(0.000)
FHH Type 3			1.000	0.510***
				(0.000)
FHH Type 4				1.000

Note: ***, **, and * denote statistical significance at the 0.01, 0.05, and 0.10 levels.

Table A.9. Headcount Poverty Rate of Female and Non-female Headed Households by Headship Definition (percent)

_	Egypt (2	2012-2020)	Iraq (2	007-2012)	Jordan (2010-2013)	Mauritania	(2004-2019)	Palestine	(2007-2017)	Tunisia (2005-2021)
<u> </u>	FHH	non-FHH	FHH	non-FHH	FHH	non-FHH	FHH	non-FHH	FHH	non-FHH	FHH	non-FHH
Panel A: All												
Self-Reported FHH	23.32	32.01*	20.22	24.79*	14.46	14.94	29.52	38.03*	50.63	59.70*	16.04	17.34*
Reported de jure FHH	21.51	31.92^{*}	19.24	24.80^{*}	16.08	14.80	29.66	36.80^{*}	48.17	59.73*	13.46	17.57*
Reported married FHH	29.15	31.01	25.96	24.36	7.76	15.03*	28.35	36.73*	62.71	59.10	26.55^*	16.96
Potential FHH	17.41	32.41*	22.28	24.43	8.42	15.35*	31.43	36.80^{*}	35.30	60.18^*	13.46	17.69*
Core FHH	19.53	31.25*	15.41	24.43*	4.16	15.11*	30.47	36.17^*	34.38	59.47*	13.41	17.32*
Asset FHH	16.33	32.05^{*}	21.76	24.42	8.38	15.30*	32.88	36.37*	39.06	59.69*	15.78	17.28*
Share of female adults>0.5	29.62	31.32*	25.94*	23.64	17.15*	14.19	37.36*	34.61	62.04*	58.33	19.10^{*}	16.42
Share of employed												
females>employed males	22.3	31.44*	22.11	24.48*	7.48	15.37*	33.11	36.18*	54.89	59.38*	16.68	17.24
Most educated member is female			*					*	*			
adult & no employed males	20.43	32.11*	29.12^*	24.17	21.87	13.61	27.55	37.22*	64.52*	58.46	18.15*	17.01
Panel B: Rural												
Self-Reported FHH	28.16	37.9*	36.29	35.34	13.20	17.70	32.42	44.98*	45.81	56.02*	23.95	25.50
	25.89	37.69*	34.15		13.20	17.70	32.42	44.98 43.01*	43.81	56.02 56.07*	23.95 18.79	25.85*
Reported de jure FHH				35.45								
Reported married FHH	32.87	36.92*	43.82*	35.28	11.18	17.39	30.16	43.30*	61.12	55.38 56.35*	33.52*	24.98
Potential FHH	22.05	38.24*	38.52	35.33	15.50	17.41	33.14	44.18*	37.66	56.25*	22.28	25.77*
Core FHH	25.67	37.00*	28.11	35.42	1.93	17.50*	34.21	42.46*	37.72	55.73*	22.96	25.41
Asset FHH	20.52	38.07*	38.85	35.34	12.51	17.54	33.88	43.83*	40.33	55.89*	24.28	25.42
Share of female adults>0.5	36.19	36.9	38.08^{*}	33.89	21.37^*	16.00	42.93*	40.94	60.23*	54.05	27.51^*	24.34
Share of employed females>employed males	27.46	37.17*	34.11	35.46	13.03	17.51	39.58	42.13*	59.83	55.11	25.30	25.32
Most educated member is female adult & no employed males	24.25	37.90*	51.45*	34.76	23.55*	16.19	33.68	43.27*	60.50	54.97	28.20*	24.82
Panel C: Urban												
Self-Reported FHH	16.96	23.08*	15.19	18.52*	14.70	14.36	26.68	30.24*	50.17	58.89*	12.29	13.27*
Reported de jure FHH	16.96	22.97*	15.08	18.48*	16.61	14.21	25.75	29.90*	47.92	58.92*	11.59	13.33*
Reported married FHH	16.81	22.39*	15.97	18.20	7.29	14.53*	26.42	29.62*	61.23	58.33	17.25*	13.09
Potential FHH	11.5	23.56*	14.49	18.25*	7.33	14.91*	29.05	29.28	32.54	59.48*	8.69	13.75*
Core FHH	13.47	22.58*	9.54	18.21*	4.43	14.60*	25.24	29.51*	31.97	58.70*	8.68	13.73
Asset FHH	9.11	23.18*	12.56	18.25*	7.72	14.82*	31.32*	28.90	36.09	58.94*	9.64	13.37*
Share of female adults>0.5	21.27	22.61	17.92	18.28	16.24*	13.81	31.12*	27.94	60.55*	57.77	14.40*	12.68
Share of employed												
females>employed males	17.58	22.65*	11.31	18.40*	6.65	14.91*	26.20	29.73*	52.13	58.69*	12.50	13.23
Most educated member is female adult & no employed males	16.40	23.10*	18.57	18.15	21.52	13.06	20.58	30.74*	63.05*	57.76	13.38	13.11
Panel D: Have children under 14												
Self-Reported FHH	35.2	39.33*	22.15	25.99^*	29.00^{*}	18.18	31.91	40.75^*	67.33	64.40	28.70^{*}	22.48
Reported de jure FHH	37.62	39.05	21.27	26.01^*	34.42*	18.11	33.39	39.21*	65.85	64.47	25.84^{*}	22.81
Reported married FHH	31.51	39.24*	26.85	25.66	13.71	18.82	29.33	39.71*	72.35	64.45	33.15*	22.64
Potential FHH	32.83	39.34*	27.84	25.64	25.95^{*}	18.55	33.94	39.50*	59.40	64.60	29.98^{*}	22.55
Core FHH	30.60	39.13*	23.68	25.68	21.68	18.73	32.23	38.93*	48.35	64.63*	25.61	22.89
Asset FHH	32.24	39.24*	28.13	25.65	27.28^{*}	18.55	35.51	39.04*	64.80	64.51	33.36*	22.60
Share of female adults>0.5	40.1	38.72	27.32	24.90	26.82*	16.80	39.83*	37.41	70.08*	63.15	27.90*	21.48
Share of remains addition of states	35.69	39.1*	25.57	25.68	17.43	18.79	35.55	38.89*	67.74	64.38	26.60*	22.68
Most educated member is female	32.09	39.48*	33.62*	25.37	34.47*	16.46	30.61	39.74*	77.00*	63.23	29.63*	22.22
adult & no employed males					÷ ·····							
Panel E: No children under 14												
Panel E: No children under 14 Self-Reported FHH	10.53 10.39	10.52 10.55	6.79	6.15	3.88 4.54	4.13 3.98	12.21 12.76	13.63 13.34	30.83 30.16	31.39 31.50	8.71 8.69	9.28 9.28

Reported married FHH	12.7	10.49	13.20^{*}	6.17	0.00	4.20	9.25	13.42^{*}	36.90	31.19	8.97	9.18
Potential FHH	6.24	11.58^{*}	5.05	6.36	0.81	4.77^{*}	11.70	13.58*	23.57	32.92^{*}	7.74	9.57^{*}
Core FHH	7.59	10.65^*	1.33	6.39^{*}	0.00	4.33*	11.32	13.31	23.75	31.66*	7.38	9.29^{*}
Asset FHH	6.14	11.29^{*}	4.76	6.36	0.68	4.72^{*}	12.19	13.42	25.22	32.03^{*}	8.97	9.21
Share of female adults>0.5	12.16^*	9.89	8.69^{*}	4.83	2.74	4.86^{*}	15.30^{*}	11.80	33.93*	29.72	11.40^{*}	7.91
Share of employed females>employed males	8.79	10.7*	3.09	6.57*	0.47	4.64*	10.29	13.61*	31.32	31.29	10.27*	8.99
Most educated member is female adult & no employed males	8.74	10.90*	9.36*	5.84	3.02	4.41	10.04	14.05*	35.36*	30.23	11.40	8.51

Note: The data are pooled across all available years for each country. Headcount poverty rates are estimated using per capita household expenditures. Stars indicate statistically significant difference in headcount poverty between FHHs and non-FHHs in each category at the 5% or lower level. Population sampling weights are applied.

Table A.10. Probabilities of Being Poor, Linear Probability Model (Main FHH Types)

-	FUU Type 1		ication 1	FHH Type 4	FHH Type 1		ication 2	FHH Type 4
	FHH Type 1 Self-reported	FHH Type 2 Majority-female-adult	FHH Type 3 Potential	FHH Type 4 Most-educated-female-adult	FHH Type 1 Self-reported	FHH Type 2 Majority-female-adult	FHH Type 3 Potential	FHH Type 4 Most-educated-female-adu
Self-reported FHH	-0.007*** (0.00)				-0.044*** (0.00)			
Self-reported FHH # Number of children age 0-14	0.008*** (0.00)				0.006*** (0.00)			
Share of female adults>0.5		0.052*** (0.00)				0.032*** (0.00)		
Share of female adults>0.5# Number of shildren age 0-14		-0.007*** (0.00)				-0.014*** (0.00)		
otential FHH			-0.027*** (0.00)				-0.017*** (0.00)	
otential FHH# Number of children age 0-14			0.014*** (0.00)				0.011*** (0.00)	
ducated females				0.002 (0.00)				-0.006** (0.00)
ducated females# Number of children age 0-				0.013***				0.013*** (0.00)
lousehold head`s characteristics				(0.00)				
lead`s age					-0.001*** (0.00)	-0.001*** (0.00)	-0.001*** (0.00)	-0.001*** (0.00)
lighest education level is primary					-0.066***	-0.064***	-0.064***	-0.065***
ingliest education level is primary					(0.00) -0.123***	(0.00) -0.121***	(0.00) -0.121***	(0.00) -0.121***
ighest education level is secondary					(0.00)	(0.00)	(0.00)	(0.00)
lighest education level is tertiary					-0.178*** (0.00)	-0.176*** (0.00)	-0.176*** (0.00)	-0.176*** (0.00)
Head is married					-0.020*** (0.00)	0.007*** (0.00)	0.005**	0.006*** (0.00)
Head is employed					-0.037***	-0.032***	-0.031***	-0.027***
lousehold characteristics					(0.00)	(0.00)	(0.00)	(0.00)
Jousehold size					0.022***	0.024***	0.023***	0.023***
tousehold size	0.077***	0.081***	0.076***	0.077***	(0.00)	(0.00)	(0.00)	(0.00)
Number of children age 0-14	(0.00)	(0.00)	(0.00)	(0.00)	0.050*** (0.00)	0.054*** (0.00)	0.049*** (0.00)	0.049*** (0.00)
thare of household members age 15-24	(0100)	(4144)	(0100)	(0.00)	-0.008***	-0.008***	-0.008***	-0.009***
nate of household members age 13-24					(0.00)	(0.00)	(0.00)	(0.00)
hare of household members age 60 and older					-0.022*** (0.00)	-0.019*** (0.00)	-0.017*** (0.00)	-0.020*** (0.00)
					-0.084***	-0.084***	-0.084***	-0.084***
Jrban					(0.00)	(0.00)	(0.00)	(0.00)
raq	-0.149***	-0.152***	-0.149***	-0.148***	-0.181***	-0.182***	-0.179***	-0.180***
aq	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
ordan	-0.144*** (0.01)	-0.147*** (0.01)	-0.144*** (0.01)	-0.146*** (0.01)	-0.092*** (0.01)	-0.094*** (0.01)	-0.090*** (0.01)	-0.092*** (0.01)
	-0.155***	-0.160***	-0.156***	-0.158***	-0.207***	-0.208***	-0.213***	-0.212***
Mauritania (1997)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
to Love Cons	0.181***	0.178***	0.181***	0.180***	0.185***	0.183***	0.186***	0.185***
Palestine	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
`unisia	-0.060***	-0.063***	-0.060***	-0.061***	-0.054***	-0.055***	-0.054***	-0.054***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
cons	0.127***	0.112***	0.133***	0.126***	0.312***	0.261***	0.270***	0.267***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)
-2_a	0.16	0.17	0.16	0.16	0.21	0.21	0.21	0.21

Table A.11. Probabilities of Being Poor for Other FHH Types, Linear Probability Model

