

Survey Design and Sampling: A methodology note for the 2015-16 surveys of Syrian refugees and host communities in Jordan, Lebanon and Kurdistan, Iraq

Authors: Nandini Krishnan, Juan Munoz, Flavio Russo Riva, Dhiraj Sharma and Tara Vishwanath¹

Abstract. This paper briefly describes the sampling strategy and survey design implemented in the 2015-16 surveys of Syrian refugees and host communities in Jordan, Lebanon and the Kurdistan region of northern Iraq. The three surveys were designed to generate comparable findings on the lives and livelihoods of Syrian refugees and host communities in the three settings. The absence of updated national sample frames and the lack of a comprehensive mapping of the forced displaced within these countries posed challenges for the design of these surveys. This methodology paper describes the strategy implemented in the three contexts to generate known ex-ante selection probabilities through a variety of data sources, the use of geospatial segmenting to create enumeration areas where they did not exist, and to use data collected by humanitarian agencies to generate sample frames for displaced populations. The strategies implemented in these surveys can be useful in designing similar exercises in contexts of forced displacement.

1. Introduction

As of April 2018, the United Nations High Commissioner for Refugees (UNHCR) reports that an estimated 6.6 million Syrians are internally displaced within the country, that over 5.6 million Syrians have fled to seek refuge in other countries, of which around 8% are accommodated in camps.² In addition to these official figures, there are anywhere from 0.4 to 1.1 million unregistered Syrian refugees in Lebanon and Jordan, and an estimated one million Syrian asylum-seekers in Europe.³ In effect, more than half of Syria's pre-war population has been forcibly displaced since the beginning of the Syrian civil war.

The Syrian crisis has caused one of the largest episodes of forced displacement since World War II and some of the densest refugee-hosting situations in modern history.

¹ The findings, interpretations and conclusions expressed herein are those of the authors and do not necessarily reflect the view of the World Bank Group, its Board of Directors or the governments they represent.

² <http://www.unhcr.org/en-us/syria-emergency.html>

³ According to a 2014 background paper on Unregistered Syrian Refugees in Lebanon, from the Lebanon Humanitarian INGO Forum, "general estimates and media reports citing unnamed Lebanese officials put the number of Syrians living in Lebanon and not registered with UNHCR between 200,000 and 400,000, although the reliability of and sources for these estimates—which do not distinguish between those in need of protection and/or assistance and those not in need—are unknown". The paper cites a range of estimates (from around 10 percent to 50 percent) based on data from various sources, with differing coverage and survey periods. The 2015 Jordanian census estimated 500,000-600,000 more Syrians than the numbers registered with UNHCR.

Syria's immediate neighbors host the bulk of Syrian refugees: Turkey, Lebanon, and Jordan rank in the top five countries globally for the number of refugees hosted – according to UNHCR data, as of June 2018, Turkey hosted 3.5 million Syrian refugees, Lebanon 0.97 million, and Jordan 0.66 million. In fact, Lebanon and Jordan hold the top two slots for per-capita recipients of refugees in the world, at 180 and 87 refugees per 1,000 inhabitants, respectively (UNHCR Global Trends, 2015).⁴ The influx into these countries has also occurred at a more rapid rate than prior refugee crises. At one point in the conflict, an average of 6,000 Syrians were fleeing into neighboring countries every day.⁵ Beyond the immediate impact of inflow of refugees, the host countries are also dealing with other consequences of the Syrian conflict, including the disruption on trade and economic activity and growth and spread of the Islamic State (also called ISIS) in Iraq. While the Kurdish Region of Iraq (KRI) hosts at least 200,000 Syrian refugees, the ISIS-induced displacement from neighboring parts of Iraq means that KRI is now hosting over 2.25 million displaced persons, approximately 40-50 percent of its population.

While each neighboring country has received many Syrian refugees in both absolute and relative terms, that is where the commonality ends. Each country has responded to the influx in its own way, influenced by its previous experience of handling protracted displacement situations. Given its history of encampment of the displaced Palestinian population, Lebanon has refrained from setting up camps for Syrians. There is also understandable wariness and anxiety of the impact the influx may have in the delicate domestic political power-sharing equilibrium. In KRI, the influx of Syrian refugees overlaps with a significant number of Iraqi citizens seeking a safe haven from the ISIS militants. The refugees and IDPs are located both in camps and non-camps, with a very porous camp boundary that allows its residents to move freely and work outside the camp. At the time of the survey, Jordan had an explicit policy to house refugees in camps and few refugees have legal residency and/or work permits, although a significant majority of refugees had moved outside the camps.

Creating an evidence base to frame the policies for refugees in host environment requires a sampling methodology to select a sample that represents both the host and refugee populations. There are several challenges associated with conducting a representative survey of the host community population *and* the forcibly displaced. In all three settings we consider, a reliable and updated sampling frame for the resident population was not available.⁶ No sample frames existed for forcibly displaced populations as they were excluded from available national sampling frames. Databases maintained by humanitarian agencies for internal programming purposes are often incomplete and out of date. The displaced also have high degree of mobility and they are often unwilling to speak to surveyors. In this context, and in similar contexts of forced displacement, the selection of a representative sample of hosts and the displaced becomes a major challenge to drawing credible inferences about their socio-economic outcomes.

⁴ Since these figures are based on official UNHCR registration numbers, they do not reflect the unknown number of unregistered refugees, as already noted in footnote 2. At the end of 2014, the United Nations estimated that registered Syrian refugees represented 29 percent of the total population in Lebanon and 9.5 percent of the total population in Jordan. Areas with the largest number of Syrians, such as the Bekaa Valley in Lebanon, have seen much higher proportions of refugees to local citizens.

⁵ Quoted by the UN High Commissioner for Refugees in a speech to the United Nations Security Council in 2013.

⁶ The last official population census in Lebanon was in 1932 and the available sampling frames were also considerably dated in Jordan and KRI.

In this paper, we describe the strategies that had to be devised to overcome these challenges when designing the sampling procedure for the *Syrian Refugee and Host Community Surveys* (SRHCS), which were implemented over 2015-16 in Lebanon, Jordan and the Kurdistan region of Iraq. The goals of the survey originally were:

- i. to assess the socio-economic and living conditions of a representative sample of the Syrian refugee and host community population.
- ii. to understand the implications in terms of social and economic conditions on the host communities.
- iii. to identify strategies to support Syrian refugees and host communities in the immediate and longer term.

The remainder of the paper is structured as follows. Section 2 describes in detail the strategy for sampling host community and refugee households in the three settings. Section 3 presents summary statistics describing the populations sampled. Section 4 concludes by drawing general lessons from our experience on sampling forcibly displaced populations.

2. Sampling Strategies

In all three settings, the main challenge to implementing a survey that would yield estimates representative of the refugee and host community populations, was the lack of an updated or comprehensive sample frame, including for hosting populations and especially for displaced populations. In general, the latter were completely missing from existing national sample frames. None of the three countries had at the time, a recent population and housing census, duly updated for population growth and movement, which could have provided the frame to choose the survey sample for the hosting community.

Each of the three contexts presented different challenges. Lebanon and Iraq have both not had a census for several decades and existing sample frames were out of date at the time of the SRHCS. In Lebanon, information from this sample frame was not available at low levels of geographic disaggregation, while in Iraq, internal displacement of millions of Iraqis had made existing frames obsolete. In Jordan, while census exercises are undertaken every decade, data from the most recent census was not available for the SRHCS, and we had to rely on a relatively outdated sample frame based on the 2005 census. Differences in the distribution of Syrian refugees across the three contexts implied a country-specific approach as well. In Lebanon, there were no refugee camps for Syrians; in Jordan, there were two main refugee camps for Syrians; and in Kurdistan, Iraq, Syrians as well as Iraqi internally displaced people (IDPs) lived in a number of camps, but were also free to move in and out.

In Lebanon and Kurdistan, auxiliary information on spatial distribution of refugees and IDPs available from the United Nations High Commission for Refugees (UNHCR) and the International Organization for Migration (IOM), was merged with the sampling frame. Sub-district level refugee and IDP prevalence information was used to stratify sub-districts by intensity of prevalence: low, middle, and high. The sample was further stratified into subgroups of interest, depending on the context. In Lebanon, the survey was representative of the host community and the Syrian refugee population. In Kurdistan, the scope of the survey was expanded to include IDPs, so that the survey was representative of the host community, Syrian refugees inside and outside of camps, and IDPs inside and outside of camps.

In what follows, we detail the sampling strategy for Lebanon, which was the most complicated, and then describe the strategy for the other two contexts.

Lebanon. Conducting a representative survey in Lebanon was especially challenging. The first difficulty was that, as of 2015, there was no recent or reliable sample frame, even for Lebanese households, as the last official population census was conducted in 1932. Typically, such a sample frame consists of the universe of enumeration areas in a country, with associated estimates of population. This meant that we had to construct our own sample frame by selecting a few Small Area Units (SAUs) and then conducting a full listing operation by visiting every household within the selected SAUs and collecting basic demographic and contact information. The second difficulty was that there was no available cartographic division of the country into geographic areas small enough to be the subject of a full listing operation, which could then serve as a sampling frame for the SAUs. *Circonscription Foncières (CF)* were the finest level of disaggregation available; CFs are generally too large to be listed as some have populations of over 100,000. Finally, there was no available sampling frame for Syrian refugees in Lebanon, which meant that we had to depend on UNHCR data on registered Syrian refugees, combined with the estimates of Lebanese population at the CF level. Given these challenges and time and budgetary constraints, the sample was selected in multiple (four) stages as described below.

A. First sampling stage

The sample frame for the first stage is the list of 1,301 CFs published by the Council for Development and Reconstruction (CDR) in 2004 and the 2014 UNHCR registration database. Each CF is identified by way of its administrative affiliation – Kaza, Qadha and Mohafza. The UNHCR database reports the total population in each CF, as well as the number of Lebanese and Syrian population in each.^{7,8,9} The CF cartographic boundaries are described digitally in a linked Geographic Information System shape file.

The CFs were sorted into three strata depending on their ex-ante prevalence of Syrian population, as follows:

- **Low prevalence:** where the Syrian population accounted for less than 20% of the total population;
- **Medium prevalence:** where the Syrian population accounted for between 20% and 50% of the total population;
- **High prevalence:** where the Syrian population accounted for over 50% of the total population.

