# The MENA Enterprise Surveys (MENA ES) 

A Report on methodology and observations
September 2015

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## 1 Background

The Middle East and North Africa Enterprise Surveys (MENA ES) are a joint initiative of the European Bank for Reconstruction and Development (EBRD), the World Bank Group (the World Bank) and the European Investment Bank (EIB). The survey was undertaken on behalf of the EBRD, World Bank and EIB for the first time in 2012-2014, when it was administered to approximately XX enterprises in 9 countries in the MENA region to assess the environment for private enterprise and business development. It included an Innovation Module, covering product, process, organisational and marketing innovation, as well as management practices in manufacturing enterprises with at least 20 employees.

The objective of the survey is to obtain feedback from enterprises in the MENA region, including SEMED on their perception of the environment in which they operate as well as to help in building a panel of enterprise data that will make it possible to track changes in the business environment over time.

Through interviews with firms in the manufacturing and services sectors, MENA ES captures business perceptions of the biggest obstacles to enterprise growth, the relative importance of various constraints to increasing employment and productivity, and the effects of a country's business environment on its international competitiveness. MENA ES is used to create statistically significant business environment indicators that are comparable across countries.

The report outlines and describes the sampling design of the data, the data set structure as well as additional information that may be useful when using the data, such as information on non-response cases and the appropriate use of weights.

MENA ES was implemented by Gallup in cooperation with local partners. For details, refer to Annex A.
MENA ES has been supported by the SEMED cooperation funds account.

## 2 MENA ES Methodology

### 2.1 Survey universe, sample population and sampling frames

The whole population, or universe of the study, are commercial, service or industrial business establishments with at least 5 full-time employees in the non-agricultural economy. It comprises: all manufacturing sectors according to the group classification of ISIC Revision 3.1: (group D), construction sector (group F), services sector (groups G and H), and transport, storage, and communications sector (group I). Note that this definition excludes the following sectors: financial intermediation (group J), real estate and renting activities (group K, except sub-sector 72, IT, which was added to the population under study), and all public or utilities-sectors. Government departments including military, police, education, health and similar activities were excluded, as were those in primary industries including agriculture, mining, etc. There are no up to date and reliable statistics relating to this universe in the countries being surveyed in MENA ES. Consequently the universe size and characteristics have to be directly estimated from the survey results themselves. This requirement increases the emphasis that has to be placed on the quality of the sample frame, because the validity of the results is predominantly a function of coverage and age of the sampling frame.

The criteria used to evaluate the available sampling frame in descending priority were those of:

- Coverage
- Up to datedness
- Availability of detailed stratification variables
- Location identifiers- address, phone number, email
- Electronic format availability
- Contact name(s)

The sampling frames used for the surveys must consist of the lists of enterprises in each country that most optimally meet these requirements. The final selection was made by Gallup and in the case of Egypt, additionally AUC, in collaboration with the World Bank. For Egypt, Jordan, West Bank and Gaza and Yemen, two sampling frames were used. The first sampling frame was often an official frame of establishments supplied by the national statistical office of the country and the second sampling frame consisted of establishments that participated in enterprise surveys conducted in the past by local World Bank offices.

### 2.2 Specifications of the survey

### 2.2.1 Coverage of countries:

MENA ES was implemented in 9 territories (Djibouti, Egypt, Israel, Jordan, Lebanon, Morocco, Tunisia, West Bank and Gaza, and Yemen). It was not possible to implement MENA ES in Algeria, Libya and Syria.

### 2.2.2 Sampling structure

In all countries where a reliable sampling frame was available, the sample was selected using stratified random sampling, following the methodology explained in the Sampling Manual. Stratified random sampling was preferred over simple random sampling for several reasons:

- To obtain unbiased estimates for different subdivisions of the population with some known level of precision.
- To obtain unbiased estimates for the whole population. The whole population, or the universe of the study, is the non-agricultural economy. It comprises all manufacturing sectors according to the group classification of ISIC Revision 3.1 (group D), construction sector (group F), services sector (groups G and H ), and transport, storage and communications sector (group I). Note that this definition excludes the following sectors: financial intermediation (group J), real estate and renting activities (group K, except sub sector 72, IT, which was added to the population under study), and all public or utilities sectors.
- To make sure that the final total sample includes establishments from all different sectors and that it is not concentrated in one or two of industries/sizes/regions.
- To exploit the benefits of stratified sampling where population estimates, in most cases, will be more precise than using a simple random sampling method (i.e., lower standard errors, other things being equal).
- Stratification may produce a smaller bound on the error of estimation than would be produced by a simple random sample of the same size. This result is particularly true if measurements within strata are homogeneous.
- The cost per observation in the survey may be reduced by stratification of the population elements into convenient groupings.

Three levels of stratification were used in all countries: industry, establishment size and region. The original sample designs with specific information of the industries and regions chosen are described in country-specific pages in Annex A.

In all countries, the sample was stratified along Manufacturing, Retail trade (sector 52) and Other services. In some of the countries, there were specific target numbers of interviews for more detailed sectors within these three groups. These countries include Egypt, Israel, Jordan, Lebanon, Morocco and Tunisia.

Size stratification was defined following the standardized definition for the rollout: small (5-19 employees), medium (20-99 employees), and large (more than 99 employees). ${ }^{1}$ For stratification

[^0]purposes, the number of employees was defined on the basis of reported permanent full-time workers. This seems to be an appropriate definition of the labour force, since seasonal/casual/part-time employment is not a common practice, except in the sectors of construction and agriculture.

Details on the regional stratification can be found in country-specific information in Annex A.
Along the defined stratification guidelines, priority was given to completing interviews with establishments who participated in previous enterprise surveys where available.

### 2.3 Sampling implementation

Given the stratified design, sampling frames containing a complete and updated list of establishments as well as information on all stratification variables (number of employees, industry, and region) are required to draw the sample. Great efforts were made to obtain the best source for these listings. However, the quality of sampling frames was not optimal and, therefore, some adjustments were needed to correct for the presence of ineligible units. These adjustments are reflected in the weights computation (see section 5.2).

For a subset of countries covered in MENA ES two sampling frames were used. The first sampling frame was obtained from the official sources in the countries (details for each country can be found in countryspecific information). The second sampling frame, supplied by the World Bank, consisted of enterprises interviewed in previous enterprise surveys conducted by local World Bank offices. Gallup was required to attempt to re-interview establishments responding to the previous enterprise surveys where they were within the selected geographical region and met eligibility criteria. That sample is referred to as the Panel.

The quality of the sampling frames was assessed at the onset of the project through a combination of calls, visits to a random subset of firms, and local contractor knowledge. The sampling frames proved to be useful, though they all showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations.

Table 1 depicts the targeted number of completed interviews for MENA ES, along with achieved total number of completed interviews and number of completed interviews with panel establishments.

Table 1: Targeted and achieved number of completed interviews

| Country/territory | Number of completed interviews |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | Target | Completed | Panel | Manufacturing | Retail | Core | Innovation |  |
| Djibouti | 270 | 266 | 0 | 64 | 71 | 131 | 143 |  |
| Egypt | 3000 | 2897 | 641 | 2055 | 142 | 700 | 1709 |  |
| Israel | 480 | 483 | 0 | 222 | 123 | 138 | 228 |  |
| Jordan | 600 | 573 | 0 | 380 | 77 | 116 | 328 |  |
| Lebanon | 570 | 561 | 0 | 243 | 123 | 195 | 358 |  |
| Morocco | 600 | 407 | 0 | 209 | 81 | 117 | 242 |  |
| Tunisia | 600 | 592 | 0 | 331 | 63 | 198 | 430 |  |
| West Bank \& Gaza | 360 | 434 | 0 | 163 | 112 | 159 | 177 |  |
| Yemen | 360 | 353 | 139 | 128 | 107 | 118 | 198 |  |
| TOTAL | $\mathbf{6 8 4 0}$ | $\mathbf{6 5 6 6}$ | $\mathbf{7 8 0}$ | $\mathbf{3 7 9 5}$ | $\mathbf{8 9 9}$ | $\mathbf{1 8 7 2}$ | $\mathbf{3 8 1 3}$ |  |

## 3 Fieldwork

### 3.1 Questionnaires and translation

Three main questionnaires were used for the survey - core, services and manufacturing - depending on the respondent's industry. In addition, two innovation modules were used - core/retail and manufacturing. A screener questionnaire was also used during the recruitment phase.

The questionnaires were translated into local languages (Table 2).

Table 2: Questionnaire languages used in each country

| Country | Languages |
| :--- | :--- |
| Djibouti | French |
| Egypt | Arabic |
| Israel | Hebrew |
| Jordan | Arabic |
| Lebanon | Arabic |
| Morocco | Arabic, French |
| Tunisia | Arabic, French |
| West Bank \& Gaza | Arabic |
| Yemen | Arabic |

The translation process progressed as follows:

1. When the questionnaire and showcards were finalised, they were sent to the national agencies for translation.
2. The questionnaire was translated by a suitably qualified and experienced executive within each local agency into the national offical languages.
3. The questionnaire was back translated into English by independent linguists.
4. The back translations were compared to the master English questionnaire by the Gallup team and a list of differences was sent to the local agency.
5. The local agencies amended the questionnaires.
6. The Gallup team checked the changes had been made.
7. After the pilot, further changes were made to the questionnaire by the local agencies
8. The national agencies sent the final national questionnaires and showcards to GallupMORI, and they were proof read by Language Connect.
9. Final national questionnaires were sent to the EBRD and WB for their records.

In addition, Country Profiles were also translated by the local agencies and proof-read by the translation agency. The Country Profiles were used during or after fieldwork, as an incentive for the interviewees.

### 3.2 CAPI scripting and testing

Once the translations had been approved, the countries using a CAPI script worked on setting up the script and then the script was thoroughly tested by each country manager. To test the script, the country manager checked the question wording and the routing was correct and made sure that logic checks had been built into the script where appropriate.

The Gallup team also checked the final scripts, providing this was possible due to differences in software. If it was not possible to check the script, Gallup requested a dummy topline, which means it is possible to check the routing is working and that single and multicode questions are set up correctly.