			Specification 1					Specification 2		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
De-jure FHH	-0.003 (0.00)					-0.027*** (0.00)				
De-jure FHH # Number of children age 0-14	0.00)					0.009*** (0.00)				
Married FHH		-0.031*** (0.01)					-0.058*** (0.01)			
Married FHH # Number of children age 0-14		0.005** (0.00)					0.006** (0.00)			
Employed FHH			0.009** (0.00)					0.008** (0.00)		
Employed FHH # Number of children age 0-14			-0.001 (0.00)					-0.004* (0.00)		
Asset FHH				-0.019*** (0.00)					-0.018*** (0.00)	
Asset FHH # Number of children age 0-14				0.014*** (0.00)	0.000				0.011*** (0.00)	0.0404
Core FHH					-0.023*** (0.00) 0.006**					-0.010** (0.00) 0.007**
Core FHH # Number of children age 0-14 Household head's characteristics					(0.00)					(0.00)
ead's age						-0.001*** (0.00)	-0.001*** (0.00)	-0.001*** (0.00)	-0.001*** (0.00)	-0.001** (0.00)
ighest education level is primary						-0.065*** (0.00)	-0.065*** (0.00)	-0.064*** (0.00)	-0.064*** (0.00)	-0.064** (0.00)
ighest education level is secondary						-0.122*** (0.00)	-0.122*** (0.00)	-0.121*** (0.00)	-0.121*** (0.00)	-0.121** (0.00)
ighest education level is tertiary						-0.177*** (0.00)	-0.177*** (0.00)	-0.176*** (0.00)	-0.177*** (0.00)	-0.176** (0.00)
lead is married						-0.008** (0.00)	0.011*** (0.00)	0.006***	0.006**	0.006**
lead is employed						-0.033*** (0.00)	-0.038*** (0.00)	-0.032*** (0.00)	-0.031*** (0.00)	-0.032** (0.00)
ousehold characteristics						(414.4)	(0.00)	(0.00)	(0100)	()
ousehold size						0.023***	0.023***	0.023***	0.023***	0.023**
	0.077***	0.078***	0.078***	0.077***	0.078***	(0.00) 0.050***	(0.00) 0.050***	(0.00) 0.050***	(0.00) 0.049***	(0.00) 0.050**
umber of children age 0-14	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
	(****)	(4144)	(0100)	(0.00)	(0.00)	-0.009***	-0.008***	-0.009***	-0.009***	-0.009*
hare of household members age 15-24						(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
hare of household members age 60 and older						-0.021***	-0.021***	-0.021***	-0.018***	-0.021**
						(0.00) -0.084***	(0.00) -0.084***	(0.00)	(0.00) -0.084***	(0.00) -0.084**
rban						(0.00)	(0.00)	-0.084*** (0.00)	(0.00)	(0.00)
	-0.149***	-0.150***	-0.149***	-0.149***	-0.149***	-0.181***	-0.182***	-0.181***	-0.180***	-0.181**
aq	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
ordan	-0.145***	-0.145***	-0.145***	-0.144***	-0.145***	-0.091***	-0.093***	-0.093***	-0.090***	-0.092*
nuan	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
fauritania (0.122***	0.123***	0.123***	0.125***	0.124***	0.058***	0.059***	0.059***	0.061***	0.059**
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
alestine	0.181***	0.180***	0.180***	0.180***	0.180***	0.185***	0.184***	0.184***	0.184***	0.184**
	(0.01) -0.060***	(0.01) -0.061***	(0.01) -0.061***	(0.01) -0.060***	(0.01) -0.060***	(0.01) -0.054***	(0.01) -0.054***	(0.01) -0.054***	(0.01) -0.054***	(0.01) -0.054**
unisia	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
cons	0.126***	0.126***	0.125***	0.126***	0.127***	0.289***	0.284***	0.272***	0.268***	0.273**
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
Adjuster R2	0.16	0.16	0.16	0.16	0.16	0.21	0.21	0.21	0.21	0.21
Number of observations	214931	214931	214931	214931	214931	211069	211069	211069	211069	211069

Table A.12. Probabilities of Being Poor, Logit Model

-			ication 1	******			ication 2	******
	FHH Type 1 Self-reported	FHH Type 2 Majority-female-adult	FHH Type 3 Potential	FHH Type 4 Most-educated-female-adult	FHH Type 1 Self-reported	FHH Type 2 Majority-female-adult	FHH Type 3 Potential	FHH Type 4 Most-educated-female-adul
Self-reported FHH	-0.110*** (0.02)		2 0001111111	vacciou remite dunt	-0.290*** (0.03)		2 00000001	canada remait-adul
Self-reported FHH # Number of children age 0-14	0.057*** (0.01)				0.036*** (0.01)			
Share of female adults>0.5	, ,	0.415***				0.323***		
Share of female adults>0.5# Number of children age 0-14		(0.02) -0.072*** (0.01)				(0.02) -0.116*** (0.01)		
Potential FHH		(0.01)	-0.339*** (0.02)			(0.01)	-0.165*** (0.03)	
Potential FHH# Number of children age 0-14			0.124*** (0.01)				0.075*** (0.01)	
Educated females				-0.037 (0.02)				-0.040 (0.03)
Educated females# Number of children age 0- 14				0.086*** (0.01)				0.074*** (0.01)
Household head's characteristics				, ,				
Head's age					-0.009*** (0.00)	-0.009*** (0.00)	-0.007*** (0.00)	-0.008*** (0.00)
W. L					-0.451***	-0.443***	-0.443***	-0.448***
Highest education level is primary					(0.02)	(0.02)	(0.02)	(0.02)
Highest education level is secondary					-0.911*** (0.02)	-0.903*** (0.02)	-0.900*** (0.02)	-0.903*** (0.02)
Highest education level is tertiary					-1.572***	-1.568***	-1.563***	-1.562*** (0.03)
Head is married					(0.03) -0.097***	(0.03) 0.083***	(0.03) 0.059***	0.068***
w 1: 1 1					(0.03) -0.256***	(0.02) -0.213***	(0.02) -0.212***	(0.02) -0.178***
Head is employed					(0.02)	(0.02)	(0.02)	(0.02)
Household characteristics					0.160***	0.167***	0.160***	0.165***
Household size					(0.00)	(0.00)	(0.00)	(0.00)
Number of children age 0-14	0.468*** (0.00)	0.508*** (0.00)	0.456*** (0.00)	0.470*** (0.00)	0.301***	0.338*** (0.01)	0.298***	0.293*** (0.01)
Share of household members age 15-24					-0.092***	-0.095***	-0.095***	-0.100***
Share of household members age 60 and older					(0.01) -0.325***	(0.01) -0.316***	(0.01) -0.286***	(0.01) -0.315***
share of nousehold memoers age of and older					(0.02) -0.614***	(0.02) -0.610***	(0.02) -0.611***	(0.02) -0.611***
Urban					(0.01)	(0.01)	(0.01)	(0.01)
Iraq	-1.072***	-1.106***	-1.065***	-1.070***	-1.441***	-1.457***	-1.422***	-1.429***
naq	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
Jordan	-1.184*** (0.07)	-1.203*** (0.07)	-1.180*** (0.07)	-1.204*** (0.07)	-0.886*** (0.08)	-0.903*** (0.08)	-0.863*** (0.08)	-0.880*** (0.08)
	-1.117***	-1.152***	-1.125***	-1.137***	-1.622***	-1.628***	-1.665***	-1.664***
Mauritania	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
Palestine	0.796***	0.784***	0.797***	0.795***	0.887***	0.880***	0.896***	0.892***
· ucounc	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
Tunisia	-0.468***	-0.481***	-0.466***	-0.473***	-0.438***	-0.445***	-0.433***	-0.434***
cons	(0.03) -1.917***	(0.03) -2.062***	(0.03) -1.861***	(0.03) -1.932***	(0.03) -0.606***	(0.03) -0.975***	(0.03) -0.877***	(0.03) -0.915***
_0010	(0.04)	(0.04)	(0.04)	(0.04)	(0.06)	(0.06)	(0.06)	(0.06)
N	214931	214931	214931	214931	211069	211069	211069	211069

Table A.13. Probabilities of Being Poor for Other FHH Types, Logit Model

			Specification 1					Specification 2		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
De-jure FHH	-0.098*** (0.02)					-0.098** (0.05)				
De-jure FHH # Number of children age 0-14	(0.02) 0.094*** (0.01)					0.059*** (0.01)				
Married FHH		-0.182*** (0.05)					-0.392*** (0.06)			
Married FHH # Number of children age 0-14		0.024 (0.02)					0.029* (0.02)			
Employed FHH		(,	0.036 (0.03)				(***)	-0.135*** (0.05)		
Employed FHH # Number of children age 0-14			-0.002 (0.01)					0.058*** (0.02)		
Asset FHH			(*** /	-0.235*** (0.03)				(,	-0.103*** (0.03)	
Asset FHH # Number of children age 0-14				0.106*** (0.01)					0.056*** (0.01)	
Core FHH				, , , , , , , , , , , , , , , , , , ,	-0.259*** (0.04)				(***)	0.028 (0.03)
Core FHH # Number of children age 0-14					0.060*** (0.02)					-0.016 (0.01)
dousehold head`s characteristics					(0.02)					
Head`s age						-0.008***	-0.009***	-0.008***	-0.008***	-0.008**
·						(0.00) -0.443***	(0.00) -0.449***	(0.00) -0.442***	(0.00) -0.442***	(0.00) -0.442**
lighest education level is primary						(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Echapt advantion level is secondary						-0.902***	-0.909***	-0.900***	-0.900***	-0.901**
Highest education level is secondary						(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Highest education level is tertiary						-1.563***	-1.570***	-1.562***	-1.562***	-1.564**
nghest education to ver is tertially						(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
Iead is married						0.061	0.104*** (0.02)	0.065***	0.065***	0.066**
						(0.04) -0.216***	-0.267***	(0.02) -0.216***	(0.02) -0.210***	(0.02) -0.216**
Head is employed						(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Jousehold characteristics						(010_)	(***-)	(***=)	(***=)	(0.0_)
Jousehold size						0.162***	0.161***	0.163***	0.162***	0.163***
iousenoid size						(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
lumber of children age 0-14	0.470***	0.477***	0.478***	0.465***	0.474***	0.298***	0.303***	0.300***	0.298***	0.303**
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01) -0.099***	(0.01) -0.100**
hare of household members age 15-24						-0.096*** (0.01)	-0.092*** (0.01)	-0.100*** (0.01)	(0.01)	(0.01)
						-0.316***	-0.326***	-0.323***	-0.304***	-0.324**
Share of household members age 60 and older						(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Urban						-0.613***	-0.616***	-0.611***	-0.610***	-0.612**
Jiban						(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
Iraq	-1.077***	-1.081***	-1.079***	-1.071***	-1.076***	-1.434***	-1.446***	-1.436***	-1.432***	-1.441**
1	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
ordan	-1.188*** (0.07)	-1.194*** (0.07)	-1.191***	-1.183***	-1.189*** (0.07)	-0.876***	-0.895***	-0.881***	-0.872***	-0.885** (0.08)
	-1.115***	-1.080***	(0.07) -1.097***	(0.07) -1.098***	-1.091***	(0.08) -1.649***	(0.08) -1.597***	(0.08) -1.647***	(0.08) -1.649***	-1.636**
Mauritania	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
C1 - 2	0.795***	0.794***	0.794***	0.786***	0.795***	0.889***	0.883***	0.889***	0.887***	0.887**
Palestine	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
`unisia	-0.468***	-0.469***	-0.469***	-0.465***	-0.467***	-0.434***	-0.436***	-0.434***	-0.433***	-0.435**
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
cons	-1.923***	-1.935***	-1.943***	-1.926***	-1.927***	-0.849***	-0.781***	-0.866***	-0.888***	-0.871**
	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	(0.07)	(0.06)	(0.06)	(0.06)	(0.06)

Table A.14. Probabilities of Being Poor for Combination of Main Female-Headed Household Types, Linear Probability Model

	Specification 1		Specifi	ication 2
	(1)	(2)	(3)	(4)
Overlap of self-reported FHHs, potential FHHs, and most-educated-female-adult FHHs	-0.037*** (0.00)		-0.033*** (0.00)	
Overlap of self-reported FHHs, potential FHHs, and most-educated-female-adult FHHs # Number of children age 0-14	0.005** (0.00)		0.007*** (0.00)	
Overlap of self-reported FHHs, potential FHHs, majority of females and most-educated-female-adult FHHs		-0.037*** (0.00)		-0.033*** (0.00)
Overlap of self-reported FHHs, potential FHHs, majority of females and most-educated-female-adult FHHs # Number of children age 0-14		0.005** (0.00)		0.007*** (0.00)
Household head`s characteristics				
Head's age			-0.001*** (0.00)	-0.001*** (0.00)
Highest education level is primary			-0.064*** (0.00)	-0.064*** (0.00)
Highest education level is secondary			-0.121*** (0.00)	-0.121*** (0.00)
Highest education level is tertiary			-0.176*** (0.00)	-0.176*** (0.00)
Head is married			0.001 (0.00)	0.001 (0.00)
Head is employed			-0.033*** (0.00)	-0.033*** (0.00)
Household characteristics			(4144)	(4144)
Household size			0.023*** (0.00)	0.023*** (0.00)
Number of children age 0-14	0.078*** (0.00)	0.078*** (0.00)	0.050*** (0.00)	0.050*** (0.00)
Share of household members age 15-24			-0.009*** (0.00)	-0.009*** (0.00)
Share of household members age 60 and older			-0.021*** (0.00)	-0.021*** (0.00)
Urban			-0.084*** (0.00)	-0.084*** (0.00)
Iraq	-0.150*** (0.00)	-0.150*** (0.00)	-0.181*** (0.00)	-0.181*** (0.00)
Jordan	-0.145*** (0.01)	-0.145*** (0.01)	-0.093*** (0.01)	-0.093*** (0.01)
Mauritania	-0.150***	-0.150***	-0.209***	-0.209***
Palestine	(0.01) 0.180***	(0.01) 0.180***	(0.01) 0.184***	(0.01) 0.184***
Tunisia	(0.01) -0.061***	(0.01) -0.061***	(0.01) -0.054***	(0.01) -0.054***
_cons	(0.00) 0.129***	(0.00) 0.129***	(0.00) 0.283***	(0.00) 0.283***
	(0.00)	(0.00)	(0.01)	(0.01)
Adjuster R2 Number of observations	0.16 214931	0.16 214931	0.21 211069	0.21 211069

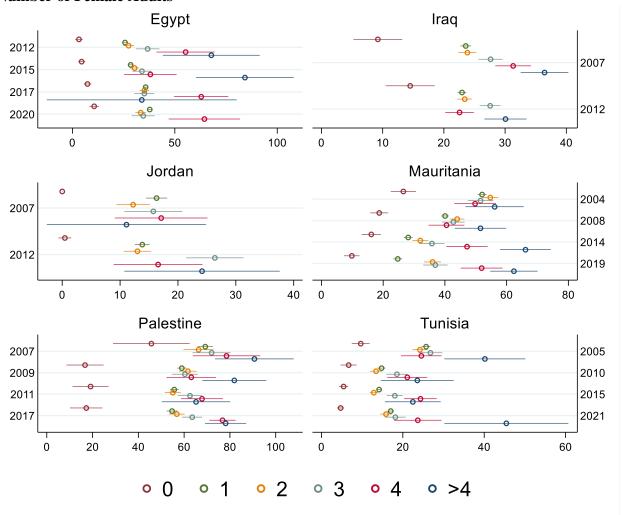
Note: ***, **, and * denote statistical significance at the 0.01, 0.05, and 0.10 levels. Robust standard errors are in parentheses.