Prevalence of Syrian refugees at the CF level was defined as the number of registered Syrian refugees from the 2014 UNHCR database divided by the sum of the number of registered Syrian refugees and the 2004 Lebanese population counts from the CDR database. The first columns of **Error! Reference source not found.** show the distribution

⁷ Lebanese population distribution by cadasters, supplied by CDR Shapefile (2002-03); Population estimate of Lebanese 4 million referenced in the Lebanon Crisis Response Plan (LCRP).

⁸ Total population of Syrian refugees as reported by the UNHCR registration database as of December 2014.

⁹ Total population of Palestinian refugees in Lebanon (PRL) estimated between 260,000 and 280,000 (UNRWA-AUB, 2010). Database provided the population distribution by camps and gatherings. In addition, the total population of Palestinian refugees from Syria is estimated to be 43,000 according to the UNRWA; UNHABITAT UNDP study on gatherings.

of the CFs into strata, as well as the population in each stratum, as per the UNHCR database.

Our intention was to select 75 CFs in total. The decision of how to distribute them across the 3 strata faced the classical dilemma of whether to do it in proportion to the population of the strata, which would deliver nearly optimal estimates for the country as a whole, or to allocate the same sample size (ie 25 CFs) to each stratum, which would deliver estimates of nearly the same quality for each of them. Since both considerations were important for the 2015 SRHCS, we opted to do it in accordance to Markwardts's rule (also known as the "50/50 equal/proportional allocation"), which is generally considered a good compromise between the two extremes. The last three columns in **Error! Reference source not found.** show the chosen allocation, the corresponding sample sizes (in number of households), and the expected maximum margins of error.¹⁰

Within each stratum, CFs were selected for inclusion with probability proportional to size (PPS), using the total population as a measure of size, and with implicit stratification by administrative units (Kaza, Qadha and Mohafza). Some of the large CFs were selected more than once. For instance, there were 34 selections made from among the "low prevalence" CFs (as per Table 1), and one extremely populous CF (Chiyah, located in Mount Lebanon) was randomly selected three times. As a result, the 75 selections were drawn from 71 different CFs. Annex Table 1 shows the list of sampled CFs, where the last column indicates the number of times each CFs was selected in the sample (e.g. one, two or three times depending on each case). Annex **Error! Reference source not found.** shows the geographical distribution of the selected sample CFs across the country.

B. Segmentation of Circonscriptions Foncières (PSUs)

Given that CFs are larger in size than typical census Enumeration Areas which are roughly of 200 households each, the majority of the selected sample CFs was too large to be manageable for implementing a complete household listing operation. For this reason, these large CFs were divided into 'super segments' and 'segments' of roughly equal size within each category, using total number of households as a measure of size. The number of households in each 'super segment' or 'segment' was estimated based on observation of height of buildings and estimated population density in each area in the 2015 ESRI World Imagery¹¹ and 2015 Google Earth imagery, combined with local knowledge of these areas.

Based on the estimated measure of size, only five CFs were considered to be too large in size and hence were selected for 'super segmentation'. At a later stage, all CFs and 'super segments' were divided into 'segments' due to their large size. Annex **Error! Reference source not found.** illustrates the segmentation of a CF into 'super segments' and 'segments' of roughly equal number of households within each category.

¹⁰ More precisely, the last column of **Error! Reference source not found.** shows the maximum expected margins of error for the estimation of a household-level prevalence P (such as the percentage of households with children, the percent of households reporting illnesses, etc.) at the 95% confidence level. These are given by $ME = 1.96 [Deff P (1-P) / n]^{0.5}$, where n is the sample size and $Deff$ is the *design effect*, basically due to the tendency of neighboring households to behave similarly in regards the indicator being observed. The column was computed for $Deff = 2$ (a value found in practice for many indicators of interest) and $P = 0.5$ (for which ME is maximum).

¹¹ Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.

C. Second sampling stage: Super Segmentation of Circonscriptions Foncières

In the second stage, the boundaries of the ‘super segments’ in each CF were drawn using the 2015 ESRI World imagery basemap. These boundaries take into account the total estimated household count, as well as natural boundaries such as major roads, rivers, and paths that can easily be recognizable by field teams during the listing operation and implementation of the household questionnaire.

Within each super-segmented CFs, the sample ‘super segments’ were selected with equal probability, based on the assumption that each ‘super segment’ is of roughly equal size. The number of ‘super segments’ selected within each CF was the same as the number of times the corresponding CF was selected in the first sampling stage. For instance, if a CF was selected three times in the first sampling stage, we selected three ‘super segments’ within this CF. Similarly, if a CF was selected only once or twice on the first sampling stage, we correspondingly selected one or two ‘super segments’ on the secondary sampling stage.

Annex Table 2 shows the list of ‘super segments’ within selected CFs, where the ninth column indicates the number of times each CFs was selected in the sample (e.g. one, two or three times depending on each case). The column headed “Prob 2” shows the probability of selecting the ‘super segment’ within each CF.

D. Third sampling stage: Segmentation of Circonscriptions Foncières

In a third stage, the boundaries of the ‘segments’ were drawn for all CFs and selected ‘super segments’ within CFs. Similarly to the process of ‘super segmentation’, boundaries of segments were drawn using the 2015 ESRI World imagery basemap. These boundaries also take into account the total estimated household count, as well as natural boundaries such as major roads, rivers, and paths.

Within each CF or corresponding ‘super segment’, the sample ‘segments’ were selected with equal probability, with the underlying assumption that each ‘segment’ is of roughly equal size. Annex Table 3 shows the list of ‘segments’ for all CFs, where the last column indicates the probability of selecting the ‘segment’ within each CF in the third sampling stage.

E. Fourth sampling stage

The sample frame for the fourth stage is the full list of all households in the sample CF segments. The listing operation consisted of a full enumeration of all physical structures in the area, with each physical structure being classified as a primary or secondary residential dwelling, commercial building, school, hospital, government office etc. The listing operation collected information about the household occupying each residential dwelling, and each household was classified as either a Syrian refugee household or a host community household. Care was also taken to record two households living in the same unit separately.¹²

¹² One segment (in the Saida Ed-Dekermane CF, segment number 61119-0-26) was dropped from the original sample since the field team could not get access to the area due to insecurity and was thus unable to implement the household listing operation. Therefore, the intended sample of 40 household in this segment was distributed among two other similar segments, selecting 20 additional households in each. The selection of these two segments was based on the household listing data and local knowledge provided by the survey firm. The two identified segments are located in Saida Al-Qadima and Mazraa 2 (Beirut) and

To ensure the quality and completeness of the listing operation, enumerators relied on high-resolution paper maps identifying all buildings within each segment. Each building or structure was pre-assigned with a unique identifier. Enumerators then created a record for each residential unit and household following the protocol described in the 2015 SRHCS Manual of Enumerator. The 40 households to be visited by the 2015 SRHCS in each segment (with a target of 20 Syrian refugee and 20 non-Syrian refugee households in each) was selected from the listing data by systematic equal-probability sampling.¹³

F. Selection probabilities and sampling weights

Given the sampling design discussed in the last paragraphs, the probability p_{hizsj} of selecting household $hijzsj$ in segment $hizs$ of super-segment hiz in Circonscription Foncière hi of stratum h is given by:

$$p_{hizsj} = \frac{k_h n_{hi}}{\sum_i n_{hi}} \times \frac{t_{hi}}{T_{hi}} \times \frac{g_{hi}}{G_{hi}} \times \frac{m_{hij}}{n'_{hi}}$$

where the four fractions on the right-hand side respectively represent the probability of selecting the CF in the first stage, and the conditional probabilities of selecting the super-segment, the segment, and the household in the second, third, and fourth stages, and:

- k_h is the number of CFs selected in the stratum (the fifth column in **Error! Reference source not found.**),
- n_{hi} is the number of households in the CF, as per the sample frame (the column headed 'population' in **Error! Reference source not found.**),
- t_{hi} is the number of 'super segments' to be drawn in the CF, as per the first sampling stage (the column headed 'No. super segments selected' in Annex Table 2),
- T_{hi} is the total number of 'super segments' in the CF, as per the segmentation procedure (the column headed 'No. of super segments' in Annex Table 2),
- g_{hi} is the number of segments to be drawn in the CF, as per the second sampling stage (the column headed 'n_segments to draw' in Annex Table 3),
- G_{hi} is the total number of segments in the CF, as per the segmentation procedure in the third sampling stage (the column headed 'n_segments per SSU' in Annex Table 3),
- m_{hij} is the total number of households identified as Syrian refugees during the household listing operation;
- m_{hizsj} is the number of households selected in the segmented CF (with a target 20 Syrian-refugee and 20 non-Syrian-refugee households in this case); or $m_{hij} = m_{hij} + (40 - m_{hij})$

are similar to the Saida Ed-Dekermane segment in that they have: i) a high share of Palestinian refugees; ii) high density of urban population; and iii) high poverty rate.

¹³ After listing, only 15 households were found in segment 31116-11. Therefore, all eligible households were selected for interviewing (full census). The total sample size was reduced by 25, for a total 2,975 sample households.

- n'_{hizs} is the number of households in the segmented CF, as per the household listing operation.

To deliver unbiased estimates from the sample, the data from each household hij should be affected by a sampling weight (or raising factor) w_{hizsj} , equal to the inverse of its selection probability (i.e. $w_{hizsj} = p_{hizsj}^{-1}$).

Kurdistan. Much of the sampling procedure in Kurdistan resembled that of Lebanon, except for one important difference: unlike in Lebanon, the frame for the first stage sample existed in Kurdistan (albeit outdated), and a subset of the enumerations areas had updated population information from the 2012 IHSES survey (which did not take into account subsequent internal displacement). A subsample of the 2012 clusters were selected for our survey, followed by a comprehensive listing exercise to update the frame for second stage sampling. Four strata based on refugee and IDP prevalence were defined as following:

- Low Syrian prevalence ($< 5\%$) and Low IDP prevalence ($< 15\%$)
- Low Syrian prevalence ($< 5\%$) and High IDP prevalence ($\geq 15\%$)
- High Syrian prevalence ($\geq 5\%$) and Low IDP prevalence ($< 15\%$)
- High Syrian prevalence ($\geq 5\%$) and High IDP prevalence ($\geq 15\%$)

In the first stage, within each stratum, enumeration areas were selected with probability proportional to size (PPS) using the number of households reported from the 2012 listing exercise as a measure of size. In the second stage, 18 households per PSU were selected: six Syrian households, six IDP households, and six host community households in each PSU to the extent possible. In areas where there were less than six Syrian or IDP households, the shortfall was met by host community households. The sampling frame for second stage sampling was the complete list of households in the selected EAs from the listing exercise.