### 3.3 Mode of completion

The survey was carried out face to face in home. Questionnaires were administered either using Computer Assisted Personal Interviewing (CAPI) or Pen and Paper Interviewing (PAPI), depending on local practice in each country (see Table 3).

Table 3: Survey administration in each country

| Country | Survey administration |
| :--- | :---: |
| Djibouti | CAPI |
| Egypt | CAPI/PAPI |
| Israel | CAPI |
| Jordan | CAPI |
| Lebanon | CAPI |
| Morocco | CAPI/PAPI |
| Tunisia | CAPI |
| West Bank \& Gaza | CAPI/PAPI |
| Yemen | CAPI |

### 3.4 Training

Training briefings were organised with the country managers of all the local agencies.

Each country manager was required to attend a 3 day 'train the trainers' briefing to ensure that they were suitably well informed to train their agency field force and to manage the project. Each training session lasted three days, and was delivered by representatives from the EBRD and WB teams and Gallup. The training covered:

- MENA ES management team introduction;
- Introduction of the MENA ES by the World Bank/EBRD representative, on behalf of the World Bank, EBRD and EIB;
- Universe and sample for MENA ES
- Sampling frames and selected samples:
- Listings and quality control
- Sample management and fieldwork progress report
- Response rate: Follow up - methods to ensure a good response rate
- The questionnaires implementation:
- Key concepts
- Questionnaire manual
- Mock interviewing with the manufacturing questionnaire
- Innovation module and eligibility
- Multiple choice test
- Questionnaire proofreading
- Supervisors and interviewer training
- MENA ES pilot survey
- Data entry and quality control
- An open question and answer session.

The briefings took place in the following locations in the periods indicated in Table 4.

Table 4: Location and dates of the briefings

| Location | Countries | Language of the briefing | Dates |
| :--- | :--- | :--- | ---: |
| Casablanca | Morocco | English, with translation to French | $6-8$ November 2012 |
| Amman | Jordan, Lebanon, Yemen | English, with translation to Arabic | 14-17 January 2013 |
| Tel Aviv | Israel | English | 20-21 January 2013 |
| Tunis | Tunisia, Algeria | English, with translation to French | $6-8$ March 2013 |
| Cairo | Egypt (PARC), Djibouti | English, with translation to Arabic | 10-12 March 2013 |
| Ramallah | West Bank and Gaza <br> (Gaza team attended <br> over Video-Conference) | English, with translation to Arabic | 26-30 May 2013 |
| Cairo | Egypt (AUC) | English, with translation to Arabic | $24-26$ March 2014 |

This training ensured that project managers were well-prepared to train their own field force. Importantly, it also ensured that the content of the training in each country was the same.

For the supervisors and interviewer training, Gallup provided the training materials to the survey and fieldwork managers, covering the different training components such as:

- Written training. Each supervisor and interviewer received a questionnaire manual that had to be read carefully before the training. In addition, supervisors and interviewers received detailed interviewer instructions, in order to fully understand the survey methodology and objectives.
- Theoretical training. Once the supervisors and interviewers had reviewed the questionnaire manual and interviewer instructions, the survey manager in each country thoroughly explained the study's metholodology and reviewed the whole instrument, question by question, to ensure its correct comprehension, explain key concepts, unification of criteria, and answer any questions.
- Comprehension test. After the training, supervisors and interviewers completed a multiple choice test to assess their understanding of the survey methodology and questionnaire.

Additional interviewer briefings -over the phone or in person - were also organised whenever needed and according to any particular requirements of the survey.

For further details on the training on a country by country basis, please refer to the appendices.

### 3.5 Piloting

Before the survey was launched, a pilot was conducted in Morocco, using both French and Arabic versions of the questionnaires. Interviews were conducted by local interviewers who provided feedback to their country managers. Table 5 shows the quotas achieved for the pilot interviews.

Table 5: Pilot fieldwork dates and interviews achieved

|  | Pilot fieldwork dates |  | Questionnaire type |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Language | Start | Finish |  | $\xrightarrow[\text { U }]{\substack{\text { ¢ }}}$ | - |
| French | 12 November | 20 November | 1 | 24 | 25 |
| Arabic | 2012 | 2012 | 4 | 7 | 11 |

The main purpose of the pilot was to check that the translation was correct, the routing was correct, and that the questions were appropriate for the local environment. Also, these interviews were timed to
ascertain the length of the questionnaire. All four questionnaires -manufacturing and services, and services and manufacturing innovation - were tested.

After the pilot was completed, a pilot report was sent to the World Bank outlining the key findings and recommended changes to the questionnaire.

Any modification to the questionnaire and instructions were approved by the World Bank task manager before the survey was implemented. Prior to the launch of the main survey, the World Bank task manager gave their explicit approval of the survey instrument.

## 4 Survey and item non-response

Survey non-response must be differentiated from item non-response. The former refers to refusals to participate in the survey altogether whereas the latter refers to the refusals to answer some specific questions. MENA ES suffers from both problems and different strategies were used to address these issues.

Item non-response was addressed by two strategies:

- For sensitive questions that may generate negative reactions from the respondent, such as corruption or tax evasion, enumerators were instructed to collect the refusal to respond as (-8) as a different option from don't know (-9).
- Establishments with incomplete information were re-contacted in order to complete this information, whenever necessary. However, there were clear cases of low response.

Survey non-response was addressed by maximising efforts to contact establishments that were initially selected for interviews. Attempts were made to contact an establishment for interview at different times/days of the week before a replacement establishment (with similar strata characteristics) was suggested for interview. Survey non-response did occur, but substitutions were made in order to potentially achieve strata-specific goals. Further research is needed on survey non-response in MENA ES regarding potential introduction of bias.

Details on rejection rates, eligibility rates, and item non-response are available at the strata level. This report summarized these numbers to alert researchers to these issues when using the data and when making inferences. Item non-response, selection bias and faulty sampling frames are not unique to MENA ES. All Enterprise Surveys suffer from these shortcomings, but in very few cases they have been made explicit.

## 5 MENA ES Database

### 5.1 Database structure

The structure of the database reflects the fact that three different versions of the questionnaire were used. The basic questionnaire, the Core Module, includes all common questions asked to all establishments from all sectors (manufacturing, services and IT). The second expanded variation, the Manufacturing Questionnaire, is built upon the Core Module and adds some specific questions relevant to the sector. The third expanded variation, the Retail Module, is also built upon the Core Module and adds to the core specific questions relevant to either retail or IT. Each variation of the questionnaire is identified by the index variable, $a 0$.

All variables are named using, first, the letter of each section and, second, the number of the variable within the section (i.e., a1 denotes section A, question 1 ). Variable names preceded by " $m n a$ " indicate questions specific to MENA ES, and therefore, they may not be found in the implementation of Enterprise Surveys in other parts of the world. Table 6 identifies these questions, and also notes which
variables were used for these questions in BEEPS (where applicable). All other suffixed variables are global and are present in all country surveys over the world. All variables are numeric, with the exception of the variables ending with " $x$ ". The suffix " $x$ " denotes that the variable is alpha-numeric.

Table 7 contains the variables that refer to the same question in MENA ES and BEEPS $V$, but use different variable names.

Table 6: Variable names preceeded by "mna" - MENA ES, and counterparts in BEEPS V (where applicable)

| Main questionnaire |  |  | Innovation Module |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MENA ES | BEEPS V | Comments | MENA ES | BEEPS V | Comments |
| mnab4a |  |  | mnao1a | ecaola | Questions have the same meaning but they are formulated in slightly different ways |
| mnaq5 | ecaq5 |  | mnao1bx | ecao1bx |  |
| mnaq5x | ecaq5x |  | mnao2a | ecao2a | Questions have the same meaning but they are formulated in different ways |
| mnab7b |  |  | mnao2b | ecao2b |  |
| mnac18a |  |  | mnao2c | ecao2c |  |
| mnac18b |  |  | mnao3a | ecao3a |  |
| mnac18c |  |  | mnao3i |  |  |
| mnac31a1 | ecac31a1 |  | mnao3b | ecao3b |  |
| mnac31a3 | ecac31a3 |  | mnao3c | ecao3c |  |
| mnad7x |  |  | mnao3d | ecao3d |  |
| mnad14b |  |  | mnao3h |  |  |
| mnad31b1 | ecad31b1 |  | mnao3e | ecao3e |  |
| mnad31b3 | ecad31b3 |  | mnao3g |  |  |
| mnae3a |  |  | mnao3f | ecao3f |  |
| mnae3b |  |  | mnao3fx | ecao3fx |  |
| mnae3c |  |  | mnao4 | ecao4 |  |
| mnae3d |  |  | mnao5 | ecao5 |  |
| mnaq53 | ecaq53 |  | mnao5x | ecao5x |  |
| mnae20 |  |  | mnahb13a |  |  |
| mnaf3 |  |  | mnahb13d |  |  |
| mnaf4 |  |  | mnahb13e |  |  |
| mnaf5a |  |  | mnahb13f |  |  |
| mnaf5b |  |  | mnahb13g |  |  |
| mnaf5c |  |  | mnahb13h |  |  |
| mnaf5d |  |  | mnahb13i |  |  |
| mnak4a | ecak4a |  | mnao6 | ecao6 |  |
| mnak8c |  |  | mnao7a | ecao7a |  |
| mnak8d |  |  | mnao7b | ecao7b |  |
| mnak9a | ecak9a |  | mnao7c | ecao7c |  |
| mnak9a_str | k9a_val |  | mnao8x | ecao8x |  |
| mnak9ax | ecak9ax |  | mnao9a | ecao9a | Questions have the same meaning but they are formulated in slightly different ways |
| mnaq46f | ecaq46f |  | mnao9b | ecao9b |  |