Table A.15. Average change for mobility per year between the survey rounds

	Upward mobility (%)	Downward mobility (%)
Jordan (2010-2013)	17.8	3.5
Egypt (2017-2020)	9.7	5.3
Iraq (2007-2012)	9.0	2.7
Mauritania (2014-2019)	8.1	2.8
Palestine (2011-2017)	5.1	8.1
Tunisia (2015-2021)	3.5	1.3

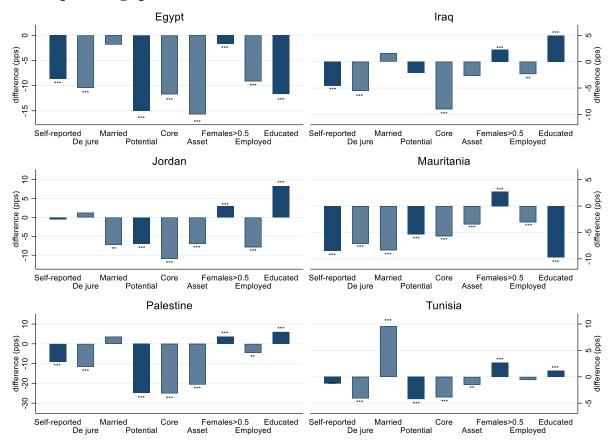
Note: Countries are ranked in a decreasing order of upward mobility.

Figure A.1. Headcount Poverty Rates in Self-Reported Male-Headed Households (%), by Number of Female Adults



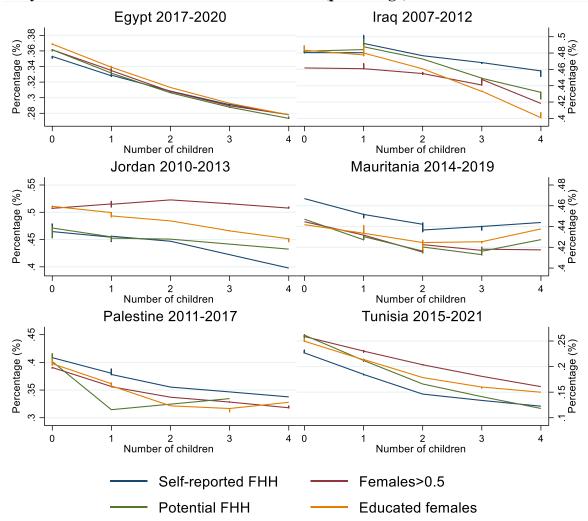
Note: Headcount poverty rates are estimated using per capita household expenditures. The numbers of female adults are shown for 0, 1, 2, 3, 4, and more than 4 adults. The years are shown on the y-axis and the poverty rates are shown on the x-axis.

Figure A.2. FHH–non-FHH Differences in Headcount Poverty Rate in MENA, Pooled Cross Sections (percentage points)



Note: Authors' calculation based on pooled cross sections. The four main types of FHHs are shown in darker color, the five sub-types of FHHs are shown in lighter color. The headcount poverty rate is applied to per capita household expenditures, of FHHs versus the rest of the households. Stars indicate statistically significantly higher headcount poverty ratio between FHHs and non-FHHs in each category. ***, **, and * denote statistical significance at the 0.01, 0.05, and 0.10 levels respectively.

Figure A.3. Correlation Between Probabilities of Female-Headed Households Escaping Poverty in Second Year and Number of Children (percentage)



Note: Estimates are obtained with synthetic panel data and weighted with population weights where the second survey round is used as the base year. Household heads' ages are restricted to 25-55 for the first survey round and adjusted accordingly for the second survey round.

Figure A.4. Probability of Other FHH Types Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage)

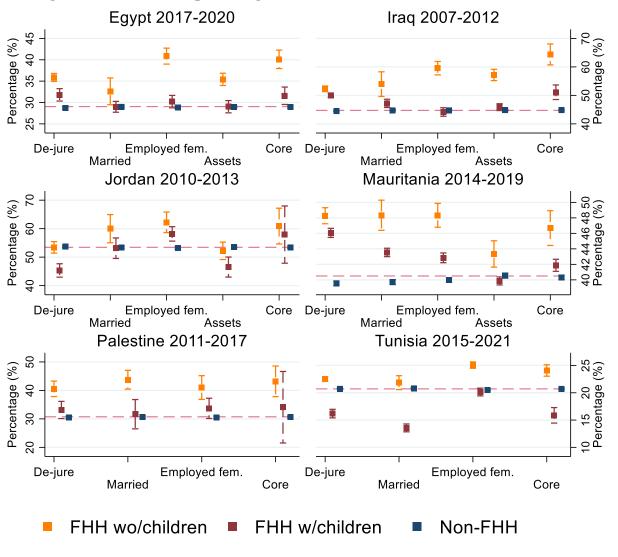


Figure A.5. Probabilities of Female-Headed Households Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage), Egypt

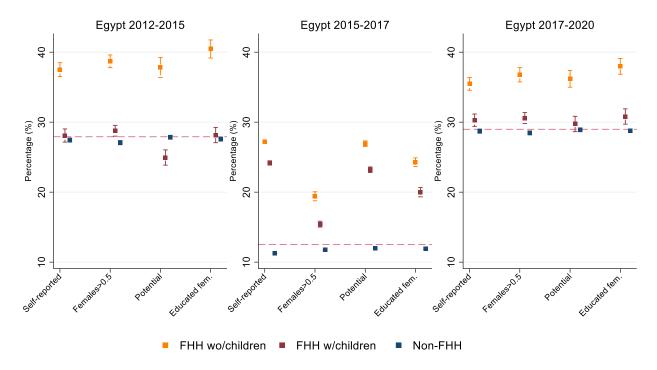


Figure A.6. Probabilities of Female-Headed Households Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage), Mauritania

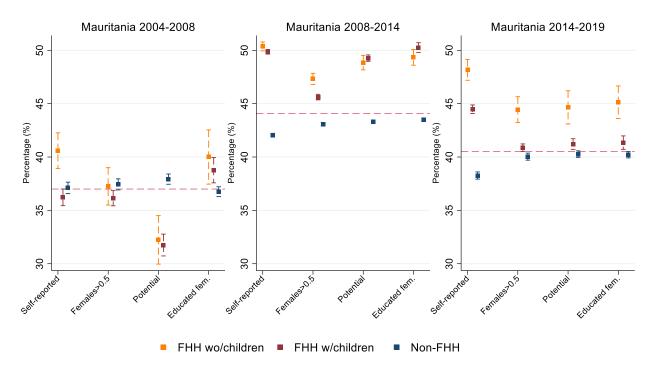


Figure A.7. Probabilities of Female-Headed Households Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage), Palestine

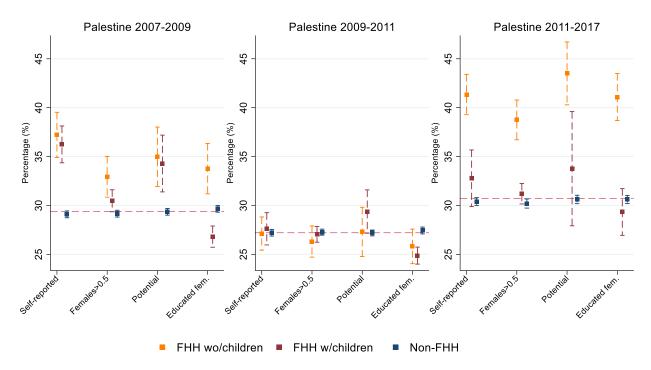


Figure A.8. Probabilities of Female-Headed Households Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage), Tunisia

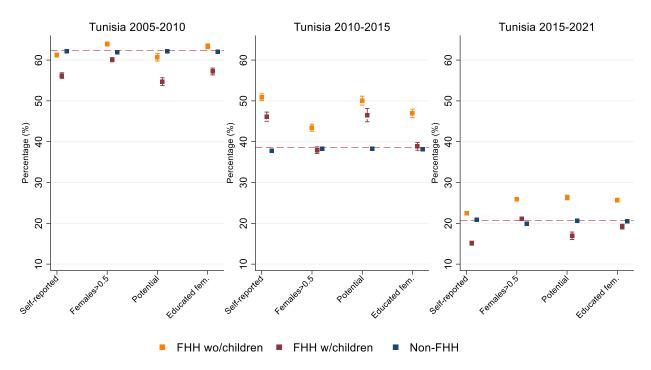


Figure A.9. Probabilities of Female-Headed Households Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage)

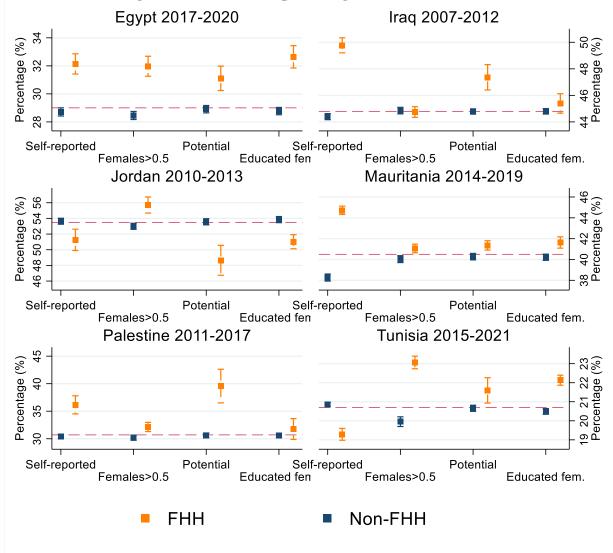
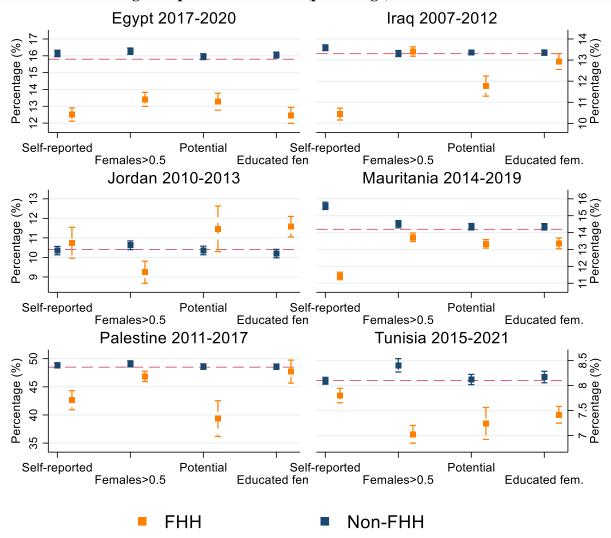


Figure A.10. Probabilities of Female-Headed Households Falling in Poverty in Second Year Conditional on Being Non-poor in First Year (percentage)