Jordan. In contrast to Lebanon and Iraq, Jordan has carried out Population and Housing Censuses on regular intervals, with the last one in late 2015. What was particularly attractive about the latest census from the perspective of sampling was that it explicitly asked about the nationality of all residents. This would have allowed stratification of areas by density of Syrians. However, the original design could not be implemented because we could not access the new sample frame based on the 2015 Jordanian census. The design was then amended to include a representative sample of the Azraq and Za'atari camps (which account for the vast majority of Syrian refugees in camps in Jordan). This sample was complemented by purposive samples of the surrounding governorates, Mafraq and Zarqa, where the sample included areas physically proximate to the camp and other areas with a high number of Syrian refugees. In Amman Governorate, a purposive sample was drawn, combining a geographically distributed sample with a sample of areas with a high prevalence of Syrian refugees per the 2015 census, as indicated by the Jordanian Department of Statistics. Analytically, this implies the insights from Jordan will be limited to camp residents, neighboring areas of the camps, and Amman governorate. For this reason, Amman is left out of the rest of the discussion, where our focus is on relating the innovative approaches that we followed to obtain near-representative sample in absence of recent sampling frame.

3. Survey Design and Descriptive Statistics

The survey instrument was administered across Lebanon, Jordan, and KRI, with slight modifications depending on the structure of refugee living conditions. The survey includes detailed questions on demographics, employment, access to public services, health, migration, and perceptions. The results offer comparisons between a) the refugees before and after displacement, b) host communities before and after the influx, and c) the host communities and the displaced. These enable us to ascertain past and current outcomes to benchmark the host communities prior to the influx; determine whether the displaced differ systematically from the broader population of origin; identify the immediate effect of displacement on the forcibly displaced; and explore how the local influx of the forcibly displaced has shaped host community outcomes.

Tables L1-J3 present descriptive statistics based on SRHCS for each representative sample and setting discussed in the preceding section. We first consider some commonalities in the household samples across settings to illustrate some of the conclusions of the survey (Panel A). Typically, when compared to the host community, Syrian refugees live in larger households that translate into larger dependency ratios. The latter also tend to rely more on income derived from wages (as in Lebanon, Zarqaa and Mafraq) or less on income from business earnings (as in Kurdistan, especially outside camps), and, as expected, more on humanitarian assistance. An overwhelming majority of Syrian refugees (and IDPs in KRI) are not home-owners and rent their dwellings.

Panel B shows that Syrian refugee households in all settings are on average headed by males and these are younger (6 to 8 years). This also seems to be true for IDPs in KRI. In terms of educational attainment, few (less than 20% of) refugees in all settings have completed secondary schooling or more. This is also true when we restrict our attention to labor market respondents from 20 to 60 years old (Panel C). Despite differences in policy, in all settings, a large share of refugees participate in the labor force and work. Finally, and consistent with the reliance of household income on wages, the large majority of forcibly displaced in all settings work for wages without contracts.

4. Conclusion

The three surveys described in this paper were designed to generate comparable findings on the lives and livelihoods of Syrian refugees and host communities in the three settings. The absence of updated national sample frames and the lack of a comprehensive mapping of the forced displaced within these countries posed challenges for the design of these surveys. These challenges are not unique – indeed, most developing countries face similar issues, which are exacerbated at times of large scale internal population movements or in contexts of a large localized or widespread influx of migrants. Such data challenges become particularly stark in countries hosting forcibly displaced populations.

This methodology paper describes the strategy implemented in the three contexts to generate known ex-ante selection probabilities through a variety of data sources, the use of geospatial segmenting to create enumeration areas where they did not exist, and to use data collected by humanitarian agencies to generate sample frames for displaced populations. The strategies implemented in these surveys can be useful in designing similar exercises in contexts of forced displacement. Moreover, this effort shows the

importance of including refugees and non-nationals in national sample frames. The move by Jordan's statistical agency to explicitly include non-nationals in the 2017/18 household survey is a commendable step in the right direction.

Tables and Figures – Main and Annex

Table L1. SRHCS (Lebanon) - Household and household head's characteristics, per refugee status

| | Host Community | | | Syrian Refugees | | |
|--|----------------|-------|-------|-----------------|----|------------------------|
| | N | Mean | SD | Min. | SD | Max. |
| Panel A: Households | | | | | | |
| Size | 1727 | 3.73 | 1.65 | 1 | 18 | 1138 4.57 2.32 1 20 |
| Dependency ratio | 1619 | 0.45 | 0.52 | 0 | 4 | 1124 0.95 0.89 0 7 |
| % Income from wages | 1726 | 47% | 46% | 0 | 1 | 1119 71% 38% 0 1 |
| % Income from business earnings | 1726 | 34% | 44% | 0 | 1 | 1119 6% 22% 0 1 |
| % Income from assistance | 1726 | 1% | 9% | 0 | 1 | 1119 14% 23% 0 1 |
| Any new member since 2010 or since household formation | 1727 | 0.09 | 0.28 | 0 | 1 | 1138 0.24 0.43 0 1 |
| Old members left since 2010 or since household formation | 1660 | 0.24 | 0.43 | 0 | 1 | 1074 0.26 0.44 0 1 |
| Rents dwelling currently | 1727 | 0.26 | 0.44 | 0 | 1 | 1138 1.00 0.07 0 1 |
| Panel B: Household head | | | | | | |
| Male | 1727 | 0.87 | 0.33 | 0 | 1 | 1138 0.90 0.30 0 1 |
| Age | 1727 | 47.83 | 14.45 | 18 | 95 | 1138 39.48 12.09 15 94 |
| Never attended school, illiterate | 1727 | 0.07 | 0.25 | 0 | 1 | 1138 0.15 0.36 0 1 |
| Secondary schooling or more | 1727 | 0.39 | 0.49 | 0 | 1 | 1138 0.14 0.35 0 1 |
| Panel C: Labor market respondents (ages 20-60) | | | | | | |
| Male | 2498 | 0.47 | 0.50 | 0 | 1 | 1742 0.50 0.50 0 1 |
| Age | 2498 | 37.78 | 11.73 | 20 | 60 | 1742 34.10 10.25 20 60 |
| Never attended school, illiterate | 2498 | 0.04 | 0.19 | 0 | 1 | 1742 0.16 0.37 0 1 |
| Secondary schooling or more | 2498 | 0.45 | 0.50 | 0 | 1 | 1742 0.14 0.35 0 1 |
| Participated in the labor force | 2498 | 0.52 | 0.50 | 0 | 1 | 1742 0.51 0.50 0 1 |
| Employed | 2498 | 0.47 | 0.50 | 0 | 1 | 1742 0.44 0.50 0 1 |
| Wage worker (if employed) | 1210 | 0.63 | 0.48 | 0 | 1 | 761 0.93 0.26 0 1 |
| Contract (if wage worker) | 738 | 0.45 | 0.50 | 0 | 1 | 705 0.01 0.07 0 1 |

Notes: Author's own tabulation from SRHCS. All descriptives are computed using sampling weights.

Table K1. SRHCS (Kurdistan) - Household and household head's characteristics, per refugee status

| | Host Community | | | Syrian Refugees (Camp + Non-camp) | | | Internally Displaced (IDPs, Camp + Non-camp) | | | | | | | | |
|--|----------------|-------|-------|-----------------------------------|------|------|--|-------|------|------|------|-------|-------|----|----|
| | N | Mean | SD | Min. | Max. | N | Mean | SD | Min. | Max. | | | | | |
| | | | | | | | | | | | | | | | |
| Panel A: Households | | | | | | | | | | | | | | | |
| Size | 736 | 5.40 | 2.51 | 1 | 16 | 733 | 4.90 | 1.90 | 1 | 15 | 810 | 7.44 | 3.85 | 1 | 20 |
| Dependency ratio | 722 | 0.87 | 0.71 | 0 | 4 | 728 | 0.91 | 0.78 | 0 | 4.5 | 798 | 1.12 | 0.89 | 0 | 5 |
| % Income from wages | 730 | 55% | 45% | 0 | 1 | 715 | 56% | 46% | 0 | 1 | 797 | 47% | 44% | 0 | 1 |
| % Income from business earnings | 730 | 26% | 41% | 0 | 1 | 715 | 17% | 35% | 0 | 1 | 797 | 16% | 32% | 0 | 1 |
| % Income from assistance | 730 | 4% | 17% | 0 | 1 | 715 | 9% | 25% | 0 | 1 | 797 | 9% | 21% | 0 | 1 |
| Any new member since 2010 or since household formation | 736 | 0.09 | 0.28 | 0 | 1 | 733 | 0.12 | 0.32 | 0 | 1 | 810 | 0.06 | 0.24 | 0 | 1 |
| Old members left since 2010 or since household formation | 736 | 0.33 | 0.47 | 0 | 1 | 733 | 0.21 | 0.41 | 0 | 1 | 810 | 0.15 | 0.35 | 0 | 1 |
| Rents dwelling currently | 732 | 0.15 | 0.36 | 0 | 1 | 246 | 0.97 | 0.18 | 0 | 1 | 312 | 0.68 | 0.47 | 0 | 1 |
| Panel B: Household head | | | | | | | | | | | | | | | |
| Male | 736 | 0.93 | 0.25 | 0 | 1 | 733 | 0.90 | 0.30 | 0 | 1 | 810 | 0.90 | 0.30 | 0 | 1 |
| Age | 720 | 46.85 | 14.91 | 16 | 98 | 728 | 39.73 | 12.50 | 18 | 89 | 801 | 43.05 | 13.38 | 17 | 99 |
| Never attended school, illiterate | 720 | 0.22 | 0.42 | 0 | 1 | 728 | 0.19 | 0.40 | 0 | 1 | 801 | 0.22 | 0.41 | 0 | 1 |
| Secondary schooling or more | 736 | 0.24 | 0.42 | 0 | 1 | 733 | 0.15 | 0.35 | 0 | 1 | 810 | 0.13 | 0.33 | 0 | 1 |
| Panel C: Labor market respondents (ages 20-60) | | | | | | | | | | | | | | | |
| Male | 1155 | 0.44 | 0.50 | 0 | 1 | 1255 | 0.46 | 0.50 | 0 | 1 | 1219 | 0.54 | 0.50 | 0 | 1 |
| Age | 1155 | 34.56 | 10.21 | 20 | 60 | 1255 | 33.80 | 9.96 | 20 | 60 | 1219 | 34.84 | 10.65 | 20 | 60 |
| Never attended school, illiterate | 1155 | 0.22 | 0.41 | 0 | 1 | 1255 | 0.20 | 0.40 | 0 | 1 | 1219 | 0.23 | 0.42 | 0 | 1 |
| Secondary schooling or more | 1155 | 0.28 | 0.45 | 0 | 1 | 1255 | 0.21 | 0.41 | 0 | 1 | 1219 | 0.12 | 0.32 | 0 | 1 |
| Participated in the labor force | 1155 | 0.46 | 0.50 | 0 | 1 | 1255 | 0.51 | 0.50 | 0 | 1 | 1219 | 0.50 | 0.50 | 0 | 1 |
| Employed | 1155 | 0.39 | 0.49 | 0 | 1 | 1255 | 0.34 | 0.47 | 0 | 1 | 1219 | 0.33 | 0.47 | 0 | 1 |
| Wage worker (if employed) | 520 | 0.79 | 0.41 | 0 | 1 | 435 | 0.81 | 0.39 | 0 | 1 | 397 | 0.76 | 0.42 | 0 | 1 |
| Contract (if wage worker) | 404 | 0.55 | 0.50 | 0 | 1 | 375 | 0.08 | 0.27 | 0 | 1 | 349 | 0.23 | 0.42 | 0 | 1 |

Notes: Author's own tabulation from SRHCS. All descriptives are computed using sampling weights.