| mnaq46fx | ecaq46fx |  | mnao9c | ecao9c |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| mnaq46d | ecaq46d | The question for MENA has one more option for negative answer (-7) | mnao10a | ecao10a |  |
| mnaq46e | ecaq46e |  | mnao10b | ecao10b |  |
| mnak15a1 | ecak15a1 |  | mnao10c | ecao10c |  |
| mnak20b |  |  | mnao10d | ecao10d | Was not asked in Russia |
| mnak20c |  |  | mnahc8 |  |  |
| mnaq31e | ecaq31e |  | mnahc9a |  |  |
| mnaj1b | ecaj1b |  | mnahc9b |  |  |
| mnaj1c | ecaj1c |  | mnahc9c |  |  |
| mnaj1a |  |  | mnahc9d |  |  |
| mnaj1d |  |  | mnahc9g |  |  |
| mnaj31b1 | ecaj31b1 |  | mnahc9gx |  |  |
| mnaj31b3 | ecaj31b3 |  | mnao11 | ecao11 |  |
| mnaj31c1 | ecaj31c1 |  | mnao11x | ecao11x |  |
| mnaj31c3 | ecaj31c3 |  | mnahc16b |  |  |
| mnaj31f1 | ecaj31f1 |  | mnahc16c |  |  |
| mnaj31f3 | ecaj31f3 |  | mnahc16d |  |  |
| mnaj30g |  |  | mnahc16e |  |  |
| mnal3a |  |  | mnahc16f |  |  |
| mnal3b |  |  | mnahc16g |  |  |
| mnal4 |  |  | mnahc16h |  |  |
| mnal4a |  |  | mnahc16j |  |  |
| mnal4b |  |  | mnao12 | ecao12 |  |
| mnal4c |  |  | mnao13 | ecao13 |  |
| mnal4d |  |  | mnao14a | ecao14a |  |
| mnal4e |  |  | mnao14b | ecao14b |  |
| mnal4f |  |  | mnao14c | ecao14c |  |
| mnal4fx |  |  | mnao14d | ecao14d |  |
| mnal5c |  |  | mnao14e | ecao14e |  |
| mnal9a1 | ecaq69 | Questions have the same meaning but they are formulated in different ways | mnao14f | ecao14f |  |
| mnal9a2 |  |  | mnao15a | ecao15a |  |
| mnan8a |  |  | mnao15b | ecao15b |  |
| mnaa20 |  |  | mnao15c | ecao15c |  |
| mnaa15a4a | ecaa15a4a |  | mnao15d | ecao15d |  |
| mnaa15a4b | ecaa15a4b |  | mnao16 | ecao16 |  |
| mnaa15a4c | ecaa15a4c |  | mnao17 | ecao17 |  |
|  |  |  | mnao18 | ecao18 |  |
|  |  |  | mnao19 | ecao19 |  |
|  |  |  | mnao20 | ecao20 |  |
|  |  |  | mnao21 | ecao21 |  |
|  |  |  | mnao22a | ecao22a |  |
|  |  |  | mnao22b | ecao22b |  |
|  |  |  | mnao23a | ecao23a |  |


|  |  |  | mnao23b | ecao23b |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  | mnao23cx | ecao23cx |  |
|  |  |  | mnao23d | ecao23d |  |
|  |  |  | mnar1 | ecar1 |  |
|  |  |  | mnar2 | ecar2 |  |
|  |  |  | mnar6 | ecar6 |  |
|  |  |  | mnar7 | ecar7 |  |
|  |  |  | mnar8 | ecar8 |  |
|  |  |  | mnar11 | ecar11 |  |
|  |  |  | mnar13 | ecar13 |  |
|  |  |  | mnar15 | ecar15 |  |

Table 7: Different variable names for the same question in MENA ES and BEEPS V

| Main questionnaire |  |  |
| :--- | :--- | :--- |
| MENA ES | BEEPS V | Comments |
| a7a | a7 |  |
| a7c | a7a |  |
| h4a | ecah4 |  |
| h5 | h4 |  |
| h6 | h5 |  |
| h7 | h6 |  |
| h8 | ecah8 |  |
| l9a | l9a1 |  |

There are two establishment identifiers, idstd and id. The first is a global unique identifier. The second is a country unique identifier. The variables $a 2$ (sampling region), a6a (sampling establishment's size) and $a 4 a$ (sampling sector) contain the establishment's classification into the strata chosen for each country using information from the sampling frame. The strata were defined according to the guidelines described above and in country-specific information.

There are three levels of stratification: industry, size and region. Different combinations of these variables generate the strata cells for each industry/region/size combination. A distinction should be made between the variable $a 4 a$ (sampling sector) and $d 1 a 2$ (industry expressed as ISIC rev. 3.1 code). The former gives the establishment's classification into one of the chosen industry-strata, whereas the latter gives the actual establishment's industry classification (four digit code) in the sampling frame.

All of the following variables contain information from the sampling frame and were defined with the sampling design. They may not coincide with the reality of individual establishments as sampling frames may contain inaccurate information. The variables containing the sampling frame information are included in the data set for researchers who may want to further investigate statistical features of the survey and the effect of the survey design on their results:

- $a 2$ is the variable describing sampling regions
- a6a: coded using the same standard for small, medium, and large establishments as defined above. The code -9 was used to indicate units for which size was missing in the sampling frame
- a4a: coded using ISIC codes for the chosen industries for stratification. These codes include most manufacturing industries (15 to 37), retail (52) and other services ( $45,50,51,55,60-64,72$ )
- idstd2010 and idstd2008: contain the WB idstd firm ids of the panel firms from previous enterprise surveys in Yemen and Egypt, respectively

The surveys were implemented following a two-stage procedure. In the first stage, a screener questionnaire was typically applied over the phone to determine eligibility and to make appointments.

In the second stage, a face-to-face interview took place with the Manager/Owner/Director of each establishment. The variables $a 4 b$ and $a 6 b$ contain the industry and size of the establishment from the screener questionnaire. Variables $a 8$ to a11 contain additional information and were also collected in the screening phase.

There are additional variables for location ( $a 3 x$ ), industry ( $d 1 a 2$ ) and size ( 11,16 and 18 ) that reflect more accurately the reality of each establishment:

- Variable $a 3 x$ indicates the actual location of the establishment. There may be divergencies between the location in the sampling frame and the actual location, as the establishment may be listed in one place but the actual physical location is in another place.
- Variable d1a2 indicates the actual ISIC code of the main output of the establishment as answered by the respondent. This is probably the most accurate variable to classify establishments by activity.
- Variables I1, I6 and I8 were designed to obtain a more accurate measure of employment accounting for permanent and temporary employment. Special efforts were made to make sure that this information was not missing for most establishments.
- Variable $917 x$ gives interviewer comments, including problems that occurred during an interview and extraordinary circumstances which could influence results. Please note that sometimes this variable is removed due to privacy issues.

Note that certain variables (including $a 3 x$, actual location of the establishment) have been removed from the public version of the dataset for confidentiality reasons.

The "last complete fiscal year" refers to 2012, while "three fiscal years ago" refers to 2009.

### 5.2 Weights

Since the sampling design was stratified and employed differential sampling, individual observations should be properly weighted when making inferences about the population. Under stratified random sampling unweighted estimates are biased unless sample sizes are proportional to the size of each stratum. With stratification the probability of selection of each unit is, in general, not the same. Consequently, individual observations must be weighted by the inverse of their probability of selection (probability weights or pw in Stata). ${ }^{2}$

Special care was given to the correct computation of weights. Considering the varying quality of the sampling frames, it was imperative to accurately adjust the totals within each region/industry/size stratum to account for the presence of ineligible units (the firm discontinued business or was unattainable, education or government establishments, non-panel establishments with less than 5 employees, no reply after having called on different days of the week and at different business hours, out of order, no tone in the phone line, answering machine, fax line, wrong address or moved away and could not get the new reference). The information required for the adjustment was collected in the first stage of the implementation, during the screening process. Using this information, each stratum cell of the universe was scaled down by the observed proportion of ineligible units within the cell. Once an accurate estimate of the universe cell (projections) was available, weights were computed using the number of completed interviews. Note that panel firms with less than 5 employees were also included in the eligible sample and special code zero was used in $a 6 a$ and $a 6 b$ (sample and screener size) to reflect those cases.

For some establishments it was impossible to determine eligibility because the contact was not successfully completed during the screening process (because the firm has moved and it is not possible to locate the new location, for example). Consequently, different assumptions as to their eligibility result in different universe cells' adjustments and in different sampling weights. Three sets of assumptions were considered to construct sample adjustments using the status code information:

[^1]1. Strict assumption: Eligible establishments are only those for which it was possible to directly determine eligibility. The resulting weights are included in the variable wstrict.
2. Median assumption: Eligible establishments are those for which it was possible to directly determine eligibility and those that rejected the screener questionnaire or an answering machine or fax was the only response. The resulting weights are included in the variable wmedian.
3. Weak assumption: In addition to the establishments included in the first two points, all establishments for which it was not possible to finalize a contact are assumed to be eligible. This includes establishments with dead or out of service phone lines, establishments that never answered the phone, and establishments with incorrect addresses for which it was impossible to find a new address. The resulting weights are included in the variable wweak. Note that under the weak assumption only observed non-eligible units are excluded from universe projections.

Table 8 summarizes the eligibility criteria for each of the above three assumptions.

Note that for the purpose of the weights computations all panel firms were considered to be part of the current universe, although technically they are not randomly selected.

Table 8: Eligibility criteria

| Status Code | Eligibility Criteria |  |  |
| :--- | :--- | :--- | :--- |
|  | Strict | Weak | Median |
| 1. Eligible establishment (Correct name and address) <br> 2. Eligible establishment (Different name but same address - the new <br> firm/establishment bought the original firm/establishment) | 1 | 1 | 1 |
| 3. Eligible establishment (Different name but same address - the |  | 1 | 1 |
| firm/establishment changed its name) | 1 | 1 | 1 |
| 4. Eligible establishment (Wrong address - the firm/establishment has | 1 |  |  |
| changed address and the address could be found) |  |  | 1 |
| 16. Panel firm - now less than five employees | 1 | 1 | 1 |
| 5. The establishment has less than 5 permanent full time employees | 0 | 0 | 0 |
| 6. The firm discontinued businesses | 0 | 0 | 0 |
| 7. Not a business: Private household | 0 | 0 | 0 |
| 8. Ineligible activity: education, agriculture, finances, governments... | 0 | 0 | 0 |
| 91. No reply (after having called in different days of the week and in | 0 | 1 | 0 |
| different business hours) |  |  |  |
| 92. Line out of order | 0 | 1 | 0 |
| 93. No tone | 0 | 1 | 0 |
| 10. Answering machine | 0 | 1 | 1 |
| 11. Fax line - data line | 0 | 1 | 1 |
| 12. Wrong address/ moved away and could not get the new references | 0 | 1 | 0 |
| 13. Refuses to answer the screener | 0 | 1 | 1 |
| 14. In process (the establishment is being called/ is being contacted - | 0 | 0 | 0 |
| previous to ask the screener) |  | 0 | 0 |
| 151. Out of target - outside the covered regions, firm moved abroad | 0 | 0 | 0 |
| 152. Out of target - firm moved abroad |  |  |  |

Strict eligibility $=($ Sum of the numbers with codes $1,2,3,4, \& 16) /$ Total
Weak eligibility $=($ Sum of the numbers with codes $1,2,3,4,16,91,92,93,10,11,12, \& 13) /$ Total
Median eligibility $=($ Sum of the numbers with codes $1,2,3,4,16,10,11, \& 13) /$ Total

### 5.2.1 Appropriate use of the weights

As discussed above, under stratified random sampling weights should be used when making inferences about the population. Any estimate or indicator that aims at describing some feature of the population should take into account that individual observations may not represent equal shares of the population.