Appendix B: Additional Descriptive Statistics for Self-reported FHHs and MHHs

Table B.1. Descriptive Statistics, Egypt 2012-2020

		012	24	017	Egg	урт)17	21	020	Doglad 1	012-2020
	MHH	FHH	MHH	FHH	MHH	FHH	MHH	FHH	MHH	012-2020 FHH
	47.17	54.11	48.71	56.05	49.99	57.19	47.01	55.49	48.37	55.91
Heads age	(13.44)	(15.13)	(13.13)	(14.43)	(12.87)	(14.01)	(13.79)	(16.04)	(13.34)	(14.89)
	0.40	0.69	0.36	0.63	0.34	0.63	0.31	0.58	0.35	0.63
Head does not complete primary school	(0.49)	(0.46)	(0.48)	(0.48)	(0.47)	(0.48)	(0.46)	(0.49)	(0.48)	(0.48)
Good's highest advection level is maintain	0.13	0.09	0.15	0.12	0.15	0.11	0.14	0.11	0.15	0.11
Head's highest education level is primary	(0.33)	(0.29)	(0.36)	(0.32)	(0.36)	(0.31)	(0.35)	(0.31)	(0.35)	(0.31)
Head's highest education level is secondary	0.28	0.14	0.29	0.16	0.30	0.15	0.33	0.19	0.30	0.16
rioda o inglicos cadodaton io ver io occondad y	(0.45)	(0.35)	(0.45)	(0.36)	(0.46)	(0.36)	(0.47)	(0.39)	(0.46)	(0.37)
Head's highest education level is tertiary	0.19	0.08	0.20	0.09	0.20	0.10	0.22	0.12	0.20	0.10
	(0.40) 0.02	(0.27) 0.03	(0.40) 0.01	(0.29) 0.02	(0.40) 0.01	(0.30) 0.03	(0.41) 0.01	(0.33)	(0.40) 0.01	(0.30) 0.03
Head is never married	(0.13)	(0.16)	(0.12)	(0.14)	(0.11)	(0.16)	(0.12)	0.03 (0.18)	(0.12)	(0.16)
	0.95	0.21	0.93	0.16	0.95	0.14	0.95	0.20	0.95	0.17
Head is mono married	(0.22)	(0.41)	(0.25)	(0.37)	(0.22)	(0.34)	(0.21)	(0.40)	(0.23)	(0.38)
	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Head is poly married	(0.07)	(0.00)	(0.12)	(0.00)	(0.06)	(0.00)	(0.00)	(0.00)	(0.08)	(0.00)
	0.01	0.05	0.01	0.07	0.01	0.08	0.01	0.10	0.01	0.08
Head is divorced/separated	(0.08)	(0.22)	(0.09)	(0.26)	(0.09)	(0.28)	(0.09)	(0.30)	(0.09)	(0.27)
T 1 !! 1 1	0.02	0.71	0.03	0.74	0.03	0.75	0.02	0.66	0.03	0.72
Head is widowed	(0.15)	(0.46)	(0.17)	(0.44)	(0.16)	(0.43)	(0.15)	(0.47)	(0.16)	(0.45)
Total Section 1 and 1	0.86	0.19	0.83	0.20	0.81	0.19	0.85	0.21	0.84	0.20
Head is employed	(0.34)	(0.40)	(0.37)	(0.40)	(0.39)	(0.39)	(0.36)	(0.41)	(0.37)	(0.40)
Head is unemployed	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.02	0.01	0.01
	(0.09)	(0.05)	(0.07)	(0.06)	(0.08)	(0.08)	(0.08)	(0.13)	(0.08)	(0.08)
Head is homemaker/housewife	0.00	0.20	0.00	0.48	0.00	0.51	0.00	0.49	0.00	0.44
lead is nomemaker/nousewire	(0.00)	(0.40)	(0.00)	(0.50)	(0.00)	(0.50)	(0.00)	(0.50)	(0.00)	(0.50)
Head is student	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
	(0.05)	(0.00)	(0.04)	(0.04)	(0.01)	(0.04)	(0.03)	(0.07)	(0.03)	(0.05)
Head is pensioner/retired/disabled	0.11	0.51	0.15	0.31	0.18	0.29	0.14	0.27	0.15	0.33
cad is pensioner/retired/disabled	(0.31)	(0.50)	(0.36)	(0.46)	(0.38)	(0.46)	(0.35)	(0.45)	(0.36)	(0.47)
Head is other activities	0.02	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02
	(0.13)	(0.29)	(0.08)	(0.06)	(0.07)	(0.02)	(0.06)	(0.03)	(0.08)	(0.13)
Per capita consumption	6,718.96	8,409.76	10,221.28	13,114.56	14,350.90	19,356.74	16,744.03	21,530.11	12,483.20	16,279.27
	(5,294)	(6,273)	(10,335)	(12,830)	(11,865)	(13,604)	(18,062)	(16,090)	(13,131)	(14,000)
Per capita transfers	1,201.68	5,234.46	2,281.21	8,402.00	3,864.17	12,784.78	4,060.60	15,846.50	3,007.98	11,034.81
•	(3,334) 4.63	(5,406) 2.97	(5,429) 4.54	(9,957) 3.00	(8,474) 4.49	(11,940) 2.72	(8,253) 4.35	(15,900) 2.63	(7,046) 4.50	(12,376) 2.82
Household size	(1.81)			(1.92)	(1.71)			(1.67)		(1.80)
	1.47	(1.85) 0.72	(1.71) 1.43	0.72	1.39	(1.73) 0.56	(1.60) 1.53	0.69	(1.70) 1.45	0.67
Number of children age 0-14	(1.35)	(1.14)	(1.39)	(1.21)	(1.40)	(1.04)	(1.38)	(1.18)	(1.38)	(1.15)
	0.20	0.31	0.21	0.32	0.25	0.36	0.21	0.36	0.22	0.34
Number of seniors	(0.49)	(0.47)	(0.50)	(0.47)	(0.55)	(0.49)	(0.51)	(0.49)	(0.51)	(0.48)
	0.12	0.42	0.13	0.42	0.15	0.49	0.14	0.50	0.14	0.46
-2 adults, no child	(0.32)	(0.49)	(0.34)	(0.49)	(0.36)	(0.50)	(0.35)	(0.50)	(0.34)	(0.50)
	0.23	0.18	0.19	0.16	0.16	0.15	0.25	0.18	0.20	0.16
1-2 adults, 1-2 children	(0.42)	(0.38)	(0.39)	(0.37)	(0.36)	(0.35)	(0.43)	(0.38)	(0.40)	(0.37)
10.11.0	0.23	0.11	0.25	0.10	0.26	0.09	0.25	0.11	0.25	0.10
-2 adult, 3 or more children	(0.42)	(0.31)	(0.43)	(0.30)	(0.44)	(0.29)	(0.43)	(0.31)	(0.43)	(0.30)
adults or more, 0-1 child	0.23	0.20	0.25	0.21	0.26	0.20	0.21	0.16	0.24	0.19
addits of more, 0-1 cilid	(0.42)	(0.40)	(0.43)	(0.41)	(0.44)	(0.40)	(0.41)	(0.36)	(0.43)	(0.40)
adults or more, 2-3 children	0.14	0.07	0.14	0.08	0.14	0.05	0.12	0.04	0.14	0.06
addres of filore, 2-3 childrell	(0.35)	(0.25)	(0.34)	(0.28)	(0.35)	(0.23)	(0.33)	(0.21)	(0.34)	(0.24)
adults or more, 4 children or more	0.05	0.02	0.04	0.02	0.03	0.01	0.03	0.01	0.04	0.02
addits of more, 4 children of more	(0.21)	(0.14)	(0.19)	(0.15)	(0.18)	(0.12)	(0.17)	(0.11)	(0.19)	(0.13)
Rural area	0.56	0.55	0.55	0.52	0.55	0.49	0.57	0.54	0.56	0.52
Xurur urod	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)
Urban area	0.44	0.45	0.45	0.48	0.45	0.51	0.43	0.46	0.44	0.48
C. Cuit at Cu	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)

Note: Household sampling weights are applied. Standard deviations are in parentheses. FHHs and MHHs are self-reported.

Table B.2. Descriptive Statistics, Palestine 2007-2017

		Palestine									
Heads sign Heads sign Heads sign Heads sign Heads sign Heads sign Head sign											
Read sign											FHH
Company Comp	Heads age										
Paral of second comprote primary 0.23 0.24 0.48 0.28 0.49 0.33 0.50 0.33 0.50 0.32 0.49 0.34 0.49 0.37 0.49 0.31 Paral shighest education level is person 0.50 0.45 0.38 0.40 0.30 0.40 0.50 0.44 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.40	Tiends age										
Maria Singhest education level a primary	Head does not complete primary school										
Beach squeezested personner year personner year personner year personner year personner year year year year year year year ye	r										
Hearts inglesse education level is secondary 0.16	Head's highest education level is primary										
Peacle P											
Read's highest education level is tertary	Head's highest education level is secondary										
Reads a process control section (38) (32) (64) (0.28) (0.41) (0.29) (0.42) (0.43) (0.41) (0.30) (0.00) (0.01) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.0											
Head is never married 0.01	Head's highest education level is tertiary										
Paral server number 10,110 0,125 0,099 0,31 0,088 0,30 0,000 0,000 0,000 0,035 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33 0,33											
Head is mom married	Head is never married										
Parel is non-numbred (0,19)											
Head is poly married	Head is mono married										
Head is flower polymarred (0.12) (0.00) (0.11) (0.00) (0.10) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.0											
Head is divorced/separated	Head is poly married										
Head is wildowed	77 1 P 1/ - 1/ - 1										
Part of the sire	Head is divorced/separated	(0.00)	(0.31)	(0.05)	(0.25)	(0.06)	(0.30)	(0.09)	(0.45)	(0.06)	(0.44)
Heal is employed	77 12 21 1										
Head is employed	Head is widowed	(0.11)	(0.44)	(0.10)	(0.46)	(0.10)	(0.46)	(0.05)	(0.27)	(0.09)	(0.50)
Head is unemployed 0.12 0.02 0.03 0.04 0.03 0.04 0.03 0.05 0.03 0.05 0.05 0.05 0.05 0.05	II. d. b	0.76	0.21	0.76	0.23	0.78	0.24	` ,	` ′	0.77	0.23
Head is homepunyed	Head is employed	(0.43)	(0.41)	(0.43)	(0.42)	(0.42)	(0.43)			(0.42)	(0.42)
Head is homemaker/housewrife	Head is unemployed	0.12	0.02	0.08	0.01	0.08	0.02			0.08	0.02
Head is shomemaker/housewide 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050		(0.32)	(0.14)	(0.27)	(0.11)	(0.27)	(0.15)			(0.28)	(0.13)
Head is student	Head is homemolyan/housawife	0.00	0.56	0.00	0.47	0.14	0.08			0.06	0.29
Head is student 0,06 0,00 0,03 0,06 0,04 0,04 0,04 0,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,	nead is nomemaker/nousewife	(0.05)	(0.50)	(0.05)	(0.50)	(0.34)	(0.28)				(0.45)
Head is pensioner/retirel/disabled 0.08	Hand in student	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00
Head is other activities	riead is student			(0.03)							
Head is other activities	Head is pensioner/retired/disabled	0.08	0.18	0.10	0.27	0.00	0.00			0.05	0.13
Per capita consumption (0,20)	ricad is pensioner/retired/disabled										
Per capita consumption	Head is other activities										
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Heben area 0.57 0.60 0.74 0.68 0.74 0.72 0.73 0.72 0.72 0.70	Rural area										
	Urban area	(0.50)	(0.49)	(0.44)	(0.47)	(0.44)	(0.45)	(0.44)	(0.45)	(0.45)	(0.46)

Note: Household sampling weights are applied. Standard deviations are in parentheses. FHHs and MHHs are self-reported.