Table K2. SRHCS (Kurdistan) - Household and household head's characteristics, per refugee status, within camps

| | Host Community | | | Syrian Refugees (Camps) | | | Internally Displaced (IDPs, Camps) | | | | | | | | |
|--|----------------|-------|-------|-------------------------|------|------|------------------------------------|-------|----|----|-----|-------|-------|----|----|
| | N | Mean | SD | N | Mean | SD | N | Mean | SD | | | | | | |
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | | | | | | | |
| Panel A: Households | | | | | | | | | | | | | | | |
| Size | 736 | 5.40 | 2.51 | 1 | 16 | 485 | 4.85 | 1.82 | 1 | 11 | 497 | 6.05 | 2.92 | 1 | 16 |
| Dependency ratio | 722 | 0.87 | 0.71 | 0 | 4 | 480 | 1.00 | 0.81 | 0 | 4 | 488 | 1.11 | 0.96 | 0 | 5 |
| % Income from wages | 730 | 55% | 45% | 0 | 1 | 470 | 47% | 47% | 0 | 1 | 485 | 47% | 47% | 0 | 1 |
| % Income from business earnings | 730 | 26% | 41% | 0 | 1 | 470 | 17% | 35% | 0 | 1 | 485 | 11% | 30% | 0 | 1 |
| % Income from assistance | 730 | 4% | 17% | 0 | 1 | 470 | 15% | 30% | 0 | 1 | 485 | 13% | 30% | 0 | 1 |
| Any new member since 2010 or since household formation | 736 | 0.09 | 0.28 | 0 | 1 | 485 | 0.06 | 0.25 | 0 | 1 | 497 | 0.08 | 0.27 | 0 | 1 |
| Old members left since 2010 or since household formation | 736 | 0.33 | 0.47 | 0 | 1 | 485 | 0.16 | 0.36 | 0 | 1 | 497 | 0.22 | 0.42 | 0 | 1 |
| Rents dwelling currently | 732 | 0.15 | 0.36 | 0 | 1 | - | - | - | - | - | - | - | - | - | - |
| Panel B: Household head | | | | | | | | | | | | | | | |
| Male | 736 | 0.93 | 0.25 | 0 | 1 | 485 | 0.89 | 0.32 | 0 | 1 | 497 | 0.84 | 0.37 | 0 | 1 |
| Age | 720 | 46.85 | 14.91 | 16 | 98 | 481 | 40.66 | 13.05 | 18 | 89 | 491 | 40.83 | 14.63 | 17 | 99 |
| Never attended school, illiterate | 720 | 0.22 | 0.42 | 0 | 1 | 481 | 0.25 | 0.44 | 0 | 1 | 491 | 0.42 | 0.49 | 0 | 1 |
| Secondary schooling or more | 736 | 0.24 | 0.42 | 0 | 1 | 485 | 0.12 | 0.32 | 0 | 1 | 497 | 0.10 | 0.31 | 0 | 1 |
| Panel C: Labor market respondents (ages 20-60) | | | | | | | | | | | | | | | |
| Male | 1155 | 0.44 | 0.50 | 0 | 1 | 829 | 0.48 | 0.50 | 0 | 1 | 732 | 0.47 | 0.50 | 0 | 1 |
| Age | 1155 | 34.56 | 10.21 | 20 | 60 | 829 | 34.73 | 9.75 | 20 | 60 | 732 | 33.38 | 10.21 | 20 | 60 |
| Never attended school, illiterate | 1155 | 0.22 | 0.41 | 0 | 1 | 829 | 0.24 | 0.42 | 0 | 1 | 732 | 0.44 | 0.50 | 0 | 1 |
| Secondary schooling or more | 1155 | 0.28 | 0.45 | 0 | 1 | 829 | 0.15 | 0.35 | 0 | 1 | 732 | 0.10 | 0.30 | 0 | 1 |
| Participated in the labor force | 1155 | 0.46 | 0.50 | 0 | 1 | 829 | 0.50 | 0.50 | 0 | 1 | 732 | 0.41 | 0.49 | 0 | 1 |
| Employed | 1155 | 0.39 | 0.49 | 0 | 1 | 829 | 0.30 | 0.46 | 0 | 1 | 732 | 0.28 | 0.45 | 0 | 1 |
| Wage worker (if employed) | 520 | 0.79 | 0.41 | 0 | 1 | 256 | 0.84 | 0.37 | 0 | 1 | 217 | 0.83 | 0.37 | 0 | 1 |
| Contract (if wage worker) | 404 | 0.55 | 0.50 | 0 | 1 | 223 | 0.12 | 0.32 | 0 | 1 | 182 | 0.27 | 0.45 | 0 | 1 |

Notes: Author's own tabulation from SRHCS. All descriptives are computed using sampling weights.

Table K3. SRHCS (Kurdistan) - Household and household head's characteristics, per refugee status, outside camps

| | Host Community | | | Syrian Refugees (Outside camps) | | | Internally Displaced (IDPs, Outside camps) | | | |
|--|----------------|-------|-------|---------------------------------|------|------|--|-------|----|-----|
| | N | Mean | SD | N | Mean | SD | N | Mean | SD | |
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | | |
| Panel A: Households | | | | | | | | | | |
| Size | 736 | 5.40 | 2.51 | 1 | 16 | 248 | 4.97 | 2.01 | 1 | 15 |
| Dependency ratio | 722 | 0.87 | 0.71 | 0 | 4 | 248 | 0.78 | 0.72 | 0 | 4.5 |
| % Income from wages | 730 | 55% | 45% | 0 | 1 | 245 | 69% | 42% | 0 | 1 |
| % Income from business earnings | 730 | 26% | 41% | 0 | 1 | 245 | 18% | 35% | 0 | 1 |
| % Income from assistance | 730 | 4% | 17% | 0 | 1 | 245 | 1% | 8% | 0 | 1 |
| Any new member since 2010 or since household formation | 736 | 0.09 | 0.28 | 0 | 1 | 248 | 0.19 | 0.39 | 0 | 1 |
| Old members left since 2010 or since household formation | 736 | 0.33 | 0.47 | 0 | 1 | 248 | 0.28 | 0.45 | 0 | 1 |
| Rents dwelling currently | 732 | 0.15 | 0.36 | 0 | 1 | 246 | 0.97 | 0.18 | 0 | 1 |
| Panel B: Household head | | | | | | | | | | |
| Male | 736 | 0.93 | 0.25 | 0 | 1 | 248 | 0.93 | 0.26 | 0 | 1 |
| Age | 720 | 46.85 | 14.91 | 16 | 98 | 247 | 38.35 | 11.51 | 20 | 71 |
| Never attended school, illiterate | 720 | 0.22 | 0.42 | 0 | 1 | 247 | 0.10 | 0.31 | 0 | 1 |
| Secondary schooling or more | 736 | 0.24 | 0.42 | 0 | 1 | 248 | 0.19 | 0.40 | 0 | 1 |
| Panel C: Labor market respondents (ages 20-60) | | | | | | | | | | |
| Male | 1155 | 0.44 | 0.50 | 0 | 1 | 426 | 0.42 | 0.49 | 0 | 1 |
| Age | 1155 | 34.56 | 10.21 | 20 | 60 | 426 | 32.55 | 10.11 | 20 | 60 |
| Never attended school, illiterate | 1155 | 0.22 | 0.41 | 0 | 1 | 426 | 0.15 | 0.36 | 0 | 1 |
| Secondary schooling or more | 1155 | 0.28 | 0.45 | 0 | 1 | 426 | 0.29 | 0.46 | 0 | 1 |
| Participated in the labor force | 1155 | 0.46 | 0.50 | 0 | 1 | 426 | 0.52 | 0.50 | 0 | 1 |
| Employed | 1155 | 0.39 | 0.49 | 0 | 1 | 426 | 0.40 | 0.49 | 0 | 1 |
| Wage worker (if employed) | 520 | 0.79 | 0.41 | 0 | 1 | 179 | 0.78 | 0.41 | 0 | 1 |
| Contract (if wage worker) | 404 | 0.55 | 0.50 | 0 | 1 | 152 | 0.04 | 0.19 | 0 | 1 |

Notes: Author's own tabulation from SRHCS. All descriptives are computed using sampling weights.