However, there is some discussion as to the use of weights in regressions (see Deaton, 1997, p.67; Lohr, 1999, chapter 11, Cochran, 1977, p. 150). There is not strong large sample econometric argument in favour of using weighted estimation for a common population coefficient if the underlying model varies per stratum (stratum-specific coefficient): both simple OLS and weighted OLS are inconsistent under regular conditions. However, weighted OLS has the advantage of providing an estimate that is independent of the sample design. This latter point may be quite relevant for BEEPS as in most cases the objective is not only to obtain model-unbiased estimates but also design-unbiased estimates (see also Cochran, 1977, p. 200 who favours the use of weighted OLS for a common population coefficient). ${ }^{3}$

For a more general approach, if the regressions are descriptive of the population then weights should be used. The estimated model can be thought of as the relationship that would be expected if the whole population were observed. ${ }^{4}$ If the models are developed as structural relationships or behavioural models that may vary for different parts of the population, then there is no reason to use weights.

## 6 Bibliography

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[^2]
## Annex A Country-specific information on BEEPS survey

## A. 1 Djibouti

## A.1.1. Sampling structure and implementation

The sampling frame was based on the Establishment Census by the Ministry of Justice and Trade, which consists of Direction de la Statistique et des Etudes Démographiques (DISED)-classified private and freezone private enterprises. Only Djibouti City was covered.

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $13.8 \%$ ( 58 out of 420 establishments).

| Regions (official administrative counties) | Grouping used for stratification purposes <br> in MENA ES |
| :--- | :--- |
| Djibouti Region (Ville de Djibouti) | Djibouti City |
| Tadjourah Region (Region de Tadjourah) | Not covered |
| Obock Region (Region d'Obock) |  |
| Dikhil Region (Region de Dikhil) |  |
| Arta Region (Region d'Arta) |  |

## Sampling frame

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Djibouti City | $5-19$ | 46 | 102 | 222 | 370 |
|  | $20-99$ | 14 | 36 | 96 | 146 |
|  | $100+$ | 2 | 4 | 31 | 37 |
| Grand Total |  | 62 | 142 | 349 | 553 |

Sources: DISED-classified private and free-zone private enterprises from the Establishment Census 20092010, Ministry of Justice and Trade.

## Original sample design

|  |  |  | Other <br> Region |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Employees | Manufacturing | Retail | Grand Total |  |  |
| Djibouti City | $5-19$ | 34 | 60 | 33 | 127 |
|  | $20-99$ | 14 | 36 | 60 | 110 |
|  | $100+$ | 2 | 4 | 27 | 33 |
| Grand Total |  | 50 | 100 | 120 | 270 |

Realised interviews (based on a2, a4a and a6a)

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Djibouti City | $5-19$ | 29 | 64 | 68 | 161 |
|  | $20-99$ | 8 | 27 | 50 | 85 |
|  | $100+$ | 1 | 3 | 16 | 20 |
| Grand Total |  |  | 38 | 94 | 134 |

## A.1.2. Status codes

|  | TOTAL |
| :--- | :---: |
| Complete interviews (Total) | 266 |
| Complete interviews (not eligible for innovation) | 117 |
| Complete interviews (with innovation) | 143 |
| Complete interviews (eligible, but refused to answer innovation) | 6 |
| Incomplete interviews | 4 |
| Elegible in process | 6 |
| Refusals | 39 |
| Quota is met | 0 |
| Out of target | 56 |
| Impossible to contact | 36 |
| Ineligible - coop. | 2 |
| Refusal to the Screener | 11 |
| Total | 420 |


|  | 1.Elegible establishment (Correct name and address) | 267 |
| :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 1 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 25 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 22 |
|  | 16. Panel firm - now less than five employees | 0 |
|  | 5. The establishment has less than 5 permanent full time employees | 23 |
|  | 6. The firm discontinued businesses | 28 |
|  | 7. Not a business: private household | 4 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 1 |
| $\begin{aligned} & \frac{0}{0} \\ & 0.0 \\ & 0.5 \\ & \pi \\ & 0.0 \\ & 0 \\ & \hline \end{aligned}$ | 91. No reply (after having called in different days of the week and in different business hours) | 6 |
|  | 92. Line out of order | 0 |
|  | 93. No tone | 0 |
|  | 94. Phone number does not exist | 0 |
|  | 10. Answering machine | 0 |
|  | 11. Fax line - data line | 0 |
|  | 12. Wrong address/ moved away and could not get the new references | 30 |
|  | 13. Refuses to answer the screener | 11 |
|  | 14. In process (the establishment is being called/ is being contacted - previous to ask the screener) | 0 |
|  | 151. Out of target - outside the covered regions, firm moved abroad | 0 |
|  | 152. Out of target - firm moved abroad | 0 |
|  | 153. Impossible to find | 2 |
|  | 154. Establishment is HQ without production or sales in the location | 0 |
|  | 156. Duplicate in the sample | 0 |
|  | Total | 420 |

## A.1.3. Survey and item non-response

The number of completed interviews per contacted establishment was $0.63 .{ }^{5}$ This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which

[^3]includes rejections of the screener and the main survey) and the quality of the sampling frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.12 .

## A.1.4. Local agency team involved in the study and its comments on the implementation

## Local agency team involved in the survey

| Local agency | Name: Direction de la Statistique et des Etudes Démographiques (DISED) <br> Country: Djibouti |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved | Enumerators: 8 <br> The interviewers did some of the recruitment. |
| Other staff involved |  |

## Sampling frame

| Characteristic of sample frame <br> used | Variables: Name of establishment, address, activity, telephone number, <br> number of employees |
| :--- | :--- |
| Source | Establishment Census, Ministry of Justice and Trade |
| Year of publication | $2009-2010$ |
| Comments on the quality of the <br> sample frame | The sample frame was not immune from the typical problems found in <br> establishment surveys: positive rates of non- eligibility, repetition, non- <br> existent units, etc. |
| Year and organisation that <br> conducted the last economic <br> census | Ministry of Justice and Trade, 2009-2010 |

## Sample

| Comments/problems on sectors <br> and regions selected in the sample |  |
| :--- | :--- |
| Comments on the response rate |  |
| Comments on the sample design |  |

Fieldwork

| Date of fieldwork | June 2013 - September 2013, with additional call-backs and data finalisation <br> lasting until April 2014. |
| :--- | :--- |
| Country | Djibouti |
| Number of completed interviews | 266 |
| Problems found during fieldwork | Some enterprises refused to disclose financial data, requiring significant <br> number of callbacks. Item non-response was also a significant problem and <br> addressed through re-contacting respondents in order to complete this <br> information, particularly on questions d2 and n7a. Despite the <br> confidentiality of identifying information, many respondents felt <br> uncomfortable giving out specific financial information. In the end, 14 cases <br> were dropped for critically low response rates, where less than $40 \%$ of <br> numeric values were filled in. |
| Actions taken to improve response <br> rate/deal with problems during <br> fieldwork |  |

## Questionnaires

Problems for the understanding of questions (write question number)
Problems found in the navigability
of questionnaires (for example,

| skip patterns) |  |
| :--- | :--- |
| Comments on questionnaire length |  |
| Suggestions or other comments on <br> the questionnaires |  |

## Quality control

| Fieldwork monitoring | Callbacks were made at multiple stages of the fieldwork process. All verifications and consistency checks (for tablet-based interviews) were applied on PC-tablet applications. An error message pops up when entering a wrong value and some error messages show up in red for sensitive questions. |
| :---: | :---: |
| Data checking procedures | DISED conducted ongoing callbacks at the direction of Gallup Europe throughout the fieldwork period. |
| Number of respondents selected for back-checking | 227 out of 280 interviews completed |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact | Telephone and face to face |
| Number of completed interviews back-checked | 227 |
| Number of non-responses backchecked |  |
| Results of alternative method of contacting non-respondents | NA |
| Description of what was covered in the back-checks | A standard callback questionnaire of key variables ( $\mathrm{d} 2, \mathrm{n} 3, \mathrm{I} 1, \mathrm{l} 2, \mathrm{n} 2, \mathrm{n} 7, \mathrm{l} 6$, and I8) was used to confirm the accuracy of recorded data. |
| Number of completed interviews that were rejected and why | 14 cases were removed due to critically low item-level response, below 40\%. |

## Database

| Data entry program chosen | Raw data was directly uploaded from the tablets and computer CATI system, <br> eliminating the need for data entry. |
| :--- | :--- |
| Comments on the data entry <br> program | Cleaning was done to correct variable names and value labels, as well as to <br> insert the 'control variables' (a1-a6) that did not come with the data. <br> Callbacks were also made to correct invalid cases, get more detail on some <br> of the string variables and to complete questions the respondent originally <br> declined to answer. |
| Comments on the data cleaning |  |

## Country situation

General aspects of economic, political or social situation of the country that could affect the results of the survey
Relevant country events that occurred during fieldwork Other aspects

## A. 2 Egypt

## A.2.1. Sampling structure and implementation

Three sampling frames were used. The first was supplied by the World Bank and consisted of enterprises interviewed in Enterprise Survey Egypt 2008. The World Bank required that attempts should be made to re-interview establishments responding to the ES Egypt 2008 where they met eligibility criteria. That
sample is referred to as the Panel. The second sampling frame was compiled from GAFI database and Bureau van Dijk's Orbis database and was current as of 2013.