Table B.3. Descriptive Statistics, Tunisia 2005-2021

_						nisia				
-	20			010		15	20			2005-2021
	MHH 52.12	FHH 57.74	MHH 52.44	FHH 59.52	MHH 53.38	FHH 60.99	MHH 55.40	FHH	MHH 53.72	FHH
Heads age	52.12 (14.07)	(15.18)	53.44 (13.74)	(15.60)	(13.65)	(14.86)	(13.53)	61.95 (14.47)	(13.78)	60.31 (15.04)
Head does not complete	0.75	0.92	0.77	0.93	0.19	0.57	0.13	0.48	0.42	0.68
primary school	(0.43)	(0.27)	(0.42)	(0.26)	(0.39)	(0.50)	(0.34)	(0.50)	(0.42)	(0.47)
Head's highest education level	0.04	0.01	0.03	0.02	0.39	0.25	0.42	0.30	0.25	0.17
is primary	(0.20)	(0.12)	(0.18)	(0.12)	(0.49)	(0.43)	(0.49)	(0.46)	(0.43)	(0.38)
Head's highest education level	0.12	0.05	0.11	0.04	0.29	0.13	0.32	0.16	0.22	0.10
is secondary	(0.32)	(0.21)	(0.31)	(0.20)	(0.46)	(0.34)	(0.47)	(0.36)	(0.42)	(0.31)
Head's highest education level	0.09	0.02	0.09	0.02	0.13	0.05	0.13	0.06	0.11	0.04
s tertiary	(0.28)	(0.14)	(0.29)	(0.14)	(0.33)	(0.22)	(0.33)	(0.23)	(0.31)	(0.20)
· ·	0.02	0.06	0.01	0.04	0.03	0.08	0.03	0.08	0.02	0.07
Head is never married	(0.13)	(0.24)	(0.11)	(0.19)	(0.17)	(0.27)	(0.17)	(0.27)	(0.15)	(0.25)
	0.96	0.19	0.97	0.20	0.95	0.13	0.95	0.10	0.95	0.15
Head is mono married	(0.20)	(0.39)	(0.18)	(0.40)	(0.22)	(0.34)	(0.22)	(0.30)	(0.21)	(0.35)
	0.01	0.08	0.00	0.08	0.01	0.09	0.01	0.10	0.00	0.09
Head is divorced/separated	(0.07)	(0.26)	(0.06)	(0.27)	(0.07)	(0.29)	(0.07)	(0.30)	(0.07)	(0.29)
Head is widowed	0.02	0.67	0.02	0.69	0.02	0.70	0.02	0.71	0.02	0.69
Head is widowed	(0.14)	(0.47)	(0.14)	(0.46)	(0.13)	(0.46)	(0.13)	(0.45)	(0.13)	(0.46)
Hand in amplement	0.74	0.24	0.71	0.17					0.72	0.21
Head is employed	(0.44)	(0.43)	(0.46)	(0.38)					(0.45)	(0.40)
Head is unemployed	0.02	0.01	0.02	0.01					0.02	0.01
nead is unemployed	(0.15)	(0.10)	(0.15)	(0.07)					(0.15)	(0.09)
Head is	0.00	0.41	0.01	0.49					0.00	0.45
homemaker/housewife	(0.05)	(0.49)	(0.07)	(0.50)					(0.06)	(0.50)
Head is student	0.00	0.01	0.00	0.00					0.00	0.00
	(0.04)	(0.09)	(0.02)	(0.02)					(0.03)	(0.06)
Head is	0.22	0.32	0.26	0.33					0.24	0.32
pensioner/retired/disabled	(0.42)	(0.46)	(0.44)	(0.47)					(0.43)	(0.47)
Head is other activities	0.00	0.02	0.00	0.01					0.00	0.01
	(0.07)	(0.15)	(0.05)	(0.08)					(0.06)	(0.12)
Per capita consumption	2,027.76	2,252.64	2,823.94	3,156.40	4,310.95	4,892.92	5,999.25	6,886.89	3,976.12	4,634.09
	(2,206.66)	(2,473.81)	(2,604.83)	(2,640.10)	(4,590.12)	(4,002.85)	(7,378.56)	(6,515.51)	(5,136.62)	(4,910.49)
Household size	4.77	3.25	4.55	3.11	4.26	2.79	3.97	2.61	4.35	2.89
	(1.88)	(1.96)	(1.73)	(1.75)	(1.60)	(1.60)	(1.45)	(1.39)	(1.68)	(1.67)
Number of children age 0-14	1.21	0.57	1.01	0.50	1.08	0.40	0.95	0.36	1.05	0.44
	(1.26)	(1.07)	(1.19)	(0.99)	(1.23)	(0.86)	(1.18)	(0.83)	(1.21)	(0.93)
Number of seniors	0.38	0.43	0.38	0.46	0.35	0.47			0.37	0.45
	(0.66) 0.10	(0.52) 0.38	(0.66) 0.11	(0.54) 0.40	(0.66)	(0.53)	0.19	0.52	(0.66)	(0.53) 0.45
1-2 adults, no child		(0.49)	(0.32)	(0.49)			(0.39)	(0.50)	0.14 (0.35)	(0.50)
	(0.31) 0.20	0.12	0.20	0.13			0.18	0.09	0.19	0.11
1-2 adults, 1-2 children	(0.40)	(0.32)	(0.40)	(0.33)			(0.38)	(0.29)	(0.39)	(0.31)
	0.17	0.08	0.14	0.08			0.10	0.03	0.13	0.06
1-2 adult, 3 or more children	(0.37)	(0.28)	(0.35)	(0.27)			(0.30)	(0.17)	(0.34)	(0.23)
	0.32	0.32	0.39	0.33			0.44	0.32	0.39	0.32
3 adults or more, 0-1 child	(0.47)	(0.47)	(0.49)	(0.47)			(0.50)	(0.47)	(0.49)	(0.47)
	0.16	0.08	0.14	0.06			0.09	0.04	0.13	0.06
3 adults or more, 2-3 children	(0.37)	(0.27)	(0.35)	(0.24)			(0.28)	(0.19)	(0.33)	(0.23)
3 adults or more, 4 children or	0.04	0.02	0.02	0.01			0.01	0.00	0.02	0.01
more	(0.20)	(0.14)	(0.15)	(0.08)			(0.07)	(0.04)	(0.14)	(0.09)
	0.32	0.33	0.32	0.34	0.30	0.26	0.31	0.27	0.31	0.29
Rural area	(0.46)	(0.47)	(0.47)	(0.47)					(0.46)	(0.45)
Rural area	(0.46) 0.68	(0.47) 0.67	(0.47) 0.68	(0.47) 0.66	(0.46) 0.70	(0.44) 0.74	(0.46) 0.69	(0.44) 0.73	(0.46) 0.69	(0.45) 0.71

Table B.4. Descriptive Statistics, Jordan 2010-2013

				rdan			
		2010		013		010-2013	
	MHH 47.62	FHH 58.63	MHH 47.49	FHH 58.96	MHH 47.55	FHH 58.80	
Heads age	(14.13)	(13.68)	(14.04)	(13.24)	(14.08)	(13.45)	
	0.15	0.53	0.12	0.49	0.13	0.51	
Head does not complete primary school	(0.36)	(0.50)	(0.32)	(0.50)	(0.34)	(0.50)	
	0.47	0.27	0.47	0.30	0.47	0.28	
Head's highest education level is primary	(0.50)	(0.44)	(0.50)	(0.46)	(0.50)	(0.45)	
Head's highest education level is secondary	0.15	0.08	0.14	0.09	0.15	0.09	
redus inglest education level is secondary	(0.36)	(0.28)	(0.34)	(0.28)	(0.35)	(0.28)	
Head's highest education level is tertiary	0.22	0.12	0.28	0.12	0.25	0.12	
	(0.42) 0.02	(0.33)	(0.45) 0.02	(0.33)	(0.44)	(0.33)	
Head is never married	(0.13)	0.06 (0.25)	(0.14)	0.07 (0.25)	0.02 (0.14)	0.07 (0.25)	
	0.97	0.19	0.96	0.17	0.97	0.18	
Head is mono married	(0.17)	(0.39)	(0.20)	(0.37)	(0.18)	(0.38)	
	0.00	0.00	0.00	0.00	0.00	0.00	
Head is poly married	(0.06)	(0.00)	(0.06)	(0.00)	(0.06)	(0.00)	
Land in Proceedings	0.00	0.04	0.00	0.05	0.00	0.04	
Head is divorced/separated	(0.03)	(0.19)	(0.06)	(0.22)	(0.05)	(0.20)	
(and in midernal	0.01	0.71	0.01	0.72	0.01	0.72	
lead is widowed	(0.08)	(0.45)	(0.11)	(0.45)	(0.10)	(0.45)	
Head is employed	0.66	0.04	0.67	0.05	0.66	0.05	
icad is employed	(0.47)	(0.20)	(0.47)	(0.22)	(0.47)	(0.21)	
ad is unemployed	0.04	0.01	0.07	0.04	0.06	0.02	
ead is anomprojed	(0.20)	(0.09)	(0.26)	(0.19)	(0.24)	(0.15)	
lead is homemaker/housewife	0.00	0.79	0.00	0.75	0.00	0.77	
	(0.02)	(0.41)	(0.00)	(0.43)	(0.01)	(0.42)	
ead is student	0.00	0.00	0.00	0.00	0.00	0.00	
	(0.01) 0.12	(0.00) 0.15	(0.05) 0.14	(0.04) 0.14	(0.04) 0.13	(0.03) 0.14	
lead is pensioner/retired/disabled	(0.33)	(0.35)	(0.35)	(0.34)	(0.34)	(0.35)	
	0.17	0.02	0.12	0.02	0.14	0.02	
lead is other activities	(0.38)	(0.13)	(0.32)	(0.15)	(0.35)	(0.14)	
	2,063.45	2,916.21	2,238.36	3,100.82	2,155.59	3,010.97	
er capita consumption	(3,263.14)	(2,417.35)	(1,578.64)	(2,442.96)	(2,521.48)	(2,431.02)	
	377.77	1,107.40	469.79	1,114.52	426.24	1,111.05	
er capita transfers	(703.55)	(1,489.48)	(839.28)	(1,364.42)	(779.30)	(1,425.88)	
Jousehold size	5.66	3.64	5.36	3.49	5.50	3.56	
busenoid size	(2.18)	(2.28)	(2.12)	(2.51)	(2.15)	(2.40)	
umber of children age 0-14	1.93	0.59	1.80	0.57	1.86	0.58	
united of emiliated age of 11	(1.70)	(1.14)	(1.66)	(1.42)	(1.68)	(1.29)	
fumber of seniors	0.26	0.38	0.23	0.41	0.24	0.40	
	(0.57)	(0.49)	(0.54)	(0.51)	(0.55)	(0.50)	
2 adults, no child	0.07	0.36	0.09	0.39	0.08	0.37	
	(0.26) 0.13	(0.48) 0.14	(0.28) 0.15	(0.49) 0.10	(0.27) 0.14	(0.48) 0.12	
-2 adults, 1-2 children	(0.34)	(0.35)	(0.35)	(0.30)	(0.35)	(0.32)	
	0.30	0.06	0.29	0.06	0.29	0.06	
-2 adult, 3 or more children	(0.46)	(0.25)	(0.45)	(0.23)	(0.46)	(0.24)	
	0.23	0.29	0.25	0.34	0.24	0.32	
adults or more, 0-1 child	(0.42)	(0.46)	(0.43)	(0.47)	(0.43)	(0.47)	
adalah ang mana 2.2 ah Eduara	0.15	0.10	0.13	0.08	0.14	0.09	
adults or more, 2-3 children	(0.36)	(0.30)	(0.34)	(0.27)	(0.35)	(0.29)	
adults or more, 4 children or more	0.11	0.05	0.09	0.04	0.10	0.04	
address of more, 4 children of more	(0.31)	(0.22)	(0.29)	(0.18)	(0.30)	(0.20)	
ural area	0.16	0.13	0.17	0.19	0.17	0.16	
nai aica	(0.37)	(0.34)	(0.37)	(0.39)	(0.37)	(0.37)	
Jrban area	0.84	0.87	0.83	0.81	0.83	0.84	
Touri area	(0.37)	(0.34)	(0.37)	(0.39)	(0.37)	(0.37)	

Table B.5. Descriptive Statistics, Iraq 2007-2013

		205	Ir		Pooled 2007-2013		
		007 FHH		12 FHH	MHH Pooled 2	007-2013 FHH	
	45.15	54.29	46.93	54.28	46.73	54.28	
Heads age	(13.71)	(13.04)	(13.06)	(12.51)	(13.14)	(12.58)	
Good doos not complete mimory school	0.31	0.75	0.34	0.72	0.34	0.72	
Head does not complete primary school	(0.46)	(0.43)	(0.47)	(0.45)	(0.47)	(0.45)	
Head's highest education level is primary	0.41	0.17	0.41	0.20	0.41	0.20	
lead's highest education level is primary	(0.49)	(0.38)	(0.49)	(0.40)	(0.49)	(0.40)	
Head's highest education level is secondary	0.11	0.02	0.09	0.03	0.09	0.03	
read 5 mg/rest education to verils secondary	(0.31)	(0.14)	(0.28)	(0.17)	(0.28)	(0.17)	
Head's highest education level is tertiary	0.17	0.06	0.16	0.05	0.16	0.05	
,	(0.38)	(0.23)	(0.36)	(0.22)	(0.37)	(0.22)	
lead is never married	0.02	0.04	0.01	0.02	0.01	0.02	
	(0.13)	(0.20)	(0.09)	(0.14)	(0.10)	(0.15)	
lead is mono married	0.95	0.08	0.95	0.15	0.95	0.14	
	(0.21)	(0.27)	(0.22)	(0.35)	(0.22) 0.03	(0.34)	
Head is poly married	0.01	0.00	0.03	0.00		0.00	
* •	(0.11) 0.00	(0.00) 0.07	(0.17) 0.00	(0.00) 0.06	(0.16) 0.00	(0.00) 0.06	
Head is divorced/separated	(0.04)	(0.25)	(0.04)	(0.25)	(0.04)	(0.25)	
	0.04)	0.81	0.04)	0.77	0.04)	0.77	
Head is widowed	(0.12)	(0.39)	(0.10)	(0.42)	(0.11)	(0.42)	
	0.79	0.19	0.78	0.15	0.78	0.16	
lead is employed	(0.41)	(0.40)	(0.42)	(0.36)	(0.42)	(0.36)	
ead is unemployed	0.03	0.02	0.02	0.01	0.02	0.01	
	(0.18)	(0.13)	(0.15)	(0.08)	(0.15)	(0.09)	
ead is homemaker/housewife	0.00	0.69	0.00	0.53	0.00	0.55	
	(0.02)	(0.46)	(0.03)	(0.50)	(0.03)	(0.50)	
ad is student	0.00	0.00	0.00	0.00	0.00	0.00	
	(0.04)	(0.00)	(0.04)	(0.02)	(0.04)	(0.02)	
	0.14	0.08	0.18	0.30	0.18	0.27	
lead is pensioner/retired/disabled	(0.35)	(0.27)	(0.39)	(0.46)	(0.38)	(0.45)	
for the advanced by the	0.03	0.03	0.02	0.01	0.02	0.01	
lead is other activities	(0.17)	(0.16)	(0.12)	(0.08)	(0.13)	(0.10)	
tan aanita aanaumutian	1,878,839.75	2,011,498.91	2,855,613.71	3,072,404.17	2,746,443.13	2,933,690.42	
er capita consumption	(1,662,430)	(1,562,966)	(2,612,256)	(2,728,793)	(2,542,574)	(2,630,373)	
er capita transfers	166.71	409.56	249.20	647.95	239.98	616.79	
ei capita transfers	(415.53)	(941.59)	(902.11)	(1,940.46)	(861.86)	(1,842.51)	
Household size	7.00	5.76	8.49	7.64	8.33	7.39	
ouschold size	(3.43)	(3.46)	(4.21)	(4.22)	(4.16)	(4.18)	
Jumber of children age 0-14	2.69	1.64	3.46	2.75	3.37	2.61	
	(2.12)	(2.00)	(2.55)	(2.68)	(2.51)	(2.63)	
umber of seniors	0.22	0.27	0.24	0.24	0.24	0.25	
	(0.51)	(0.49)	(0.52)	(0.46)	(0.52)	(0.46)	
-2 adults, no child	0.04	0.14	0.01	0.04	0.01	0.05	
	(0.20)	(0.35)	(0.11)	(0.19)	(0.12)	(0.22)	
-2 adults, 1-2 children	0.14	0.08	0.06	0.05	0.07	0.06	
	(0.34)	(0.28)	(0.25)	(0.23)	(0.26) 0.27	(0.23)	
-2 adult, 3 or more children	0.29	0.13	0.27	0.15		0.15	
	(0.45) 0.15	(0.34) 0.30	(0.44) 0.11	(0.35) 0.21	(0.44) 0.11	(0.35) 0.22	
adults or more, 0-1 child	(0.35)	(0.46)	(0.31)	(0.41)	(0.32)	(0.42)	
	0.16	0.18	0.18	0.26	0.18	0.25	
adults or more, 2-3 children	(0.37)	(0.38)	(0.39)	(0.44)	(0.39)	(0.43)	
	0.22	0.16	0.36	0.29	0.35	0.27	
adults or more, 4 children or more	(0.42)	(0.37)	(0.48)	(0.45)	(0.48)	(0.45)	
	(0.42)						
	0.27	0.20	0.22				
	0.27	0.20	0.33	0.22	0.32	0.22	
Rural area	0.27 (0.44) 0.73	0.20 (0.40) 0.80	0.33 (0.47) 0.67	0.22 (0.42) 0.78	0.32 (0.47) 0.68	0.22 (0.41) 0.78	