Table J2. SRHCS (Jordan) - Household and household head's characteristics, per refugee status (Zarqaa)

| | Host Community | | | Syrian Refugees (Zarqaa) | | |
|--|----------------|-------|-------|--------------------------|----|------|
| | N | Mean | SD | Min. | SD | Max. |
| Panel A: Households | | | | | | |
| Size | 208 | 5.21 | 2.24 | 1 | 13 | 14 |
| Dependency ratio | 201 | 0.87 | 0.82 | 0 | 5 | 6 |
| % Income from wages | 204 | 57% | 46% | 0 | 1 | 1 |
| % Income from business earnings | 204 | 12% | 31% | 0 | 1 | 0.9 |
| % Income from assistance | 204 | 6% | 23% | 0 | 1 | 1 |
| Any new member since 2010 or since household formation | 208 | 0.08 | 0.27 | 0 | 1 | 1 |
| Old members left since 2010 or since household formation | 208 | 0.20 | 0.40 | 0 | 1 | 1 |
| Rents dwelling currently | 207 | 0.27 | 0.45 | 0 | 1 | 1 |
| | 208 | 0.02 | 0.15 | 0 | 1 | 1 |
| Panel B: Household head | | | | | | |
| Male | 209 | 0.85 | 0.36 | 0 | 1 | 1 |
| Age | 205 | 50.14 | 14.26 | 21 | 89 | 81 |
| Never attended school, illiterate | 204 | 0.10 | 0.30 | 0 | 1 | 1 |
| Secondary schooling or more | 209 | 0.40 | 0.49 | 0 | 1 | 1 |
| Panel C: Labor market respondents (ages 20-60) | | | | | | |
| Male | 319 | 0.46 | 0.50 | 0 | 1 | 1 |
| Age | 319 | 36.91 | 10.51 | 20 | 60 | 60 |
| Never attended school, illiterate | 319 | 0.04 | 0.19 | 0 | 1 | 1 |
| Secondary schooling or more | 319 | 0.50 | 0.50 | 0 | 1 | 1 |
| Participated in the labor force | 319 | 0.39 | 0.49 | 0 | 1 | 1 |
| Employed | 319 | 0.30 | 0.46 | 0 | 1 | 1 |
| Wage worker (if employed) | 94 | 0.89 | 0.31 | 0 | 1 | 1 |
| Contract (if wage worker) | 84 | 0.31 | 0.47 | 0 | 1 | 1 |

Notes: Author's own tabulation from SRHCS. All descriptives are computed using sampling weights.

Table J3. SRHCS (Jordan) - Household and household head's characteristics, per refugee status (Mafrag)

| | Host Community | | | Syrian Refugees (Mafrag) | | |
|--|----------------|-------|-------|--------------------------|----|------|
| | N | Mean | SD | Min. | SD | Max. |
| Panel A: Households | | | | | | |
| Size | 346 | 5.55 | 2.21 | 1 | 12 | 18 |
| Dependency ratio | 342 | 0.89 | 0.78 | 0 | 5 | 8 |
| % Income from wages | 345 | 60% | 44% | 0 | 1 | 1 |
| % Income from business earnings | 345 | 4% | 18% | 0 | 1 | 1 |
| % Income from assistance | 345 | 4% | 18% | 0 | 1 | 1 |
| Any new member since 2010 or since household formation | 346 | 0.04 | 0.20 | 0 | 1 | 1 |
| Old members left since 2010 or since household formation | 346 | 0.20 | 0.40 | 0 | 1 | 1 |
| Rents dwelling currently | 346 | 0.08 | 0.27 | 0 | 1 | 1 |
| | 346 | 0.00 | 0.05 | 0 | 1 | 1 |
| Panel B: Household head | | | | | | |
| Male | 347 | 0.90 | 0.30 | 0 | 1 | 1 |
| Age | 342 | 46.09 | 13.76 | 20 | 91 | 87 |
| Never attended school, illiterate | 342 | 0.12 | 0.33 | 0 | 1 | 1 |
| Secondary schooling or more | 347 | 0.36 | 0.48 | 0 | 1 | 1 |
| Panel C: Labor market respondents (ages 20-60) | | | | | | |
| Male | 562 | 0.49 | 0.50 | 0 | 1 | 1 |
| Age | 562 | 34.52 | 9.62 | 20 | 60 | 60 |
| Never attended school, illiterate | 562 | 0.04 | 0.19 | 0 | 1 | 1 |
| Secondary schooling or more | 562 | 0.50 | 0.50 | 0 | 1 | 1 |
| Participated in the labor force | 562 | 0.51 | 0.50 | 0 | 1 | 1 |
| Employed | 562 | 0.38 | 0.49 | 0 | 1 | 1 |
| Wage worker (if employed) | 211 | 0.94 | 0.24 | 0 | 1 | 1 |
| Contract (if wage worker) | 198 | 0.48 | 0.50 | 0 | 1 | 1 |

Notes: Author's own tabulation from SRHCS. All descriptives are computed using sampling weights.

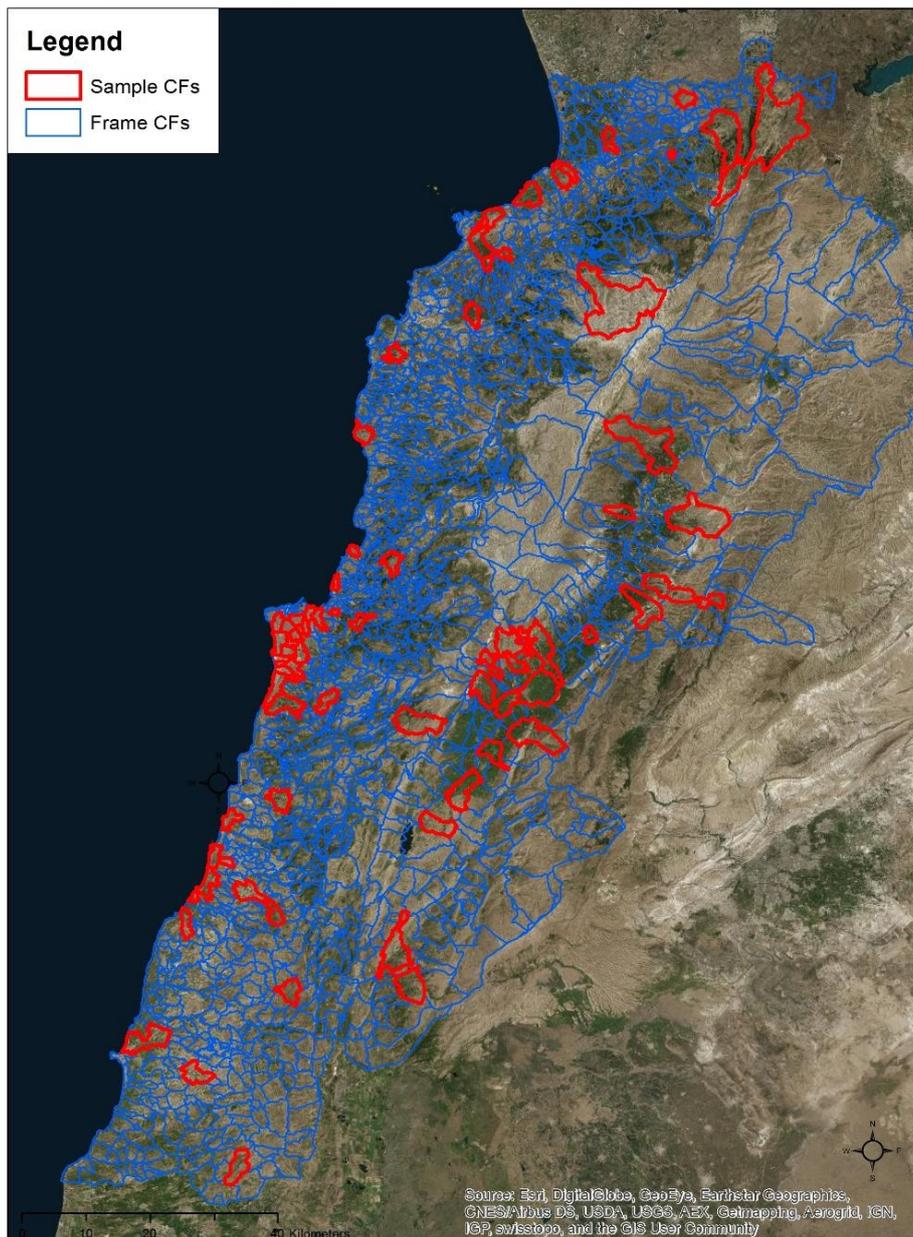
| Syrian Refugee and Host Community Survey 2015 | | | | | | |
|---|-------------|--------------|------------|-------------------|-------------------|-----------------|
| Stratum | Prevalence | Sample Frame | | No. of selections | Sample size (HHs) | Margin of error |
| | | No. of CFs | Population | | | |
| 1. Low prevalence | ≤ 0.20 | 946 | 3,003,958 | 34 | 1,360 | 3.76% |
| 2. Medium prevalence | 0.21 – 0.50 | 273 | 1,039,171 | 24 | 960 | 4.47% |
| 3. High prevalence | 0.51 – 1.00 | 82 | 465,867 | 17 | 680 | 5.31% |
| Total | | 1,301 | 4,508,995 | 75 | 3,000 | 2.53% |

Annex Table 1. List of Selected Segments (Enumeration Areas)