Regional stratification was defined in four regions. These regions are North, South East, South West, and Yerevan. Table below shows the grouping of official administrative regions into these four regions.

| Governorate | Grouping used for stratification purposes in MENA ES |
| :---: | :---: |
| Cairo | Cairo |
| Alexandria | Alexandria |
| Damietta | Damietta |
| Dakahliya | Dakahliya |
| Sharqia | Sharqia |
| Qalyubia | Qalyubia |
| Kafr-El-Sheikh | Kafr-El-Sheikh/Menoufiya/Beheira |
| Menoufiya |  |
| Beheira |  |
| Gharbiya | Gharbiya |
| Giza | Giza |
| Port Said | Port Said/Suez/Ismailia |
| Suez |  |
| Ismailia |  |
| Beni Suef | Upper Egypt |
| Minya |  |
| Fayoum |  |
| Assuit |  |
| Souhag |  |
| Qena |  |
| Aswan |  |
| Luxor |  |
| Red Sea | Red Sea/Matrouh/Wadi al Jadid/Sinai |
| South Sinai |  |
| North Sinai |  |
| Matrouh |  |
| Wadi al Jadid |  |

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $7.6 \%$ (455 out of 5954 establishments).

Fresh sampling frame

|  | 15 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 26 | 28 | 36 | Other Manufac -turing | 45 | 50 | 51 | 52 | Hote Is | Restau rants | $\begin{aligned} & 60- \\ & 64 \end{aligned}$ | IT | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cairo | 2617 | 506 | 2242 | 1914 | 694 | 1034 | 294 | 345 | 1148 | 1703 | 948 | 1456 | 1230 | 2059 | 4733 | 13311 | 259 | 4364 | 2579 | 214 | 43650 |
| 5-19 | 2521 | 435 | 2022 | 1861 | 678 | 961 | 251 | 279 | 1077 | 1608 | 898 | 1230 | 1100 | 1993 | 4374 | 12860 | 186 | 4114 | 2305 | 187 | 40940 |
| 20-99 | 81 | 53 | 187 | 46 | 14 | 62 | 38 | 55 | 59 | 84 | 41 | 184 | 111 | 62 | 328 | 423 | 54 | 244 | 245 | 23 | 2394 |
| 100+ | 15 | 18 | 33 | 7 | 2 | 11 | 5 | 11 | 12 | 11 | 9 | 42 | 19 | 4 | 31 | 28 | 19 | 6 | 29 | 4 | 316 |
| Alexandria | 1513 | 209 | 778 | 210 | 377 | 232 | 140 | 187 | 252 | 458 | 280 | 424 | 415 | 546 | 1402 | 4199 | 98 | 1873 | 1045 | 48 | 14686 |
| 5-19 | 1412 | 145 | 662 | 197 | 361 | 216 | 96 | 139 | 213 | 409 | 260 | 322 | 372 | 524 | 1245 | 4095 | 66 | 1792 | 930 | 46 | 13502 |
| 20-99 | 76 | 46 | 86 | 11 | 14 | 14 | 34 | 39 | 31 | 43 | 18 | 77 | 42 | 20 | 150 | 91 | 29 | 79 | 111 | 2 | 1013 |
| 100+ | 25 | 18 | 30 | 2 | 2 | 2 | 10 | 9 | 8 | 6 | 2 | 25 | 1 | 2 | 7 | 13 | 3 | 2 | 4 |  | 171 |
| Port Said | 104 | 5 | 47 | 9 | 11 | 10 | 9 | 6 | 16 | 29 | 20 | 34 | 31 | 100 | 141 | 585 | 37 | 308 | 230 | 3 | 1735 |
| 5-19 | 99 | 4 | 11 | 5 | 11 | 10 | 2 | 4 | 13 | 26 | 20 | 24 | 26 | 99 | 130 | 571 | 32 | 298 | 208 | 3 | 1596 |
| 20-99 | 4 |  | 5 | 3 |  |  | 5 | 1 | 3 | 2 |  | 8 | 4 | 1 | 11 | 13 | 3 | 10 | 21 |  | 94 |
| 100+ | 1 | 1 | 31 | 1 |  |  | 2 | 1 |  | 1 |  | 2 | 1 |  |  | 1 | 2 |  | 1 |  | 45 |
| Suez | 167 | 6 | 14 | 2 | 4 | 1 | 8 | 1 | 33 | 25 | 11 | 34 | 22 | 37 | 49 | 208 | 60 | 176 | 145 | 4 | 1007 |
| 5-19 | 148 | 4 | 12 | 1 | 4 | 1 | 1 | 1 | 19 | 19 | 10 | 14 | 16 | 36 | 44 | 199 | 22 | 173 | 133 | 4 | 861 |
| 20-99 | 11 |  | 1 |  |  |  | 3 |  | 10 | 6 |  | 11 | 4 | 1 | 5 | 9 | 27 | 3 | 10 |  | 101 |
| 100+ | 8 | 2 | 1 | 1 |  |  | 4 |  | 4 |  | 1 | 9 | 2 |  |  |  | 11 |  | 2 |  | 45 |
| Luxor | 111 | 5 | 5 | 0 | 2 | 5 | 1 | 0 | 24 | 6 | 24 | 7 | 6 | 12 | 33 | 175 | 80 | 136 | 137 | 0 | 769 |
| 5-19 | 68 | 5 | 5 |  | 2 | 5 | 1 |  | 24 | 6 | 24 | 7 | 5 | 12 | 32 | 173 | 52 | 133 | 124 |  | 678 |
| 20-99 | 2 |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 2 | 19 | 3 | 13 |  | 41 |
| 100+ | 41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |  |  |  | 50 |
| Damietta | 424 | 41 | 30 | 11 | 641 | 4 | 13 | 11 | 81 | 35 | 3120 | 42 | 15 | 75 | 175 | 1243 | 41 | 239 | 220 | 3 | 6464 |
| 5-19 | 412 | 39 | 28 | 10 | 635 | 4 | 11 | 11 | 75 | 35 | 3108 | 40 | 14 | 74 | 170 | 1235 | 41 | 239 | 214 | 3 | 6398 |
| 20-99 | 12 | 2 | 2 | 1 | 6 |  | 2 |  | 6 |  | 12 | 2 | 1 | 1 | 5 | 8 |  |  | 5 |  | 65 |
| 100+ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |
| Dakahliya | 1320 | 382 | 779 | 32 | 243 | 49 | 99 | 148 | 297 | 596 | 352 | 300 | 50 | 410 | 713 | 1367 | 14 | 303 | 184 | 5 | 7643 |
| 5-19 | 1282 | 358 | 734 | 32 | 238 | 47 | 94 | 145 | 230 | 587 | 352 | 271 | 49 | 409 | 665 | 1349 | 9 | 293 | 178 | 5 | 7327 |
| 20-99 | 33 | 24 | 43 |  | 5 | 2 | 4 | 3 | 62 | 8 |  | 25 | 1 | 1 | 44 | 17 | 5 | 9 | 6 |  | 292 |
| 100+ | 5 |  | 2 |  |  |  | 1 |  | 5 | 1 |  | 4 |  |  | 4 | 1 |  | 1 |  |  | 24 |
| Sharkiya | 1669 | 361 | 253 | 30 | 289 | 77 | 127 | 115 | 278 | 356 | 267 | 491 | 78 | 327 | 469 | 1562 | 10 | 319 | 225 | 4 | 7307 |
| 5-19 | 1543 | 265 | 205 | 17 | 274 | 55 | 42 | 53 | 207 | 290 | 249 | 285 | 65 | 316 | 324 | 1426 | 10 | 313 | 205 | 4 | 6148 |
| 20-99 | 87 | 50 | 24 | 10 | 14 | 13 | 60 | 39 | 45 | 54 | 12 | 132 | 10 | 6 | 87 | 86 |  | 6 | 15 |  | 750 |
| 100+ | 39 | 46 | 24 | 3 | 1 | 9 | 25 | 23 | 26 | 12 | 6 | 74 | 3 | 5 | 58 | 50 |  |  | 5 |  | 409 |
| Qualyubia | 1714 | 823 | 499 | 125 | 397 | 107 | 184 | 551 | 314 | 583 | 342 | 621 | 36 | 285 | 636 | 1543 | 2 | 604 | 446 | 3 | 9815 |
| 5-19 | 1643 | 564 | 401 | 105 | 387 | 87 | 142 | 488 | 277 | 525 | 327 | 468 | 30 | 272 | 600 | 1480 | 2 | 603 | 429 | 3 | 8833 |
| 20-99 | 53 | 244 | 80 | 17 | 10 | 19 | 34 | 58 | 19 | 49 | 10 | 129 | 5 | 12 | 31 | 53 |  | 1 | 16 |  | 840 |
| 100+ | 18 | 15 | 18 | 3 |  | 1 | 8 | 5 | 18 | 9 | 5 | 24 | 1 | 1 | 5 | 10 |  |  | 1 |  | 142 |
| Kafr-El-Sheikh\} Menoufiya\Beheira | 2502 | 502 | 248 | 45 | 346 | 80 | 79 | 89 | 547 | 313 | 510 | 300 | 74 | 363 | 821 | 2175 | 19 | 483 | 241 | 4 | 9741 |
| 5-19 | 2405 | 459 | 231 | 41 | 342 | 78 | 54 | 81 | 411 | 304 | 504 | 253 | 68 | 363 | 777 | 2137 | 17 | 472 | 231 | 4 | 9232 |
| 20-99 | 82 | 36 | 12 | 2 | 4 | 1 | 20 | 7 | 132 | 9 | 5 | 31 | 5 |  | 37 | 32 | 2 | 11 | 8 |  | 436 |
| 100+ | 15 | 7 | 5 | 2 |  | 1 | 5 | 1 | 4 |  | 1 | 16 | 1 |  | 7 | 6 |  |  | 2 |  | 73 |
| Gharbiya | 1259 | 1780 | 741 | 165 | 301 | 121 | 115 | 92 | 380 | 257 | 266 | 193 | 58 | 267 | 595 | 1600 | 13 | 387 | 185 | 8 | 8783 |