Table B.6. Descriptive Statistics, Mauritania 2004-2019

			Mauritania							
	20	04	20	08	20)14	20	119	Pooled 2	004-2019
	МНН	FHH	MHH	FHH	MHH	FHH	MHH	FHH	MHH	FHH
Heads age	48.10	53.29	48.22	47.33	49.11	48.05	49.63	46.83	48.83	48.01
Treates age	(13.60)	(14.09)	(14.06)	(15.24)	(14.49)	(15.80)	(14.29)	(15.25)	(14.16)	(15.40)
Head does not complete primary school	0.77	0.93	0.72	0.85	0.70	0.81	0.48	0.50	0.66	0.72
ricua does not complete primary sensor	(0.42)	(0.25)	(0.45)	(0.35)	(0.46)	(0.39)	(0.50)	(0.50)	(0.47)	(0.45)
Head's highest education level is primary	0.08	0.03	0.11	0.09	0.11	0.11	0.26	0.33	0.15	0.18
ricut o ingliest education is ver is primary	(0.28)	(0.17)	(0.31)	(0.29)	(0.32)	(0.32)	(0.44)	(0.47)	(0.35)	(0.38)
Head's highest education level is secondary	0.11	0.03	0.12	0.05	0.13	0.07	0.18	0.16	0.14	0.09
,	(0.31)	(0.18)	(0.33)	(0.21)	(0.34)	(0.25)	(0.38)	(0.36)	(0.34)	(0.29)
Head's highest education level is tertiary	0.04	0.01	0.05	0.01	0.06	0.01	0.08	0.01	0.06	0.01
ricad's ingliest education level is tertially	(0.19)	(0.08)	(0.22)	(0.08)	(0.24)	(0.08)	(0.27)	(0.10)	(0.23)	(0.09)
Head is never married	0.03	0.02	0.02	0.01	0.03	0.02	0.03	0.02	0.03	0.02
ricad is never married	(0.17)	(0.15)	(0.16)	(0.12)	(0.17)	(0.13)	(0.17)	(0.13)	(0.16)	(0.13)
Head is mono married	0.94	0.10	0.95	0.39	0.94	0.43	0.88	0.50	0.93	0.41
nead is mono married	(0.24)	(0.30)	(0.22)	(0.49)	(0.23)	(0.50)	(0.32)	(0.50)	(0.26)	(0.49)
III. die automonis d	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.03	0.02	0.01
Head is poly married	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.23)	(0.17)	(0.12)	(0.11)
III. d. i. diamanda d	0.02	0.33	0.01	0.22	0.02	0.21	0.02	0.18	0.02	0.21
Head is divorced/separated	(0.14)	(0.47)	(0.12)	(0.42)	(0.13)	(0.40)	(0.13)	(0.39)	(0.13)	(0.41)
	0.01	0.55	0.01	0.37	0.01	0.35	0.01	0.27	0.01	0.35
Head is widowed	(0.11)	(0.50)	(0.11)	(0.48)	(0.11)	(0.48)	(0.12)	(0.44)	(0.11)	(0.48)
	0.86	0.54	0.78	0.40	0.87	0.40	0.81	0.37	0.83	0.41
Head is employed	(0.35)	(0.50)	(0.41)	(0.49)	(0.33)	(0.49)	(0.39)	(0.48)	(0.37)	(0.49)
	0.02	0.02	0.04	0.02	0.01	0.02	0.01	0.01	0.02	0.02
Head is unemployed	(0.15)	(0.12)	(0.19)	(0.13)	(0.08)	(0.13)	(0.11)	(0.11)	(0.14)	(0.12)
	0.12	0.45	0.18	0.59	0.12	0.58	0.18	0.61	0.15	0.58
Head is not searched and not work	(0.32)	(0.50)	(0.38)	(0.49)	(0.32)	(0.49)	(0.38)	(0.49)	(0.36)	(0.49)
	184,984.25	147,570.28	240,551.50	219,258.68	341,658.92	350,431.69	373,240.01	403,696.14	294,662.55	315,850.25
Per capita consumption	(2587509)	(205663)	(234972)	(168764)	(299510)	(247036)	(264805)	(268529)	(1,189,714)	(252,048)
	5.94	4.40	5.87	4.68	6.05	5.03	6.46	5.59	6.10	5.08
Household size										
	(2.77) 2.56	(2.44) 1.63	(2.88) 2.53	(2.47) 2.12	(3.44) 2.68	(2.61) 2.33	(3.59)	(2.98) 2.66	(3.24)	(2.73) 2.32
Number of children age 0-14							2.86		2.67	
•	(2.01)	(1.73)	(2.03)	(1.84)	(2.29)	(1.98)	(2.41)	(2.01)	(2.21)	(1.96)
Number of seniors	0.19	0.27	0.21	0.20	0.25	0.23	0.27	0.23	0.23	0.23
	(0.44)	(0.46)	(0.47)	(0.41)	(0.51)	(0.44)	(0.56)	(0.46)	(0.50)	(0.44)
1-2 adults, no child	0.08	0.19	0.10	0.13	0.10	0.11	0.09	0.07	0.09	0.11
	(0.28)	(0.39)	(0.29)	(0.33)	(0.29)	(0.31)	(0.28)	(0.25)	(0.29)	(0.31)
1-2 adults, 1-2 children	0.16	0.21	0.16	0.22	0.14	0.19	0.12	0.19	0.14	0.20
	(0.37)	(0.40)	(0.36)	(0.41)	(0.35)	(0.40)	(0.33)	(0.39)	(0.35)	(0.40)
1-2 adult, 3 or more children	0.20	0.14	0.20	0.24	0.23	0.26	0.20	0.26	0.21	0.24
	(0.40)	(0.35)	(0.40)	(0.43)	(0.42)	(0.44)	(0.40)	(0.44)	(0.41)	(0.43)
3 adults or more, 0-1 child	0.19	0.26	0.19	0.20	0.18	0.20	0.18	0.17	0.18	0.19
5 dadies of more, o' I clind	(0.39)	(0.44)	(0.39)	(0.40)	(0.38)	(0.40)	(0.38)	(0.37)	(0.39)	(0.40)
3 adults or more, 2-3 children	0.17	0.13	0.18	0.13	0.17	0.14	0.19	0.17	0.18	0.15
5 addition in more, 2 5 children	(0.38)	(0.34)	(0.38)	(0.34)	(0.38)	(0.34)	(0.39)	(0.37)	(0.38)	(0.35)
3 adults or more, 4 children or more	0.19	0.07	0.18	0.09	0.18	0.11	0.23	0.15	0.20	0.12
5 addres of filote, 4 children of filote	(0.39)	(0.25)	(0.38)	(0.28)	(0.39)	(0.31)	(0.42)	(0.36)	(0.40)	(0.32)
Rural area	0.62	0.57	0.54	0.64	0.49	0.56	0.52	0.57	0.54	0.58
Kurar area	(0.49)	(0.49)	(0.50)	(0.48)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.49)
Urban area	0.38	0.43	0.46	0.36	0.51	0.44	0.48	0.43	0.46	0.42
		(0.49)	(0.50)	(0.48)	(0.50)	(0.50)	(0.50)	(0.50)	(0.50)	(0.49)

	МНН	FHH
Heads age	48.14	55.52
·	(13.61) 0.36	(14.10) 0.70
Head does not complete primary school	(0.48)	(0.46)
Head's highest education level is primary	0.38	0.19
riead's ingliest education level is primary	(0.48)	(0.40)
Head's highest education level is secondary	0.12	0.06
	(0.32) 0.15	(0.23) 0.05
Head's highest education level is tertiary	(0.36)	(0.21)
Head is never married	0.01	0.04
	(0.11) 0.95	(0.19) 0.17
Head is mono married	(0.22)	(0.37)
Head is poly married	0.02	0.03
nead is poly married	(0.15)	(0.16)
Head is divorced/separated	0.01	0.25
	(0.07) 0.01	(0.43) 0.71
Head is widowed	(0.11)	(0.45)
Head is employed	0.77	0.19
ricad is employed	(0.42)	(0.39)
Head is unemployed	0.03 (0.16)	0.01 (0.10)
	0.01	0.55
Head is homemaker/housewife	(0.08)	(0.50)
Head is student	0.00	0.00
	(0.04) 0.18	(0.03) 0.27
Head is pensioner/retired/disabled	(0.39)	(0.45)
Head is other activities	0.02	0.01
ricad is other activities	(0.15)	(0.11)
Per capita consumption	2,034,242.98 (2,496,523)	1,731,419.27 (2,451,185)
	204.12	471.50
Per capita transfers	(805.10)	(1,655.70)
Household size	7.39	5.75
	(4.05) 2.85	(3.99) 1.89
Number of children	(2.46)	(2.38)
Number of seniors	0.26	0.29
Talliot of Semons	(0.54)	(0.48)
1-2 adults, no child	0.04 (0.19)	0.16 (0.37)
1-2 adults, 1-2 children	0.10	0.09
1-2 aduits, 1-2 children	(0.29)	(0.28)
1-2 adult, 3 or more children	0.25	0.13
	(0.43) 0.16	(0.34) 0.25
3 adults or more, 0-1 child	(0.37)	(0.43)
3 adults or more, 2-3 children	0.17	0.19
	(0.38)	(0.39)
3 adults or more, 4 children or more	0.28 (0.45)	0.19 (0.39)
Daniel and	0.32	0.27
Rural area	(0.47)	(0.45)
Urban area	0.68 (0.47)	0.73 (0.45)

Appendix C: Synthetic Panel Method

This appendix offers a brief overview of the synthetic panel method based on Dang and Lanjouw (2023). Recent validations and applications of the synthetic panel methods by various researchers for different country contexts ranging from Africa to Latin America, the Middle East, and Europe have been encouraging in terms of accurate projections of economic status (Ferreira *et al.*, 2012; Beegle *et al.*, 2016; UNDP, 2016; OECD, 2018; Salvuci and Tarp, 2021; Ghomi, 2022).

Let x_{ij} be a vector of household characteristics observed in survey round j (j= 1 or 2) that are also observed in the other survey round for household i, i= 1,..., N.¹⁷ These household characteristics can include such time-invariant variables as ethnicity, religion, language, place of birth, parental education, and other time-varying household characteristics if retrospective questions about the round-1 values of such characteristics are asked in the second round survey. To reduce spurious changes due to changes in household composition over time, we usually restrict the estimation samples to household heads in a certain age range, say 25 to 55, in the first cross section and adjust this age range accordingly in the second cross section. This restriction also helps ensure certain variables such as heads' education attainment remains relatively stable over time (assuming most heads are finished with their schooling). This age range is usually used in traditional pseudo-panel analysis but can vary depending on the cultural and economic factors in each specific setting. Population weights are then employed to provide estimates that represent the whole population.

Then let y_{ij} represent household consumption or income in survey round j, j=1 or 2. The linear projection of household consumption (or income) on household characteristics for each survey round is given by

$$y_{ij} = \beta_j' x_{ij} + \varepsilon_{ij} \tag{C1}$$

Let z_j be the poverty line in period j. We are interested in knowing the unconditional measures of poverty mobility such as

$$P(y_{i1} < z_1 \text{ and } y_{i2} > z_2)$$
 (C2)

which represents the percentage of households that are poor in the first survey round (year) but nonpoor in the second survey round, or the conditional measures such as

$$P(y_{i2} > z_2 | y_{i1} < z_1) (C3)$$

which represents the percentage of poor households in the first round that escape poverty in the second round.