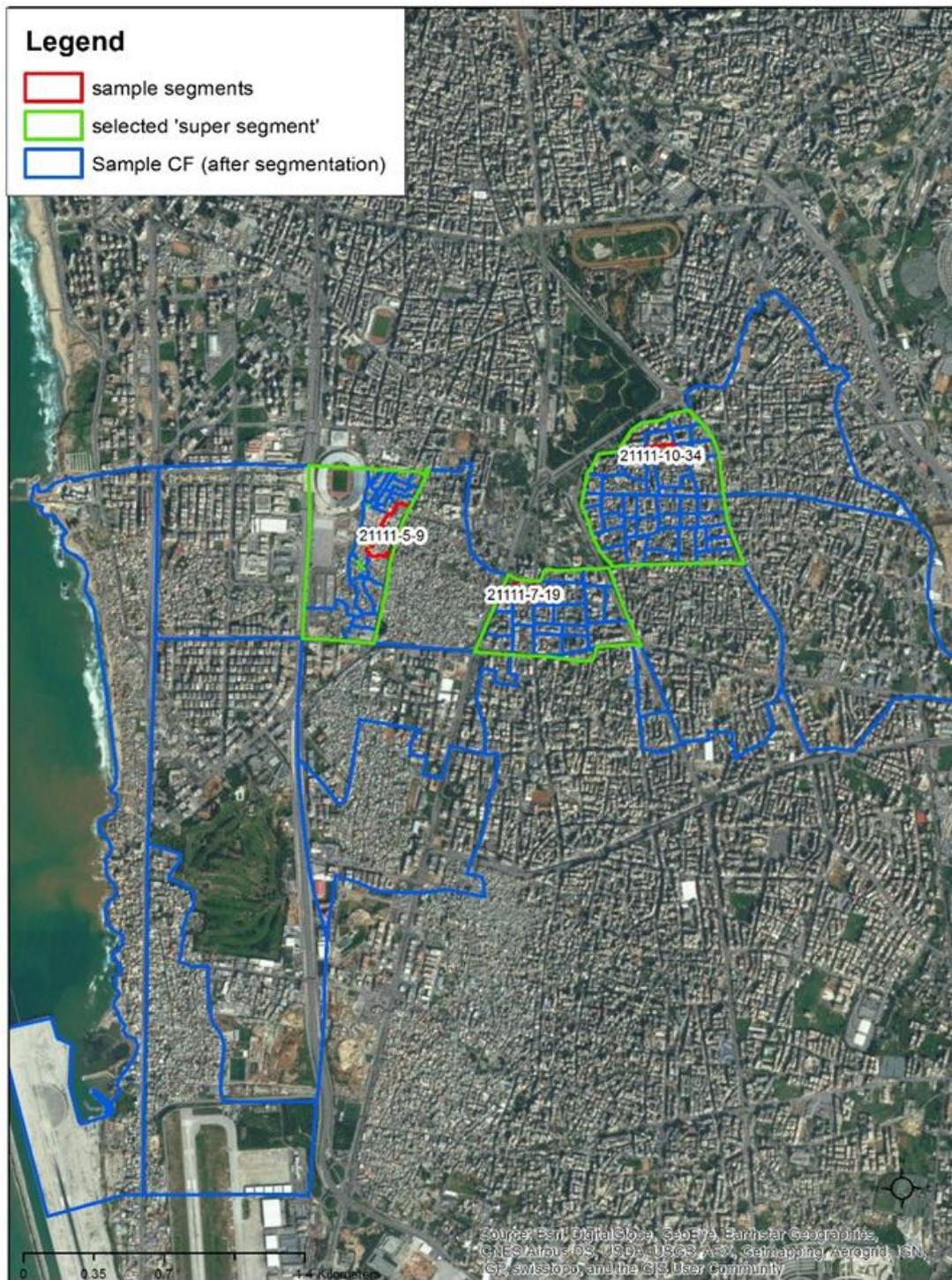
| Segment serial number | CF CAS code | CF name | Qadha name | Mohazfa Name | Total Syrian population (combined CF) | Total population (combined CF) | No. of Polygons | Prevalence of Syrians | Stratum 1-3 | Prob 1 | Times associated CF selected |
|-----------------------|-------------|------------------------|-------------|---------------|---------------------------------------|--------------------------------|-----------------|-----------------------|-------------|---------|------------------------------|
| 1 | 10210 | Msaitbé foncière | Beirut | Beirut | 3,508 | 93,838 | 1 | 0.04 | 1 | 0.98263 | 1 |
| 2 | 10310 | Mazraa foncière | Beirut | Beirut | 12,410 | 125,792 | 1 | 0.10 | 1 | 1.31724 | 2 |
| 3 | 10310 | Mazraa foncière | Beirut | Beirut | 12,410 | 125,792 | 1 | 0.10 | 1 | 1.31724 | 2 |
| 4 | 10650 | Achrafieh foncière | Beirut | Beirut | 3,108 | 71,541 | 1 | 0.04 | 1 | 0.74915 | 1 |
| 5 | 21111 | Chiyah | Baabda | Mount Lebanon | 50,085 | 251,061 | 1 | 0.20 | 1 | 2.62901 | 3 |
| 6 | 21111 | Chiyah | Baabda | Mount Lebanon | 50,085 | 251,061 | 1 | 0.20 | 1 | 2.62901 | 3 |
| 7 | 21111 | Chiyah | Baabda | Mount Lebanon | 50,085 | 251,061 | 1 | 0.20 | 1 | 2.62901 | 3 |
| 8 | 21177 | Bourj El-Brajneh | Baabda | Mount Lebanon | 24,065 | 139,404 | 1 | 0.17 | 1 | 1.45978 | 2 |
| 9 | 21177 | Bourj El-Brajneh | Baabda | Mount Lebanon | 24,065 | 139,404 | 1 | 0.17 | 1 | 1.45978 | 2 |
| 10 | 21219 | Hadath Beyrouth | Baabda | Mount Lebanon | 2,702 | 26,829 | 1 | 0.10 | 1 | 0.28094 | 1 |
| 11 | 22111 | Bourj Hammoud | El Metn | Mount Lebanon | 18,456 | 94,232 | 1 | 0.20 | 1 | 0.98676 | 1 |
| 12 | 22155 | Sinn El-Fil | El Metn | Mount Lebanon | 3,498 | 38,208 | 1 | 0.09 | 1 | 0.40010 | 1 |
| 13 | 22228 | Baouchriyé | El Metn | Mount Lebanon | 7,317 | 72,611 | 1 | 0.10 | 1 | 0.76035 | 1 |
| 14 | 22359 | Byaqout | El Metn | Mount Lebanon | 346 | 3,753 | 1 | 0.09 | 1 | 0.03930 | 1 |
| 15 | 22611 | Broummana El-Matn | El Metn | Mount Lebanon | 980 | 8,844 | 1 | 0.11 | 1 | 0.09261 | 1 |
| 16 | 23469 | Aain Zhalta | Chouf | Mount Lebanon | 164 | 1,910 | 1 | 0.09 | 1 | 0.02000 | 1 |
| 17 | 25111 | Jounié Sarba | Kasrouane | Mount Lebanon | 775 | 15,489 | 1 | 0.05 | 1 | 0.16219 | 1 |
| 18 | 25211 | Aajaltoun | Kasrouane | Mount Lebanon | 401 | 4,554 | 1 | 0.09 | 1 | 0.04769 | 1 |
| 19 | 26141 | Aamchit | Jubail | Mount Lebanon | 791 | 14,288 | 1 | 0.06 | 1 | 0.14962 | 1 |
| 20 | 31116 | Trablous El-Haddadine | Tripoli | North | 1,703 | 53,893 | 1 | 0.03 | 1 | 0.56435 | 1 |
| 21 | 31151 | Trablous El-Qobbe | Tripoli | North | 10,079 | 65,830 | 1 | 0.15 | 1 | 0.68935 | 1 |
| 22 | 32189 | Bkeftine | Koura | North | 77 | 881 | 1 | 0.09 | 1 | 0.00923 | 1 |
| 23 | 35179 | Qboula | Akkar | North | 4 | 616 | 1 | 0.01 | 1 | 0.00645 | 1 |
| 24 | 35487 | Qbaiyat Aakkar | Akkar | North | 568 | 6,973 | 1 | 0.08 | 1 | 0.07302 | 1 |
| 25 | 51131 | Zahlé Haouch El-Oumara | Zahle | Bekaa | 29 | 5,757 | 1 | 0.01 | 1 | 0.06028 | 1 |
| 26 | 53451 | Haour Taala | Baalbek | Bekaa | 198 | 3,478 | 1 | 0.06 | 1 | 0.03642 | 1 |
| 27 | 61119 | Saida Ed-Dekermane | Saida | South | 3 | 60,366 | 1 | 0.00 | 1 | 0.63213 | 1 |
| 28 | 61183 | Miyé ou Miyé | Saida | South | 2,453 | 25,610 | 1 | 0.10 | 1 | 0.26818 | 1 |
| 29 | 61489 | Aanqoun | Saida | South | 645 | 5,386 | 1 | 0.12 | 1 | 0.05640 | 1 |
| 30 | 62211 | Jouaiya | Sour | South | 467 | 7,364 | 1 | 0.06 | 1 | 0.07711 | 1 |
| 31 | 62276 | Aabbassiyet Sour | Sour | South | 2,171 | 14,082 | 1 | 0.15 | 1 | 0.14746 | 1 |
| 32 | 71236 | Sarba En-Nabatieh | Nabatiye | Nabatiye | 68 | 799 | 1 | 0.09 | 1 | 0.00837 | 1 |
| 33 | 72143 | Aain Ibl | Bint Jubail | Nabatiye | 153 | 2,734 | 1 | 0.06 | 1 | 0.02863 | 1 |