| 5-19 | 1207 | 1600 | 633 | 160 | 298 | 112 | 98 | 86 | 297 | 250 | 264 | 176 | 54 | 265 | 539 | 1555 | 10 | 379 | 174 | 8 | 8165 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20-99 | 45 | 147 | 98 | 5 | 3 | 9 | 15 | 5 | 81 | 6 | 2 | 15 | 3 | 2 | 54 | 41 | 3 | 8 | 11 |  | 553 |
| 100+ | 7 | 33 | 10 |  |  |  | 2 | 1 | 2 | 1 |  | 2 | 1 |  | 2 | 4 |  |  |  |  | 65 |
| Ismailia | 359 | 8 | 39 | 6 | 25 | 5 | 24 | 18 | 46 | 36 | 37 | 40 | 21 | 57 | 207 | 320 | 15 | 144 | 39 | 5 | 1451 |
| 5-19 | 335 | 7 | 20 | 3 | 25 | 4 | 16 | 13 | 45 | 35 | 37 | 28 | 19 | 57 | 190 | 304 | 11 | 141 | 38 | 5 | 1333 |
| 20-99 | 20 | 1 | 2 | 3 |  | 1 | 4 | 3 | 1 | 1 |  | 10 | 2 |  | 14 | 13 | 4 | 3 |  |  | 82 |
| 100+ | 4 |  | 17 |  |  |  | 4 | 2 |  |  |  | 2 |  |  | 3 | 3 |  |  | 1 |  | 36 |
| Giza | 1786 | 181 | 1071 | 100 | 292 | 361 | 187 | 109 | 726 | 599 | 534 | 596 | 425 | 900 | 1285 | 4923 | 114 | 2126 | 960 | 105 | 17380 |
| 5-19 | 1598 | 160 | 957 | 84 | 272 | 319 | 95 | 68 | 393 | 558 | 508 | 368 | 365 | 873 | 1122 | 4726 | 67 | 2020 | 855 | 85 | 15493 |
| 20-99 | 120 | 14 | 91 | 8 | 4 | 32 | 47 | 19 | 276 | 27 | 21 | 120 | 50 | 21 | 144 | 178 | 35 | 100 | 78 | 17 | 1402 |
| 100+ | 68 | 7 | 23 | 8 | 16 | 10 | 45 | 22 | 57 | 14 | 5 | 108 | 10 | 6 | 19 | 19 | 12 | 6 | 27 | 3 | 485 |
| Bani-Suef\Minya | 2530 | 34 | 36 | 2 | 91 | 22 | 39 | 20 | 92 | 95 | 155 | 65 | 42 | 126 | 327 | 785 | 20 | 367 | 92 | 6 | 4946 |
| 5-19 | 2472 | 30 | 34 | 2 | 89 | 22 | 29 | 17 | 66 | 93 | 154 | 56 | 36 | 126 | 315 | 773 | 16 | 364 | 86 | 6 | 4786 |
| 20-99 | 53 | 4 | 1 |  | 2 |  | 10 | 2 | 21 | 1 | 1 | 9 | 6 |  | 11 | 12 | 4 | 3 | 6 |  | 146 |
| 100+ | 5 |  | 1 |  |  |  |  | 1 | 5 | 1 |  |  |  |  | 1 |  |  |  |  |  | 14 |
| Fayoum | 502 | 37 | 19 | 12 | 281 | 19 | 16 | 5 | 137 | 42 | 155 | 25 | 8 | 58 | 130 | 441 | 8 | 202 | 47 | 2 | 2146 |
| 5-19 | 490 | 34 | 19 | 12 | 279 | 18 | 16 | 3 | 91 | 41 | 155 | 18 | 7 | 58 | 121 | 435 | 8 | 201 | 44 | 2 | 2052 |
| 20-99 | 9 | 3 |  |  | 2 | 1 |  | 2 | 44 | 1 |  | 4 | 1 |  | 9 | 5 |  | 1 | 2 |  | 84 |
| 100+ | 3 |  |  |  |  |  |  |  | 2 |  |  | 3 |  |  |  | 1 |  |  | 1 |  | 10 |
| Assuit | 1010 | 8 | 31 | 15 | 60 | 16 | 20 | 28 | 119 | 76 | 113 | 67 | 23 | 118 | 162 | 486 | 26 | 199 | 71 | 4 | 2652 |
| 5-19 | 979 | 8 | 31 | 15 | 59 | 16 | 18 | 26 | 117 | 76 | 112 | 62 | 23 | 116 | 146 | 480 | 22 | 194 | 65 | 4 | 2569 |
| 20-99 | 26 |  |  |  | 1 |  | 2 | 2 | 1 |  | 1 | 4 |  | 2 | 14 | 6 | 3 | 5 | 5 |  | 72 |
| 100+ | 5 |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  | 2 |  | 1 |  | 1 |  | 11 |
| Souhag | 602 | 9 | 19 | 1 | 49 | 12 | 7 | 10 | 110 | 49 | 119 | 26 | 24 | 54 | 157 | 364 | 14 | 178 | 60 | 2 | 1866 |
| 5-19 | 585 | 9 | 18 | 1 | 49 | 12 | 5 | 10 | 109 | 47 | 119 | 24 | 22 | 53 | 141 | 360 | 13 | 178 | 55 | 2 | 1812 |
| 20-99 | 14 |  | 1 |  |  |  | 2 |  | 1 | 2 |  | 2 | 1 | 1 | 16 | 4 | 1 |  | 4 |  | 49 |
| 100+ | 3 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  | 5 |
| Qena | 336 | 1 | 6 | 2 | 53 | 9 | 4 | 11 | 104 | 46 | 72 | 23 | 14 | 43 | 123 | 293 | 8 | 136 | 33 | 4 | 1321 |
| 5-19 | 330 | 1 | 6 | 2 | 52 | 9 | 3 | 10 | 102 | 46 | 72 | 18 | 13 | 43 | 115 | 286 | 8 | 134 | 30 | 4 | 1284 |
| 20-99 | 5 |  |  |  |  |  | 1 | 1 | 1 |  |  | 2 | 1 |  | 8 | 6 |  | 2 | 3 |  | 30 |
| 100+ | 1 |  |  |  | 1 |  |  |  | 1 |  |  | 3 |  |  |  | 1 |  |  |  |  | 7 |
| Aswan | 239 | 1 | 7 | 0 | 11 | 9 | 1 | 1 | 37 | 14 | 82 | 11 | 18 | 39 | 47 | 274 | 55 | 165 | 116 | 3 | 1130 |
| 5-19 | 234 | 1 | 7 |  | 11 | 9 | 1 | 1 | 36 | 14 | 82 | 11 | 18 | 39 | 45 | 263 | 48 | 164 | 114 | 3 | 1101 |
| 20-99 | 4 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 2 | 10 | 3 | 1 | 2 |  | 23 |
| 100+ | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 4 |  |  |  | 6 |
| Red Sea\North | 164 | 6 | 2 | 2 | 25 | 7 | 2 | 0 | 78 | 17 | 18 | 14 | 45 | 46 | 72 | 428 | 687 | 554 | 257 | 2 | 2426 |
| Sinai\South Sinai |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5-19 | 161 | 4 | 2 | 2 | 22 | 7 | 2 |  | 73 | 17 | 18 | 13 | 35 | 46 | 69 | 415 | 378 | 535 | 197 | 2 | 1998 |
| 20-99 | 3 | 1 |  |  | 3 |  |  |  | 3 |  |  |  | 8 |  | 3 | 11 | 147 | 19 | 44 |  | 242 |
| 100+ |  | 1 |  |  |  |  |  |  | 2 |  |  | 1 | 2 |  |  | 2 | 162 |  | 16 |  | 186 |
| Wadi al Jadid | 56 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 16 | 6 | 19 | 0 | 4 | 9 | 5 | 27 | 11 | 27 | 5 | 0 | 189 |
| 5-19 | 47 |  | 2 |  | 1 | 1 |  |  | 13 | 6 | 19 |  | 4 | 9 | 5 | 27 | 10 | 27 | 5 |  | 176 |
| 20-99 | 6 |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  | 1 |  |  |  | 10 |
| 100+ | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| Matrouh | 90 | 2 | 2 | 0 | 12 | 0 | 0 | 0 | 24 | 11 | 10 | 5 | 14 | 4 | 4 | 55 | 37 | 87 | 14 | 1 | 372 |
| 5-19 | 83 | 1 | 2 |  | 12 |  |  |  | 24 | 11 | 10 | 4 | 11 | 4 | 3 | 54 | 33 | 87 | 12 | 1 | 352 |
| 20-99 | 6 | 1 |  |  |  |  |  |  |  |  |  | 1 | 2 |  | 1 | 1 | 3 |  | 1 |  | 16 |


| 100+ | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  | 1 |  |  | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grand Total | 21074 | 4907 | 6870 | 2683 | 4205 | 2181 | 1369 | 1747 | 4859 | 5352 | 7454 | 4774 | 2653 | 5935 | 12286 | 36364 | 1628 | 13377 | 7331 | 430 | 147479 |

Source: CAPMAS 2010.