If true panel data are available, we can straightforwardly estimate the quantities in (C2) and (C3); but in the absence of such data, we can use synthetic panels to study mobility. To operationalize the framework, we make two standard assumptions. First, we assume that the underlying population being sampled in survey rounds 1 and 2 are identical such that their time-invariant characteristics remain the same over time. More specifically, coupled with equation (C1), this implies the conditional distribution of expenditure in a given period is identical whether it is conditional on the given household characteristics in period 1 or period 2 (i.e., $x_{i1} = x_{i2}$ implies $y_{i1}|x_{i1}$ and $y_{i1}|x_{i2}$ have identical distributions) (Assumption 1). Second, we assume that ε_{i1} and ε_{i2} have a bivariate normal distribution with positive correlation coefficient ρ and standard deviations σ_{ε_1} and σ_{ε_2} respectively (Assumption 2). Quantity (2) can be estimated by

¹⁷ We suppress the index for countries and FHH types to make notation less cluttered in this appendix.

¹⁸ While household heads may still increase their education achievement in theory, this rarely happens in practice.

$$P(y_{i1} < z_1 \text{ and } y_{i2} > z_2) = \Phi_2\left(\frac{z_1 - \beta_1' x_{i2}}{\sigma_{\varepsilon_1}}, -\frac{z_2 - \beta_2' x_{i2}}{\sigma_{\varepsilon_2}}, -\rho\right) \tag{C4}$$

where $\Phi_2(.)$ stands for the bivariate normal cumulative distribution function (cdf), and $\phi_2(.)$ stands for the bivariate normal probability density function (pdf). Note that in Equation (1), the estimated parameters obtained from data in both survey rounds are applied to data from the second survey round (x₂) (or the base year) for prediction, but we can use data from the first survey round as the base year as well. It is then straightforward to estimate quantity (C3) by dividing quantity (C2) by $\Phi\left(\frac{z_1-\beta_1'x_{i2}}{\sigma_{\varepsilon_1}}\right)$, where $\Phi(.)$ stands for the univariate normal cumulative distribution function (cdf).

In Equation (4), the parameters β_j and σ_{ε_j} are estimated from Equation (C1), and ρ can be estimated using an approximation of the correlation of the cohort-aggregated household consumption between the two surveys ($\rho_{y_{c1}y_{c2}}$). In particular, given an approximation of $\rho_{y_{c1}y_{c2}}$, where c indexes the cohorts constructed from the household survey data, the partial correlation coefficient ρ can be estimated by

$$\rho = \frac{\rho_{y_{i1}y_{i2}}\sqrt{var(y_{i1})var(y_{i2})} - \beta_1'var(x_i)\beta_2}{\sigma_{\varepsilon_1}\sigma_{\varepsilon_2}} \tag{C5}$$
 An alternative way to estimate ρ is to further assume that there is a cohort fixed effect in the

An alternative way to estimate ρ is to further assume that there is a cohort fixed effect in the error terms and aggregate all the time-invariant variables to the cohort level and use the following equation

$$y_{cj} = \beta_j' x_{cj} + \varepsilon_{cj} \tag{C6}$$

where the error term ε_{ci} includes a cohort fixed effect τ_c and the error ν_{ci} .

Note that the standard errors of estimates based on the synthetic panels can in fact be even smaller than that of the true (or design-based) rate if there is a good model fit (or the sample size in the target survey is significantly larger than that in the base survey; see Dang and Lanjouw, 2023, for discussion).

Tables C.1-C.6 present the estimation results using Equation (C1) for all the countries and survey rounds. Tables C.7-C.12 present the descriptive statistics of the estimation sample. These tables show that while most of the time-invariant characteristics show similar distributions across survey rounds (and satisfy Assumption 1), some do not. For example, these include the shares of household heads achieving primary education or secondary education in Egypt during 2012-2015 (Table C.7). But the differences are practically very close to 0. Table C.13 presents the estimates for ρ using Equations (C5) and (C6), where ρ are estimated using Equation (C5) for all countries with cohorts being defined by age interacted with household heads' education.

We also provide alternative estimates for ρ using Equation (C6). Using these estimates, Figures C.1 and C.2 offer qualitatively similarly results to Figures 5 and 6.

Table C.1 First-stage regressions, Egypt

	2012-2	015	2015-2	017	2017-2	020
	2012	2015	2015	2017	2017	2020
Head's age	0.006***	0.012***	0.010***	0.011***	0.009***	0.012***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Head is female	0.141***	0.141***	0.136***	0.234***	0.226***	0.198***
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Highest education level is primary	0.142***	0.126***	0.123***	0.097***	0.099***	0.091***
	(0.02)	(0.01)	(0.01)	(0.01)	(0.01)	(0.02)
Highest education level is secondary	0.199***	0.215***	0.209***	0.179***	0.173***	0.194***
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
Highest education level is tertiary	0.461***	0.482***	0.481***	0.395***	0.394***	0.486***
	(0.02)	(0.01)	(0.01)	(0.01)	(0.01)	(0.02)
Urban	0.241***	0.210***	0.215***	0.126***	0.126***	0.162***
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
_cons	7.995***	8.091***	8.196***	8.555***	8.604***	8.632***
	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
adjusted R2	0.23	0.25	0.24	0.17	0.16	0.21
N	5102	8338	7836	8301	7799	7286

Table C.2 First-stage regressions, Iraq

	2007-	2012
	2007	2012
Head's age	-0.001**	0.005***
-	(0.00)	(0.00)
Head is female	0.012	0.114***
	(0.02)	(0.02)
Highest education level is primary	-0.015	0.069***
	(0.01)	(0.01)
Highest education level is secondary	0.059***	0.305***
	(0.02)	(0.02)
Highest education level is tertiary	0.183***	0.441***
	(0.02)	(0.01)
Urban	0.326***	0.317***
	(0.01)	(0.01)
_cons	13.917***	13.966***
	(0.03)	(0.03)
adjusted R2	0.08	0.13
N	12895	18552

Table C.3 First-stage regressions, Jordan

	2010-	2013
	2010	2013
Head's age	-0.002	0.004***
	(0.00)	(0.00)
Head is female	0.213***	0.107***
	(0.05)	(0.03)
Highest education level is primary	0.171***	0.280***
	(0.04)	(0.03)
Highest education level is secondary	0.320***	0.449***
	(0.05)	(0.04)
Highest education level is tertiary	0.666***	0.729***
	(0.05)	(0.03)
Urban	0.022	0.037*
	(0.03)	(0.02)
_cons	6.976***	6.718***
	(0.08)	(0.06)
adjusted R2	0.16	0.18
N	1873	3437

Table C.4 First-stage regressions, Mauritania

	2004-	2008	2008-	2014	2014-2019		
	2004	2008	2008	2014	2014	2019	
Head`s age	-0.007***	-0.003***	-0.006***	-0.004***	-0.007***	-0.004***	
-	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	
Head is female	0.022	0.075***	0.065***	0.128***	0.103***	0.130***	
	(0.02)	(0.01)	(0.01)	(0.02)	(0.02)	(0.01)	
Highest education level is primary	0.187***	0.143***	0.146***	0.073***	0.079***	-0.014	
	(0.03)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	
Highest education level is secondary	0.384***	0.383***	0.382***	0.223***	0.245***	0.145***	
•	(0.03)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	
Highest education level is tertiary	0.708***	0.609***	0.621***	0.382***	0.408***	0.382***	
	(0.04)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)	
Urban	0.342***	0.605***	0.596***	0.353***	0.380***	0.368***	
	(0.02)	(0.01)	(0.01)	(0.01)	(0.02)	(0.01)	
_cons	11.532***	11.710***	11.819***	12.279***	12.356***	12.421***	
	(0.05)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)	
adjusted R2	0.18	0.32	0.32	0.16	0.18	0.18	
N	6065	9269	9088	6672	6219	6425	

Table C.5 First-stage regressions, Palestine

	2007-	2007-2009		-2011	2011-2017	
	2007	2009	2009	2011	2011	2017
Head's age	0.005	0.006***	0.005***	0.002	-0.000	0.012***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Head is female	0.226**	0.206***	0.226***	0.133***	0.141***	0.160***
	(0.11)	(0.05)	(0.06)	(0.05)	(0.05)	(0.06)
Highest education level is primary	0.177**	0.220***	0.214***	0.218***	0.210***	0.260***
	(0.07)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
Highest education level is secondary	0.276***	0.344***	0.346***	0.339***	0.341***	0.373***
	(0.09)	(0.04)	(0.04)	(0.04)	(0.04)	(0.05)
Highest education level is tertiary	0.585***	0.607***	0.606***	0.602***	0.606***	0.518***
	(0.08)	(0.04)	(0.04)	(0.04)	(0.04)	(0.04)
Urban	-0.034	0.014	0.012	-0.064**	-0.070**	-0.240***
	(0.05)	(0.03)	(0.03)	(0.03)	(0.03)	(0.03)
Refugee	-0.327***	-0.039	-0.034	-0.314***	-0.314***	-0.538***
•	(0.07)	(0.05)	(0.05)	(0.04)	(0.04)	(0.05)
_cons	8.288***	8.388***	8.457***	8.718***	8.828***	8.381***
	(0.15)	(0.07)	(0.07)	(0.08)	(80.0)	(0.08)
adjusted R2	0.08	0.09	0.09	0.09	0.09	0.11
N	962	2944	2938	3288	3229	2815

Table C.6 First-stage regressions, Tunisia

	2005-	2010	2010-	2015	2015-2021		
	2005	2010	2010	2015	2015	2021	
Head's age	0.004***	0.008***	0.005***	0.008***	0.006***	0.014***	
-	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	
Head is female	0.143***	0.053**	0.006	0.197***	0.184***	0.113***	
	(0.03)	(0.02)	(0.03)	(0.02)	(0.02)	(0.02)	
Highest education level is primary	0.312***	0.305***	0.300***	0.210***	0.227***	0.142***	
	(0.04)	(0.04)	(0.04)	(0.01)	(0.02)	(0.02)	
Highest education level is secondary	0.386***	0.293***	0.266***	0.443***	0.460***	0.354***	
· ·	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)	
Highest education level is tertiary	0.945***	0.764***	0.754***	0.904***	0.911***	0.704***	
·	(0.03)	(0.02)	(0.03)	(0.02)	(0.02)	(0.02)	
Urban	0.495***	0.497***	0.499***	0.355***	0.370***	0.287***	
	(0.02)	(0.01)	(0.02)	(0.01)	(0.01)	(0.01)	
_cons	6.547***	6.747***	6.881***	7.006***	7.084***	7.183***	
	(0.05)	(0.04)	(0.05)	(0.03)	(0.03)	(0.04)	
adjusted R2	0.30	0.29	0.29	0.29	0.29	0.21	
N	6769	7507	6425	16456	13635	10520	

Table C.7. Descriptive statistics of estimation sample, Egypt

Variables		2012-2015	5		2015-2017			2017-2020		
variables	2012	2015	diff	2015	2017	diff	2017	2020	diff	
Log of nor conite consumption	8.58	8.97	0.4***	8.95	9.32	0.4***	9.30	9.48	0.2***	
Log of per capita consumption	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	
Hand's age	41.32	43.97	2.7***	42.23	44.20	2.0***	43.14	42.89	-0.3*	
Head's age	(0.12)	(0.09)	(0.1)	(0.09)	(0.09)	(0.1)	(0.09)	(0.10)	(0.1)	
Head is female	0.13	0.13	0.0	0.12	0.13	0.0	0.12	0.13	0.0	
rieau is ieiliaie	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	
Hand's highest advection level is primary	0.13	0.15	0.0***	0.15	0.15	0.0	0.15	0.14	-0.0***	
Head's highest education level is primary	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	
Head's highest advection level is secondary	0.31	0.34	0.0**	0.35	0.36	0.0	0.37	0.37	0.0	
Head's highest education level is secondary	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	
Head's highest advection level is tentions	0.20	0.19	-0.0	0.19	0.18	-0.0	0.18	0.21	0.0***	
Head's highest education level is tertiary	(0.01)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	
I Juhan auga	0.42	0.42	-0.0	0.41	0.42	0.0	0.41	0.43	0.0**	
Urban area	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	

Table C.8 Descriptive statistics of estimation sample, Iraq

		2007-2012			
	2007	2012	diff		
Log of per cenite consumption	14.22	14.67	0.1***		
Log of per capita consumption	(0.01)	(0.01)	(0.0)		
II . P	40.46	44.28	1.7***		
Head's age	(0.07)	(0.06)	(0.2)		
TT 1: C 1	0.09	0.09	0.0		
Head is female	(0.00)	(0.00)	(0.0)		
Headle highest advection level is mimory	0.41	0.40	0.0***		
Head's highest education level is primary	(0.00)	(0.00)	(0.0)		
TT dia hi shaat adaasti aa laasti a aasaa daas	0.12	0.08	-0.0		
Head's highest education level is secondary	(0.00)	(0.00)	(0.0)		
TTdla hishkduki ll is kki	0.19	0.15	-0.0***		
Head's highest education level is tertiary	(0.00)	(0.00)	(0.0)		
I Libert and	0.68	0.60	-0.1***		
Urban area	(0.00)	(0.00)	(0.0)		

Table C.9 Descriptive statistics of estimation sample, Jordan

		2010-2013			
	2010	2013	diff		
Log of nor conite consumption	7.29	7.35	0.1***		
Log of per capita consumption	(0.01)	(0.01)	(0.0)		
Head's age	41.00	42.72	1.7***		
Head's age	(0.18)	(0.14)	(0.2)		
Tr., 1', 6,1.	0.09	0.09	0.0		
Head is female	(0.01)	(0.00)	(0.0)		
Headle highest advection level is mimory	0.51	0.55	0.0***		
Head's highest education level is primary	(0.01)	(0.01)	(0.0)		
Handle highest advection level is secondary	0.16	0.15	-0.0		
Head's highest education level is secondary	(0.01)	(0.01)	(0.0)		
Handle highest advection level is testions	0.23	0.19	-0.0***		
Head's highest education level is tertiary	(0.01)	(0.01)	(0.0)		
I I do an a second	0.74	0.63	-0.1***		
Urban area	(0.01)	(0.01)	(0.0)		