| | | | | | | | | | | | |
|----|-------|-------------------------|---------------|---------------|--------|--------|---|------|---|---------|---|
| 34 | 74111 | Hasbaiya | Hasbaiya | Nabatiye | 575 | 8,310 | 1 | 0.07 | 1 | 0.08702 | 1 |
| 35 | 22375 | Dbayé | El Metn | Mount Lebanon | 784 | 3,268 | 1 | 0.24 | 2 | 0.05969 | 1 |
| 36 | 23211 | Chhim | Chouf | Mount Lebanon | 6,067 | 19,616 | 1 | 0.31 | 2 | 0.35826 | 1 |
| 37 | 23321 | Rmeilet Ech-Chouf | Chouf | Mount Lebanon | 2,351 | 4,734 | 1 | 0.50 | 2 | 0.08646 | 1 |
| 38 | 24111 | Choueifat El-Aamrousiyé | Aley | Mount Lebanon | 19,572 | 73,031 | 1 | 0.27 | 2 | 1.33381 | 1 |
| 39 | 24133 | Choueifat El-Quoubbé | Aley | Mount Lebanon | 5,843 | 26,791 | 1 | 0.22 | 2 | 0.48930 | 1 |
| 40 | 24343 | Bayssour Aaley | Aley | Mount Lebanon | 1,706 | 8,019 | 1 | 0.21 | 2 | 0.14646 | 1 |
| 41 | 31161 | Trablous et Tabbaneh | Tripoli | North | 6,404 | 26,311 | 1 | 0.24 | 2 | 0.48053 | 1 |
| 42 | 32113 | Kfar Aaqqa | Koura | North | 923 | 3,778 | 1 | 0.24 | 2 | 0.06900 | 1 |
| 43 | 33111 | Zgharta | Zgharta | North | 3,218 | 15,813 | 1 | 0.20 | 2 | 0.28880 | 1 |
| 44 | 34269 | Aabrine | Batroun | North | 447 | 1,753 | 1 | 0.25 | 2 | 0.03202 | 1 |
| 45 | 35275 | Bebnine | Akkar | North | 5,301 | 18,073 | 1 | 0.29 | 2 | 0.33008 | 1 |
| 46 | 35364 | Ouadi El-Jamous | Akkar | North | 1,619 | 5,924 | 1 | 0.27 | 2 | 0.10819 | 1 |
| 47 | 37231 | Beddaoui | Minieh-Danieh | North | 16,976 | 44,404 | 1 | 0.38 | 2 | 0.81098 | 1 |
| 48 | 37271 | Minie | Minieh-Danieh | North | 17,610 | 38,905 | 1 | 0.45 | 2 | 0.71054 | 1 |
| 49 | 51133 | Zahlé Aradi | Zahle | Bekaa | 1,232 | 6,151 | 1 | 0.20 | 2 | 0.11234 | 1 |
| 50 | 51224 | Jdita | Zahle | Bekaa | 2,990 | 9,242 | 1 | 0.32 | 2 | 0.16879 | 1 |
| 51 | 52224 | Baaloul BG | West Bekaa | Bekaa | 871 | 2,089 | 1 | 0.42 | 2 | 0.03815 | 1 |
| 52 | 53111 | Baalbek | Baalbek | Bekaa | 22,898 | 71,504 | 1 | 0.32 | 2 | 1.30592 | 1 |
| 53 | 53167 | Saaidé | Baalbek | Bekaa | 761 | 1,647 | 1 | 0.46 | 2 | 0.03008 | 1 |
| 54 | 53311 | Deir El-Ahmar | Baalbek | Bekaa | 2,924 | 7,442 | 1 | 0.39 | 2 | 0.13592 | 1 |
| 55 | 53445 | Nabi Chit | Baalbek | Bekaa | 3,094 | 9,603 | 1 | 0.32 | 2 | 0.17539 | 1 |
| 56 | 61311 | Ghaziyé | Saida | South | 5,163 | 18,290 | 1 | 0.28 | 2 | 0.33404 | 1 |
| 57 | 71113 | Nabatiyeh El-Faouka | Nabatiye | Nabatiye | 2,568 | 6,905 | 1 | 0.37 | 2 | 0.12611 | 1 |
| 58 | 74122 | Hebbariyé | Hasbaiya | Nabatiye | 780 | 2,484 | 1 | 0.31 | 2 | 0.04537 | 1 |
| 59 | 24211 | Aaramoun Aaley | Aley | Mount Lebanon | 9,827 | 15,666 | 1 | 0.63 | 3 | 0.50870 | 1 |
| 60 | 31111 | Trablous Ez-Zeitoun | Tripoli | North | 18,633 | 23,529 | 1 | 0.79 | 3 | 0.76402 | 1 |
| 61 | 35111 | Halba | Akkar | North | 10,842 | 16,668 | 1 | 0.65 | 3 | 0.54123 | 1 |
| 62 | 35429 | Kouachra | Akkar | North | 1,958 | 3,177 | 1 | 0.62 | 3 | 0.10316 | 1 |
| 63 | 35516 | Mazareaa Jabal Akroum | Akkar | North | 5,965 | 11,487 | 1 | 0.52 | 3 | 0.37300 | 1 |
| 64 | 37317 | Bqaa Sefrine | Minieh-Danieh | North | 2,224 | 4,271 | 1 | 0.52 | 3 | 0.13869 | 1 |
| 65 | 51125 | Zahlé Maallaqa Aradi | Zahle | Bekaa | 6,171 | 10,097 | 1 | 0.61 | 3 | 0.32786 | 1 |
| 66 | 51231 | Saadnayel | Zahle | Bekaa | 16,293 | 23,393 | 1 | 0.70 | 3 | 0.75961 | 1 |
| 67 | 51234 | Qabb Elias | Zahle | Bekaa | 27,951 | 39,206 | 1 | 0.71 | 3 | 1.27308 | 1 |
| 68 | 51267 | Barr Elias | Zahle | Bekaa | 34,688 | 45,306 | 1 | 0.77 | 3 | 1.47115 | 1 |
| 69 | 51284 | Majdel Aanjar | Zahle | Bekaa | 16,722 | 24,653 | 1 | 0.68 | 3 | 0.80052 | 1 |
| 70 | 51311 | Riyaq | Zahle | Bekaa | 6,921 | 10,808 | 1 | 0.64 | 3 | 0.35095 | 1 |
| 71 | 52211 | Joubb Jannine | West Bekaa | Bekaa | 7,833 | 13,478 | 1 | 0.58 | 3 | 0.43765 | 1 |
| 72 | 52234 | Khiara | West Bekaa | Bekaa | 1,577 | 2,004 | 1 | 0.79 | 3 | 0.06507 | 1 |
| 73 | 52277 | Marj BG | West Bekaa | Bekaa | 15,071 | 18,366 | 1 | 0.82 | 3 | 0.59637 | 1 |
| 74 | 61115 | Saida El-Qadimeh | Saida | South | 14,641 | 23,658 | 1 | 0.62 | 3 | 0.76821 | 1 |
| 75 | 61453 | Bissariye | Saida | South | 4,931 | 8,661 | 1 | 0.57 | 3 | 0.28124 | 1 |

Annex Figure 1. Geographical Distribution of Selected Sample CFs



Annex Figure 2. Example of Segmentation and ‘Super Segmentation’ of CFs



Annex Table 2. List of Sample Super Segments (for CFs divided into super-segments or secondary sampling units)¹⁴

| SN | CAS_code | CF_name | Qadha_name | Mohafza_Na | Total_popu | New-seg-ID | Times selected | No. super segments selected | No. of super segments | Prob 2 | Rand |
|----|----------|------------------|------------|---------------|------------|------------|----------------|-----------------------------|-----------------------|---------|---------|
| 1 | 10210 | Msaïtb foncière | Beirut | Beirut | 93838 | 10210-7 | 1 | 1 | 12 | 0.08333 | 0.02948 |
| 2 | 10310 | Mazraa foncière | Beirut | Beirut | 125792 | 10310-1 | 1 | 2 | 9 | 0.22222 | 0.12337 |
| 2 | 10310 | Mazraa foncière | Beirut | Beirut | 125792 | 10310-7 | 1 | 2 | 2 | 0.22222 | 0.15268 |
| 5 | 21111 | Chiyah | Baabda | Mount Lebanon | 251061 | 21111-10 | 1 | 3 | 13 | 0.23077 | 0.02589 |
| 5 | 21111 | Chiyah | Baabda | Mount Lebanon | 251061 | 21111-7 | 1 | 3 | 3 | 0.23077 | 0.06889 |
| 5 | 21111 | Chiyah | Baabda | Mount Lebanon | 251061 | 21111-5 | 1 | 3 | 3 | 0.23077 | 0.23505 |
| 8 | 21177 | Bourj El-Brajneh | Baabda | Mount Lebanon | 139404 | 21177-2 | 1 | 2 | 12 | 0.16667 | 0.03625 |
| 8 | 21177 | Bourj El-Brajneh | Baabda | Mount Lebanon | 139404 | 21177-11 | 1 | 2 | 2 | 0.16667 | 0.07765 |
| 11 | 22111 | Bourj Hammoud | El Metn | Mount Lebanon | 94232 | 22111-6 | 1 | 1 | 10 | 0.10000 | 0.01439 |

Annex Table 3. List of Sample Segments (Tertiary Sampling Units)

| SN | CAS_code | CF_name | Qadha_name | Mohafza_Na | Total_popu | Super segment ID | Segment ID | n_segments per SSU | n_segments to draw | Rand (TSU) | Prob 3 |
|----|----------|--------------------|------------|---------------|------------|------------------|-------------|--------------------|--------------------|------------|---------|
| 1 | 10210 | Msaïtb foncière | Beirut | Beirut | 93838 | 10210-7 | 10210-7-13 | 18 | 1 | 0.02851 | 0.05556 |
| 2 | 10310 | Mazraa foncière | Beirut | Beirut | 125792 | 10310-1 | 10310-1-18 | 26 | 1 | 0.01869 | 0.03846 |
| 2 | 10310 | Mazraa foncière | Beirut | Beirut | 125792 | 10310-7 | 10310-7-6 | 17 | 1 | 0.08653 | 0.05882 |
| 4 | 10650 | Achrafieh foncière | Beirut | Beirut | 71541 | 10650-0 | 10650-0-66 | 93 | 1 | 0.00334 | 0.01075 |
| 5 | 21111 | Chiyah | Baabda | Mount Lebanon | 251061 | 21111-10 | 21111-10-34 | 41 | 1 | 0.02708 | 0.02439 |
| 5 | 21111 | Chiyah | Baabda | Mount Lebanon | 251061 | 21111-5 | 21111-5-9 | 23 | 1 | 0.04097 | 0.04348 |
| 5 | 21111 | Chiyah | Baabda | Mount Lebanon | 251061 | 21111-7 | 21111-7-19 | 22 | 1 | 0.08325 | 0.04545 |
| 8 | 21177 | Bourj El-Brajneh | Baabda | Mount Lebanon | 139404 | 21177-11 | 21177-11-1 | 14 | 1 | 0.03035 | 0.07143 |
| 8 | 21177 | Bourj El-Brajneh | Baabda | Mount Lebanon | 139404 | 21177-2 | 21177-2-9 | 23 | 1 | 0.00106 | 0.04348 |
| 10 | 21219 | Hadath Beyrouth | Baabda | Mount Lebanon | 26829 | 21219-0 | 21219-0-6 | 28 | 1 | 0.10421 | 0.03571 |
| 11 | 22111 | Bourj Hammoud | El Metn | Mount Lebanon | 94232 | 22111-6 | 22111-6-3 | 21 | 1 | 0.00019 | 0.04762 |
| 12 | 22155 | Sinn El-Fil | El Metn | Mount Lebanon | 38208 | 22155-0 | 22155-0-66 | 68 | 1 | 0.00901 | 0.01471 |
| 13 | 22228 | Baouchriyé | El Metn | Mount Lebanon | 72611 | 22228-0 | 22228-0-49 | 83 | 1 | 0.02951 | 0.01205 |
| 14 | 22359 | Byaqout | El Metn | Mount Lebanon | 3753 | 22359-0 | 22359-0-2 | 6 | 1 | 0.07392 | 0.16667 |
| 35 | 22375 | Dbayé | El Metn | Mount Lebanon | 3268 | 22375-0 | 22375-0-4 | 4 | 1 | 0.21483 | 0.25000 |
| 15 | 22611 | Broummana El-Matn | El Metn | Mount Lebanon | 8844 | 22611-0 | 22611-0-2 | 10 | 1 | 0.22362 | 0.10000 |
| 36 | 23211 | Chhim | Chouf | Mount Lebanon | 19616 | 23211-0 | 23211-0-5 | 21 | 1 | 0.09593 | 0.04762 |
| 37 | 23321 | Rmeilet Ech-Chouf | Chouf | Mount Lebanon | 4734 | 23321-0 | 23321-0-2 | 5 | 1 | 0.67365 | 0.20000 |
| 16 | 23469 | Aain Zhalta | Chouf | Mount Lebanon | 1910 | 23469-0 | 23469-0-1 | 2 | 1 | 0.47936 | 0.50000 |