Panel sampling frame

|  | 15 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 26 | 28 | 36 | Other <br> Manufac -turing | 45 | 50 | 51 | 52 | Hote Is | Restau rants | $\begin{aligned} & 60- \\ & 64 \\ & \hline \end{aligned}$ | IT | Grand <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cairo | 11 | 25 | 58 | 24 | 1 | 2 | 17 | 11 | 15 | 50 | 12 | 34 | 30 | 0 | 0 | 0 | 29 | 83 | 62 | 0 | 464 |
| 5-19 | 4 | 8 | 26 | 14 | 1 |  | 2 | 6 | 6 | 18 | 7 | 9 | 9 |  |  |  | 4 | 39 | 27 |  | 180 |
| 20-99 | 1 | 6 | 21 | 7 |  | 2 | 5 | 4 | 3 | 15 | 4 | 15 | 13 |  |  |  | 17 | 32 | 27 |  | 172 |
| 100+ | 6 | 11 | 11 | 3 |  |  | 10 | 1 | 6 | 17 | 1 | 10 | 8 |  |  |  | 8 | 12 | 8 |  | 112 |
| Alexandria | 23 | 19 | 22 | 4 | 4 | 1 | 12 | 12 | 1 | 22 | 4 | 13 | 8 | 0 | 0 | 0 | 9 | 38 | 7 | 0 | 199 |
| 5-19 | 1 | 5 | 10 | 1 | 1 |  |  | 4 |  | 6 |  | 1 | 4 |  |  |  | 1 | 22 | 6 |  | 62 |
| 20-99 | 3 | 3 | 2 | 2 | 2 |  | 5 | 6 | 1 | 9 | 3 | 2 | 4 |  |  |  | 5 | 15 | 1 |  | 63 |
| 100+ | 19 | 11 | 10 | 1 | 1 | 1 | 7 | 2 |  | 7 | 1 | 10 |  |  |  |  | 3 | 1 |  |  | 74 |
| Port Said | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 5-19 | 1 |  |  | 1 |  |  |  |  |  | 1 | 2 | 1 |  |  |  |  |  |  |  |  | 6 |
| 20-99 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| 100+ | 1 |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 3 |
| Suez | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5-19 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |
| 20-99 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| 100+ | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Luxor | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 5 | 0 | 30 |
| 5-19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 7 | 3 |  | 12 |
| 20-99 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 5 | 2 |  | 10 |
| 100+ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |  |  |  | 8 |
| Damietta | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 5-19 | 2 |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  | 4 |
| 20-99 |  | 1 | 1 |  |  |  | 1 |  |  |  | 2 |  |  |  |  |  |  |  |  |  | 5 |
| 100+ |  |  |  |  |  |  |  | 1 |  | 1 | 3 | 2 |  |  |  |  |  |  |  |  | 7 |
| Dakahliya | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 3 | 6 | 7 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 5-19 | 2 | 1 | 2 |  |  |  |  | 2 | 1 | 5 |  | 1 |  |  |  |  |  |  |  |  | 14 |
| 20-99 |  | 1 | 1 |  |  |  |  | 1 | 4 | 1 | 2 | 1 |  |  |  |  |  |  |  |  | 11 |
| 100+ | 4 | 1 |  |  |  |  |  |  | 1 | 1 |  | 2 |  |  |  |  |  |  |  |  | 9 |
| Sharkiya | 27 | 21 | 8 | 4 | 0 | 1 | 12 | 15 | 10 | 31 | 3 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 |
| 5-19 | 8 |  |  |  |  |  | 3 | 3 | 6 | 8 | 2 | 4 |  |  |  |  |  |  |  |  | 34 |
| 20-99 | 6 | 5 | 2 | 2 |  |  | 3 | 7 | 3 | 9 |  | 4 |  |  |  |  |  |  |  |  | 41 |
| 100+ | 13 | 16 | 6 | 2 |  | 1 | 6 | 5 | 1 | 14 | 1 | 9 |  |  |  |  |  |  |  |  | 74 |
| Qualyubia | 11 | 22 | 11 | 0 | 3 | 0 | 5 | 17 | 8 | 10 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |
| 5-19 | 3 | 5 | 1 |  | 3 |  | 2 | 5 | 1 | 2 |  | 1 |  |  |  |  |  |  |  |  | 23 |
| 20-99 | 1 | 15 | 6 |  |  |  | 1 | 7 | 2 | 4 |  | 2 |  |  |  |  |  |  |  |  | 38 |



| 100+ |  |  |  |  |  |  |  |  |  |  |  |  | 23 2 |  |  |  |  |  |  |  | 25 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wadi al Jadid | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | , |  |
| 5-19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 20-99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 100+ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Matrouh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 7 |
| 5-19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 20-99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |  |  |  | 6 |
| 100+ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |
| Grand Total | 160 | 180 | 147 | 35 | 19 | 4 | 74 | 94 | 91 | 175 | 44 | 143 | 47 | 0 | 1 | 0 | 157 | 224 | 105 | 0 | 1700 |

Source: ES Egypt 2008.
Universe estimates

|  | 15 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 26 | 28 | 36 | Other Manufac -turing | 45 | 50 | 51 | 52 | Hote Is | Restau rants | $\begin{gathered} 60- \\ 64 \end{gathered}$ | IT | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cairo | 100 | 96 | 246 | 67 | 17 | 73 | 58 | 75 | 77 | 130 | 87 | 57 | 235 | 143 | 359 | 451 | 77 | 295 | 301 | 27 | 2971 |
| 5-19 | 4 | 8 | 26 | 14 | 1 | 0 | 2 | 6 | 6 | 19 | 0 | 7 | 9 | 9 | 0 | 0 | 4 | 39 | 27 | 0 | 181 |
| 20-99 | 81 | 53 | 187 | 46 | 14 | 62 | 38 | 55 | 59 | 84 | 62 | 41 | 184 | 111 | 328 | 423 | 54 | 244 | 245 | 23 | 2394 |
| 100+ | 15 | 35 | 33 | 7 | 2 | 11 | 18 | 14 | 12 | 27 | 25 | 9 | 42 | 23 | 31 | 28 | 19 | 12 | 29 | 4 | 396 |
| Alexandria | 1517 | 217 | 790 | 214 | 380 | 235 | 145 | 197 | 253 | 475 | 546 | 283 | 427 | 427 | 1402 | 4199 | 104 | 1910 | 1052 | 48 | 14821 |
| 5-19 | 1 | 5 | 10 | 1 | 1 | 0 | 0 | 4 | 0 | 6 | 0 | 0 | 1 | 4 | 0 | 0 | 1 | 22 | 6 | 0 | 62 |
| 20-99 | 3 | 3 | 2 | 2 | 2 | 0 | 5 | 6 | 1 | 9 | 0 | 3 | 2 | 4 | 0 | 0 | 5 | 15 | 1 | 0 | 63 |
| 100+ | 25 | 18 | 30 | 3 | 2 | 5 | 10 | 9 | 8 | 8 | 2 | 2 | 25 | 5 | 7 | 13 | 3 | 2 | 4 | 0 | 181 |
| Port Said | 104 | 8 | 47 | 9 | 11 | 10 | 9 | 6 | 16 | 29 | 100 | 20 | 34 | 31 | 141 | 585 | 37 | 308 | 231 | 3 | 1739 |
| 5-19 | 99 | 4 | 11 | 5 | 11 | 10 | 2 | 4 | 13 | 26 | 99 | 20 | 24 | 26 | 130 | 571 | 32 | 298 | 208 | 3 | 1596 |
| 20-99 | 4 | 3 | 5 | 3 | 0 | 0 | 5 | 1 | 3 | 2 | 1 | 0 | 8 | 4 | 11 | 13 | 3 | 10 | 21 | 0 | 97 |
| 100+ | 1 | 1 | 31 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 46 |
| Suez | 167 | 6 | 14 | 2 | 4 | 1 | 8 | 1 | 33 | 25 | 37 | 11 | 34 | 22 | 49 | 208 | 60 | 176 | 145 | 4 | 1007 |
| 5-19 | 148 | 4 | 12 | 1 | 4 | 1 | 1 | 1 | 19 | 19 | 36 | 10 | 14 | 16 | 44 | 199 | 22 | 173 | 133 | 4 | 861 |
| 20-99 | 11 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 10 | 6 | 1 | 0 | 11 | 4 | 5 | 9 | 27 | 3 | 10 | 0 | 101 |
| 100+ | 8 | 2 | 1 | 1 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 1 | 9 | 2 | 0 | 0 | 11 | 0 | 2 | 0 | 45 |
| Luxor | 111 | 5 | 5 | 0 | 2 | 5 | 1 | 0 | 24 | 6 | 12 | 24 | 7 | 6 | 33 | 175 | 80 | 138 | 137 | 0 | 771 |
| 5-19 | 68 | 5 | 5 | 0 | 2 | 5 | 1 | 0 | 24 | 6 | 12 | 24 | 7 | 5 | 32 | 173 | 52 | 133 | 124 | 0 | 678 |
| 20-99 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 19 | 5 | 13 | 0 | 43 |
| 100+ | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 50 |
| Damietta | 16 | 3 | 2 | 1 | 6 | 1 | 2 | 6 | 6 | 8 | 1 | 21 | 6 | 1 | 5 | 8 | 0 | 0 | 6 | 0 | 99 |
| 5-19 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 20-99 | 12 | 2 | 2 | 1 | 6 | 1 | 2 | 3 | 6 | 7 | 1 | 17 | 2 | 1 | 5 | 8 | 0 | 0 | 5 | 0 | 81 |
| 100+ | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 14 |
| Dakahliya | 40 | 27 | 47 | 0 | 5 | 2 | 5 | 6 | 68 | 17 | 1 | 3 | 30 | 1 | 48 | 18 | 5 | 10 | 6 | 0 | 339 |
| 5-19 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 20-99 | 33 | 24 | 43 | 0 | 5 | 2 | 4 | 4 | 62 | 10 | 1 | 3 | 25 | 1 | 44 | 17 | 5 | 9 | 6 | 0 | 298 |
| 100+ | 5 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 5 | 2 | 0 | 0 | 4 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 27 |
| Sharkiya | 134 | 96 | 48 | 14 | 15 | 22 | 88 | 65 | 77 | 77 | 11 | 20 | 210 | 13 | 145 | 136 | 0 | 6 | 20 | 0 | 1197 |