Table C.10 Descriptive statistics of estimation sample, Mauritania

	2004-2008				2008-2014			2014-2019			
	2004	2008	diff	2008	2014	diff	2014	2019	diff		
Log of nor conite consumption	11.66	12.09	0.4***	12.10	12.54	0.4***	12.56	12.68	0.1***		
Log of per capita consumption	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)		
Head`s age	42.41	43.90	1.5***	41.90	46.40	4.5***	42.42	45.49	3.1***		
nead s age	(0.10)	(0.08)	(0.1)	(0.08)	(0.10)	(0.1)	(0.10)	(0.11)	(0.1)		
Head is female	0.16	0.29	0.1***	0.30	0.30	0.0	0.31	0.37	0.1***		
Head is female	(0.00)	(0.00)	(0.0)	(0.00)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)		
Head's highest education level is primary	0.10	0.11	0.0	0.12	0.12	-0.0	0.14	0.29	0.1***		
Head's highest education level is primary	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.01)	(0.0)		
Head's highest education level is secondary	0.13	0.13	-0.0	0.13	0.13	0.0	0.15	0.19	0.0***		
Head's highest education level is secondary	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)		
Head's highest advection level is tentions	0.05	0.05	0.0	0.05	0.05	0.0**	0.05	0.06	0.0		
Head's highest education level is tertiary	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)		
Linkon and	0.51	0.48	-0.0***	0.47	0.59	0.1***	0.59	0.50	-0.1***		
Urban area	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)		

Table C.11. Descriptive statistics of estimation sample, Palestine

	2007-2009			2009-2011			2011-2017		
	2007	2009	difference	2009	2011	difference	2011	2017	difference
Log of nor conite consumption	8.78	9.06	0.3***	9.06	9.13	0.1***	9.13	9.23	0.1***
Log of per capita consumption	(0.02)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)
Head's age	40.03	40.72	0.7**	39.80	41.65	1.9***	40.71	44.94	4.2***
Head's age	(0.25)	(0.15)	(0.3)	(0.15)	(0.14)	(0.2)	(0.14)	(0.16)	(0.2)
Head is female	0.06	0.06	0.0	0.06	0.07	0.0*	0.07	0.08	0.0
Head is female	(0.01)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)
Hand's highest advection level is primary	0.55	0.50	-0.0***	0.50	0.51	0.0	0.51	0.51	-0.0
Head's highest education level is primary	(0.02)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)
Head's highest advection level is secondary	0.18	0.17	-0.0	0.17	0.18	0.0	0.18	0.16	-0.0**
Head's highest education level is secondary	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)
Hand's highest advection level is terriory	0.17	0.22	0.0***	0.21	0.22	0.0	0.22	0.23	0.0
Head's highest education level is tertiary	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)
Urban area	0.54	0.70	0.2***	0.70	0.53	-0.2***	0.53	0.56	0.0***
Ofban area	(0.02)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)
Defugee error	0.18	0.12	-0.1***	0.12	0.21	0.1***	0.21	0.12	-0.1***
Refugee area	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)	(0.01)	(0.01)	(0.0)

Table C.12. Descriptive statistics of estimation sample, Tunisia

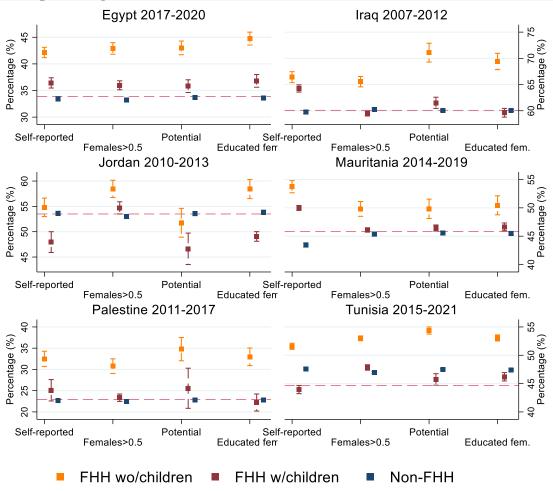
<u>-</u>	2005-2010				2010-2015		2015-2021			
	2005	2010	diff	2010	2015	diff	2015	2021	diff	
Log of per cenite consumption	7.23	7.58	0.4***	7.55	7.98	0.4***	7.96	8.36	0.4***	
Log of per capita consumption	(0.01)	(0.01)	(0.0)	(0.01)	(0.00)	(0.0)	(0.01)	(0.01)	(0.0)	
Head's age	43.55	46.72	3.2***	44.24	47.23	3.0***	44.32	48.40	4.1***	
Head 8 age	(0.09)	(0.09)	(0.1)	(0.09)	(0.06)	(0.1)	(0.06)	(0.08)	(0.1)	
Head is female	0.12	0.11	-0.0*	0.11	0.11	0.0	0.10	0.12	0.0***	
Head is female	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	
Handla highest advection level is mimory	0.04	0.03	-0.0***	0.03	0.46	0.4***	0.44	0.44	0.0	
Head's highest education level is primary	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	
Head's highest education level is secondary	0.14	0.11	-0.0***	0.12	0.30	0.2***	0.32	0.32	0.0	
Head's highest education level is secondary	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	
II. de bishest desetion level is tention.	0.08	0.09	0.0	0.09	0.11	0.0***	0.12	0.12	0.0	
Head's highest education level is tertiary	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	
I Juhan anaa	0.65	0.66	0.0	0.65	0.62	-0.0***	0.61	0.62	0.0**	
Urban area	(0.01)	(0.01)	(0.0)	(0.01)	(0.00)	(0.0)	(0.00)	(0.00)	(0.0)	

Table C.13. Estimated rho (ρ) from cross-sectional data

Country	Period	$oldsymbol{ ho}$	Alternative $ ho$
	2012-2015	0.84	0.52
Egypt	2015-2017	0.89	0.46
	2017-2020	0.79	0.61
	2007-2009	0.54	0.56
Palestine	2009-2011	0.62	0.66
	2011-2017	0.34	0.59
	2005-2010	0.57	0.67
Tunisia	2010-2015	0.73	0.65
	2015-2021	0.89	0.61
	2004-2008	0.77	0.57
Mauritania	2008-2014	0.63	0.56
	2014-2019	0.70	0.61
Iraq	2007-2012	0.68	0.37
Jordan	2010-2013	0.63	0.63

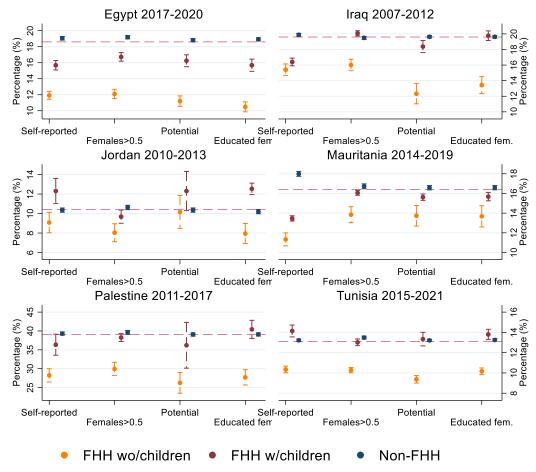
Note: ρ are estimated using Equation (C5) for all countries with cohorts being defined by age interacted with household heads' education. Alternative ρ 's are estimated using Equation (C6).

Figure C.1. Probabilities of Female-Headed Households Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage)



Note: Estimates are obtained with synthetic panel data and weighted with population weights where the second survey round is used as the base year. The figure shows the percentage of the population that moves out of poverty in the second year. FHH characteristics are measured in second period. Dashed red lines represent the national average for each period. Household heads' ages are restricted to 25-55 for the first survey round and adjusted accordingly for the second survey round. Standard errors are estimated with 1,000 bootstraps. ρ 's are estimated using Equation (C6).

Figure C.2. Probabilities of Female-Headed Households Falling in Poverty in Second Year Conditional on Being Non-poor in First Year (percentage)



Note: Estimates are obtained with synthetic panel data and weighted with population weights where the second survey round is used as the base year. The figure shows the percentage of the population that enters poverty in the second year. FHH characteristics are measured in second period. Dashed red lines represent the national average for each period. Household heads' ages are restricted to 25-55 for the first survey round and adjusted accordingly for the second survey round. Standard errors are estimated with 1,000 bootstraps. ρ 's are estimated using Equation (C6).

Appendix D: Further analysis with equivalence scale

Given our consistent observation of self-reported FHHs having an advantage in terms of greater mobility, the question arises as to whether this conclusion remains valid if we extend to selecting a measure of household members' welfare that goes beyond household expenditure per capita.

Within the context of poverty dynamics, we show two scenarios for self-reported FHHs as an example: one in which FHHs have a greater probability to escape poverty compared to non-FHHs (denoted by the orange-shaded region in Figure D.1), and another where FHHs are less likely to escape poverty than non-FHHs (represented by the blue-shaded area in Figure D.1). Importantly, the selection of specific scale parameters can significantly alter the conclusions drawn regarding poverty dynamics among FHHs.

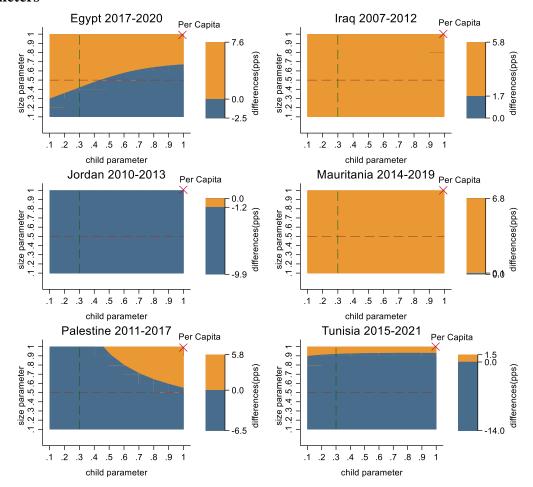
In particular, when assessing consumption on a per capita basis (i.e., when β =1 and θ =1), self-reported FHHs consistently exhibit a higher probability of escaping poverty than non-FHHs and it holds true across all countries. Intriguingly, these findings align with those in Abanokova *et al.* (2022), which demonstrated a persistent upward mobility when income is evaluated on a per capita basis.

The conclusions regarding poverty dynamics shift when adopting OECD-recommended (modified) equivalence scales, which assign a value of 0.3 to each child aged 0-13 (indicated by the green dashed line) and/or the "square root scale" set at 0.5 (represented by the red dashed line). Under the "square root scale," self-reported FHHs become less likely to escape poverty than non-FHHs in Jordan, Palestine, and Tunisia, regardless of the child parameter value. The use of a lower scale parameter than the "square root scale" alters the conclusion in Egypt, but the sensitivity to the child parameter is also observed. Significant sensitivity to the child parameter is found in Palestine. When the child parameter is set to 0.4 or lower, there is a shift in the scenario from FHHs experiencing upward mobility to FHHs facing downward mobility. However, varying the parameters of economies of scale and child parameters from 0 to 1 does not alter the conclusions regarding poverty dynamics for Mauritania, Iraq and Jordan.

The absolute difference in the percentage of the population transitioning out of poverty between FHHs and non-FHHs is also influenced by the scale parameters. In the case of Mauritania, where self-reported FHHs are more likely to escape poverty than non-FHHs, fluctuations in scale parameters can result in significant changes in the percentage of self-reported FHHs escaping poverty. These variations can yield a discrepancy of up to 6.8 percentage points, depending on the scale parameters applied.

The overarching finding is that the parameter dictating the economies of scale and the private—public nature of household consumption contributes non-trivially to the poverty ranking between FHHs and non-FHHs across most countries and FHH definitions, while the child parameter having a comparatively smaller impact compared to household size. These results mirror our earlier observation in Abanokova *et al.* (2022) regarding the sensitivity of income dynamics to scale parameters.

Figure D.1. Self-reported FHHs- non-FHHs Differences in Probabilities of Escaping Poverty in Second Year Conditional on Being Poor in First Year (percentage points), by Scale Parameters



Note: Each figure shows 2-parameter equivalence scale that adjusts household consumption: $(a_{ij} + \alpha k_{ij})^{\delta}$ where α -number of adults in the household, k – number of children in the household, α is "child parameter" that accounts for the needs of children aged 0-13 and δ is "size parameter" that measures the degree of economies of scale in household consumption. Both parameters are varying between 0 and 1. The blue zone indicates lower probabilities of escaping poverty among FHHs compared to non-FHHs. The orange zone indicates higher probabilities of escaping poverty among FHHs compared to non-FHHs in the second year (expressed in percentage points). We use OECD recommended (modified) equivalence scale that assigns a value of 0.3 to each child aged 0-13 (green dashed line) and "square root scale" that equals to 0.5 (red dashed line). The top right corner of the box (marked \times) illustrates the case when $\delta = 1$ and $\alpha = 1$, which represents per capita expenditure ("Per Capita").