¹⁴ In all other CFs, the CF was the super-segment

| | | | | | | | | | | | |
|----|-------|-------------------------|---------------|---------------|-------|---------|-------------|-----|---|---------|---------|
| 38 | 24111 | Choueifat El-Aamrousiyé | Aley | Mount Lebanon | 73031 | 24111-0 | 24111-0-101 | 102 | 1 | 0.00238 | 0.00980 |
| 39 | 24133 | Choueifat El-Quoubbé | Aley | Mount Lebanon | 26791 | 24133-0 | 24133-0-11 | 29 | 1 | 0.09931 | 0.03448 |
| 59 | 24211 | Aaramoun Aaley | Aley | Mount Lebanon | 15666 | 24211-0 | 24211-0-11 | 18 | 1 | 0.06641 | 0.05556 |
| 40 | 24343 | Baysour Aaley | Aley | Mount Lebanon | 8019 | 24343-0 | 24343-0-7 | 10 | 1 | 0.02895 | 0.10000 |
| 17 | 25111 | Jounié Sarba | Kasrouane | Mount Lebanon | 15489 | 25111-0 | 25111-0-20 | 22 | 1 | 0.05377 | 0.04545 |
| 18 | 25211 | Ajaltoun | Kasrouane | Mount Lebanon | 4554 | 25211-0 | 25211-0-1 | 5 | 1 | 0.09509 | 0.20000 |
| 19 | 26141 | Aamchit | Jubail | Mount Lebanon | 14288 | 26141-0 | 26141-0-9 | 14 | 1 | 0.10108 | 0.07143 |
| 60 | 31111 | Trablous Ez-Zeitoun | Tripoli | North | 23529 | 31111-0 | 31111-0-13 | 48 | 1 | 0.01400 | 0.02083 |
| 20 | 31116 | Trablous El-Haddadine | Tripoli | North | 53893 | 31116-0 | 31116-0-11 | 54 | 1 | 0.01494 | 0.01852 |
| 21 | 31151 | Trablous El-Qobbe | Tripoli | North | 65830 | 31151-0 | 31151-0-42 | 44 | 1 | 0.00794 | 0.02273 |
| 41 | 31161 | Trablous et Tabbaneh | Tripoli | North | 26311 | 31161-0 | 31161-0-16 | 27 | 1 | 0.08705 | 0.03704 |
| 42 | 32113 | Kfar Aaqqa | Koura | North | 3778 | 32113-0 | 32113-0-1 | 4 | 1 | 0.10281 | 0.25000 |
| 22 | 32189 | Bkefine | Koura | North | 881 | 32189-0 | 32189-0-1 | 1 | 1 | 0.45403 | 1.00000 |
| 43 | 33111 | Zgharta | Zgharta | North | 15813 | 33111-0 | 33111-0-9 | 18 | 1 | 0.06386 | 0.05556 |
| 44 | 34269 | Aabrine | Batroun | North | 1753 | 34269-0 | 34269-0-1 | 3 | 1 | 0.08812 | 0.33333 |
| 61 | 35111 | Halba | Akkar | North | 16668 | 35111-0 | 35111-0-15 | 19 | 1 | 0.02170 | 0.05263 |
| 23 | 35179 | Qboula | Akkar | North | 616 | 35179-0 | 35179-0-1 | 1 | 1 | 0.81850 | 1.00000 |
| 45 | 35275 | Bebnine | Akkar | North | 18073 | 35275-0 | 35275-0-3 | 21 | 1 | 0.04383 | 0.04762 |
| 46 | 35364 | Ouadi El-Jamous | Akkar | North | 5924 | 35364-0 | 35364-0-9 | 9 | 1 | 0.35237 | 0.11111 |
| 62 | 35429 | Kouachra | Akkar | North | 3177 | 35429-0 | 35429-0-3 | 3 | 1 | 0.22822 | 0.33333 |
| 24 | 35487 | Qbaiyat Akkar | Akkar | North | 6973 | 35487-0 | 35487-0-4 | 7 | 1 | 0.01762 | 0.14286 |
| 63 | 35516 | Mazareaa Jabal Akroum | Akkar | North | 11487 | 35516-0 | 35516-0-5 | 11 | 1 | 0.18676 | 0.09091 |
| 47 | 37231 | Beddaoui | Minieh-Danieh | North | 44404 | 37231-0 | 37231-0-50 | 57 | 1 | 0.02521 | 0.01754 |
| 48 | 37271 | Minie | Minieh-Danieh | North | 38905 | 37271-0 | 37271-0-20 | 40 | 1 | 0.01934 | 0.02500 |
| 64 | 37317 | Bqaa Sefrine | Minieh-Danieh | North | 4271 | 37317-0 | 37317-0-4 | 4 | 1 | 0.44794 | 0.25000 |
| 65 | 51125 | Zahlé Maallaqa Aradi | Zahle | Bekaa | 10097 | 51125-0 | 51125-0-4 | 15 | 1 | 0.19174 | 0.06667 |
| 25 | 51131 | Zahlé Haouch El-Oumara | Zahle | Bekaa | 5757 | 51131-0 | 51131-0-4 | 6 | 1 | 0.12081 | 0.16667 |
| 49 | 51133 | Zahlé Aradi | Zahle | Bekaa | 6151 | 51133-0 | 51133-0-5 | 7 | 1 | 0.01805 | 0.14286 |
| 50 | 51224 | Jdita | Zahle | Bekaa | 9242 | 51224-0 | 51224-0-3 | 11 | 1 | 0.01322 | 0.09091 |
| 66 | 51231 | Saadnayel | Zahle | Bekaa | 23393 | 51231-0 | 51231-0-16 | 26 | 1 | 0.10708 | 0.03846 |
| 67 | 51234 | Qabb Elias | Zahle | Bekaa | 39206 | 51234-0 | 51234-0-26 | 35 | 1 | 0.00073 | 0.02857 |
| 68 | 51267 | Barr Elias | Zahle | Bekaa | 45306 | 51267-0 | 51267-0-14 | 48 | 1 | 0.01760 | 0.02083 |
| 69 | 51284 | Majdel Aanjar | Zahle | Bekaa | 24653 | 51284-0 | 51284-0-13 | 25 | 1 | 0.01400 | 0.04000 |
| 70 | 51311 | Riyaaq | Zahle | Bekaa | 10808 | 51311-0 | 51311-0-2 | 11 | 1 | 0.07445 | 0.09091 |
| 71 | 52211 | Joubb Jannine | West Bekaa | Bekaa | 13478 | 52211-0 | 52211-0-1 | 14 | 1 | 0.01374 | 0.07143 |
| 51 | 52224 | Baaloui BG | West Bekaa | Bekaa | 2089 | 52224-0 | 52224-0-1 | 2 | 1 | 0.19555 | 0.50000 |
| 72 | 52234 | Khiara | West Bekaa | Bekaa | 2004 | 52234-0 | 52234-0-2 | 2 | 1 | 0.61762 | 0.50000 |
| 73 | 52277 | Marj BG | West Bekaa | Bekaa | 18366 | 52277-0 | 52277-0-8 | 20 | 1 | 0.13774 | 0.05000 |
| 52 | 53111 | Baalbek | Baalbek | Bekaa | 71504 | 53111-0 | 53111-0-70 | 80 | 1 | 0.01073 | 0.01250 |
| 53 | 53167 | Saaidé | Baalbek | Bekaa | 1647 | 53167-0 | 53167-0-1 | 2 | 1 | 0.57735 | 0.50000 |
| 54 | 53311 | Deir El-Ahmar | Baalbek | Bekaa | 7442 | 53311-0 | 53311-0-5 | 9 | 1 | 0.16490 | 0.11111 |
| 55 | 53445 | Nabi Chit | Baalbek | Bekaa | 9603 | 53445-0 | 53445-0-10 | 10 | 1 | 0.24514 | 0.10000 |
| 26 | 53451 | Haour Taala | Baalbek | Bekaa | 3478 | 53451-0 | 53451-0-2 | 3 | 1 | 0.23547 | 0.33333 |
| 74 | 61115 | Saida El-Qadimeh | Saida | South | 23658 | 61115-0 | 61115-0-16 | 25 | 1 | 0.08783 | 0.04000 |
| 27 | 61119 | Saida Ed-Dekermane | Saida | South | 60366 | 61119-0 | 61119-0-26 | 69 | 1 | 0.01328 | 0.01449 |
| 28 | 61183 | Miyé ou Miyé | Saida | South | 25610 | 61183-0 | 61183-0-1 | 29 | 1 | 0.10490 | 0.03448 |
| 56 | 61311 | Ghaziyé | Saida | South | 18290 | 61311-0 | 61311-0-5 | 19 | 1 | 0.00795 | 0.05263 |
| 75 | 61453 | Bissariye | Saida | South | 8661 | 61453-0 | 61453-0-6 | 9 | 1 | 0.10027 | 0.11111 |
| 29 | 61489 | Aanqoun | Saida | South | 5386 | 61489-0 | 61489-0-3 | 5 | 1 | 0.19827 | 0.20000 |
| 30 | 62211 | Jouaiya | Sour | South | 7364 | 62211-0 | 62211-0-4 | 9 | 1 | 0.20830 | 0.11111 |
| 31 | 62276 | Aabbassiyet Sour | Sour | South | 14082 | 62276-0 | 62276-0-1 | 18 | 1 | 0.00890 | 0.05556 |
| 57 | 71113 | Nabatiyeh El-Faouka | Nabatiye | Nabatiye | 6905 | 71113-0 | 71113-0-2 | 9 | 1 | 0.18614 | 0.11111 |

| | | | | | | | | | | | |
|----|-------|-------------------|-------------|----------|------|---------|-----------|---|---|---------|---------|
| 32 | 71236 | Sarba En-Nabatieh | Nabatiye | Nabatiye | 799 | 71236-0 | 71236-0-1 | 1 | 1 | 0.59953 | 1.00000 |
| 33 | 72143 | Aain Ibl | Bint Jubail | Nabatiye | 2734 | 72143-0 | 72143-0-1 | 3 | 1 | 0.32534 | 0.33333 |
| 34 | 74111 | Hasbaiya | Hasbaiya | Nabatiye | 8310 | 74111-0 | 74111-0-2 | 8 | 1 | 0.04804 | 0.12500 |
| 58 | 74122 | Hebbariyé | Hasbaiya | Nabatiye | 2484 | 74122-0 | 74122-0-1 | 3 | 1 | 0.06554 | 0.33333 |