| 5-19 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 8 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20-99 | 87 | 50 | 24 | 10 | 14 | 13 | 60 | 39 | 45 | 54 | 6 | 12 | 132 | 10 | 87 | 86 | 0 | 6 | 15 | 0 | 750 |
| 100+ | 39 | 46 | 24 | 4 | 1 | 9 | 25 | 23 | 26 | 15 | 5 | 6 | 74 | 3 | 58 | 50 | 0 | 0 | 5 | 0 | 413 |
| Qualyubia | 74 | 264 | 99 | 20 | 13 | 21 | 44 | 70 | 38 | 60 | 13 | 15 | 154 | 6 | 36 | 63 | 0 | 1 | 17 | 0 | 1008 |
| 5-19 | 3 | 5 | 1 | 0 | 3 | 0 | 2 | 5 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 20-99 | 53 | 244 | 80 | 17 | 10 | 19 | 34 | 58 | 19 | 49 | 12 | 10 | 129 | 5 | 31 | 53 | 0 | 1 | 16 | 0 | 840 |
| 100+ | 18 | 15 | 18 | 3 | 0 | 2 | 8 | 7 | 18 | 9 | 1 | 5 | 24 | 1 | 5 | 10 | 0 | 0 | 1 | 0 | 145 |
| Kafr-El-Sheikh\} <br> Menoufiya\Beheira | 2502 | 512 | 256 | 45 | 346 | 86 | 80 | 89 | 549 | 317 | 363 | 510 | 304 | 74 | 821 | 2175 | 19 | 483 | 241 | 4 | 9776 |
| 5-19 | 2405 | 459 | 231 | 41 | 342 | 78 | 54 | 81 | 411 | 304 | 363 | 504 | 253 | 68 | 777 | 2137 | 17 | 472 | 231 | 4 | 9232 |
| 20-99 | 82 | 36 | 17 | 2 | 4 | 5 | 20 | 7 | 132 | 9 | 0 | 5 | 31 | 5 | 37 | 32 | 2 | 11 | 8 | 0 | 445 |
| 100+ | 15 | 17 | 8 | 2 | 0 | 3 | 6 | 1 | 6 | 4 | 0 | 1 | 20 | 1 | 7 | 6 | 0 | 0 | 2 | 0 | 99 |
| Gharbiya | 54 | 193 | 117 | 5 | 3 | 9 | 17 | 7 | 85 | 22 | 2 | 2 | 19 | 4 | 56 | 45 | 3 | 8 | 11 | 0 | 662 |
| 5-19 | 2 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 20-99 | 45 | 147 | 98 | 5 | 3 | 9 | 15 | 5 | 81 | 19 | 2 | 2 | 15 | 3 | 54 | 41 | 3 | 8 | 11 | 0 | 566 |
| 100+ | 7 | 33 | 17 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 0 | 0 | 2 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 73 |
| Ismailia | 359 | 8 | 39 | 7 | 25 | 5 | 24 | 18 | 46 | 36 | 57 | 38 | 40 | 21 | 207 | 320 | 15 | 144 | 39 | 5 | 1453 |
| 5-19 | 335 | 7 | 20 | 3 | 25 | 4 | 16 | 13 | 45 | 35 | 57 | 37 | 28 | 19 | 190 | 304 | 11 | 141 | 38 | 5 | 1333 |
| 20-99 | 20 | 1 | 2 | 3 | 0 | 1 | 4 | 3 | 1 | 1 | 0 | 1 | 10 | 2 | 14 | 13 | 4 | 3 | 0 | 0 | 83 |
| 100+ | 4 | 0 | 17 | 1 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 3 | 0 | 0 | 1 | 0 | 37 |
| Giza | 189 | 27 | 119 | 17 | 20 | 43 | 92 | 43 | 334 | 45 | 27 | 26 | 232 | 63 | 163 | 197 | 48 | 126 | 118 | 20 | 1949 |
| 5-19 | 1 | 3 | 5 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 20 | 13 | 0 | 56 |
| 20-99 | 120 | 14 | 91 | 9 | 4 | 32 | 47 | 19 | 276 | 27 | 21 | 21 | 120 | 50 | 144 | 178 | 35 | 100 | 78 | 17 | 1403 |
| 100+ | 68 | 10 | 23 | 8 | 16 | 11 | 45 | 22 | 57 | 14 | 6 | 5 | 108 | 10 | 19 | 19 | 13 | 6 | 27 | 3 | 490 |
| Bani-Suef\Minya | 2530 | 37 | 4 | 0 | 7 | 0 | 13 | 12 | 31 | 17 | 0 | 4 | 12 | 6 | 12 | 12 | 4 | 4 | 6 | 0 | 2711 |
| 5-19 | 2472 | 30 | 1 | 0 | 5 | 0 | 3 | 7 | 5 | 3 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2532 |
| 20-99 | 53 | 5 | 1 | 0 | 2 | 0 | 10 | 3 | 21 | 13 | 0 | 2 | 9 | 6 | 11 | 12 | 4 | 3 | 6 | 0 | 161 |
| 100+ | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 18 |
| Fayoum | 502 | 39 | 1 | 0 | 2 | 1 | 3 | 3 | 48 | 3 | 0 | 1 | 8 | 1 | 9 | 6 | 2 | 5 | 3 | 0 | 637 |
| 5-19 | 490 | 34 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 534 |
| 20-99 | 9 | 3 | 0 | 0 | 2 | 1 | 1 | 2 | 44 | 3 | 0 | 1 | 4 | 1 | 9 | 5 | 0 | 1 | 2 | 0 | 88 |
| 100+ | 3 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 15 |
| Assuit | 1010 | 11 | 31 | 15 | 60 | 17 | 20 | 29 | 119 | 77 | 118 | 116 | 67 | 23 | 162 | 486 | 26 | 199 | 71 | 4 | 2661 |
| 5-19 | 979 | 11 | 31 | 15 | 59 | 16 | 18 | 26 | 117 | 76 | 116 | 112 | 62 | 23 | 146 | 480 | 22 | 194 | 65 | 4 | 2572 |
| 20-99 | 26 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 2 | 4 | 0 | 14 | 6 | 3 | 5 | 5 | 0 | 76 |
| 100+ | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 13 |
| Souhag | 603 | 11 | 19 | 1 | 49 | 12 | 7 | 13 | 111 | 58 | 54 | 119 | 30 | 24 | 158 | 364 | 14 | 178 | 60 | 2 | 1887 |
| 5-19 | 585 | 9 | 18 | 1 | 49 | 12 | 5 | 10 | 109 | 47 | 53 | 119 | 24 | 22 | 141 | 360 | 13 | 178 | 55 | 2 | 1812 |
| 20-99 | 14 | 1 | 1 | 0 | 0 | 0 | 2 | 3 | 1 | 11 | 1 | 0 | 5 | 1 | 16 | 4 | 1 | 0 | 4 | 0 | 65 |
| 100+ | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 10 |
| Qena | 337 | 2 | 8 | 2 | 53 | 9 | 4 | 11 | 104 | 47 | 43 | 72 | 23 | 14 | 123 | 293 | 10 | 136 | 33 | 4 | 1328 |
| 5-19 | 330 | 1 | 6 | 2 | 52 | 9 | 3 | 10 | 102 | 46 | 43 | 72 | 18 | 13 | 115 | 286 | 8 | 134 | 30 | 4 | 1284 |
| 20-99 | 5 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 1 | 8 | 6 | 2 | 2 | 3 | 0 | 36 |
| 100+ | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| Aswan | 240 | 1 | 7 | 0 | 12 | 9 | 1 | 1 | 37 | 16 | 39 | 82 | 11 | 18 | 47 | 274 | 59 | 166 | 116 | 3 | 1139 |
| 5-19 | 234 | 1 | 7 | 0 | 11 | 9 | 1 | 1 | 36 | 14 | 39 | 82 | 11 | 18 | 45 | 263 | 48 | 164 | 114 | 3 | 1101 |



Original sample design

|  | 15 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 26 | 28 | 36 | Other Manufac -turing | 45 | 50 | 51 | 52 | Hote Is | Restau rants | $\begin{aligned} & 60- \\ & 64 \\ & \hline \end{aligned}$ | IT | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cairo | 18 | 33 | 41 | 53 | 23 | 40 | 23 | 29 | 17 | 32 | 19 | 12 | 11 | 19 | 18 | 42 | 9 | 20 | 11 | 30 | 500 |
| 5-19 | 14 | 6 | 22 | 30 | 10 | 16 | 3 | 6 | 7 | 16 | 6 | 5 | 3 | 9 | 12 | 36 | 3 | 14 | 5 | 9 | 232 |
| 20-99 | 2 | 11 | 7 | 16 | 11 | 13 | 10 | 12 | 2 | 5 | 4 | 2 | 5 | 6 | 3 | 3 | 3 | 3 | 3 | 17 | 138 |
| 100+ | 2 | 16 | 12 | 7 | 2 | 11 | 10 | 11 | 8 | 11 | 9 | 5 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 130 |
| Alexandria | 10 | 17 | 10 | 13 | 9 | 10 | 15 | 17 | 7 | 9 | 7 | 6 | 5 | 7 | 6 | 14 | 3 | 8 | 3 | 9 | 185 |
| 5-19 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 8 | 1 | 3 | 1 | 7 | 62 |
| 20-99 | 2 | 4 | 2 | 8 | 4 | 5 | 3 | 5 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 3 | 1 | 3 | 1 | 2 | 60 |
| 100+ | 2 | 10 | 5 | 2 | 2 | 2 | 9 | 9 | 2 | 4 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 0 | 63 |
| Port Said | 6 | 3 | 19 | 9 | 3 | 3 | 8 | 4 | 5 | 6 | 3 | 6 | 7 | 5 | 4 | 5 | 6 | 6 | 9 | 3 | 120 |
| 5-19 | 3 | 2 | 3 | 5 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 4 | 2 | 2 | 1 | 3 | 1 | 3 | 51 |
| 20-99 | 2 | 0 | 5 | 3 | 0 | 0 | 5 | 1 | 2 | 2 | 0 | 2 | 4 | 1 | 2 | 2 | 3 | 3 | 7 | 0 | 44 |
| 100+ | 1 | 1 | 11 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 25 |
| Suez | 10 | 6 | 6 | 2 | 4 | 1 | 8 | 1 | 17 | 9 | 4 | 17 | 9 | 6 | 4 | 4 | 11 | 6 | 11 | 4 | 140 |
| 5-19 | 3 | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 3 | 3 | 3 | 2 | 3 | 5 | 2 | 2 | 1 | 3 | 1 | 4 | 51 |
| 20-99 | 2 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 10 | 6 | 0 | 6 | 4 | 1 | 2 | 2 | 6 | 3 | 8 | 0 | 54 |
| 100+ | 5 | 2 | 1 | 1 | 0 | 0 | 4 | 0 | 4 | 0 | 1 | 9 | 2 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 35 |
| Luxor | 11 | 5 | 4 | 0 | 2 | 5 | 1 | 0 | 3 | 4 | 3 | 2 | 6 | 9 | 3 | 3 | 20 | 8 | 16 | 0 | 105 |
| 5-19 | 3 | 5 | 4 | 0 | 2 | 5 | 1 | 0 | 3 | 4 | 3 | 2 | 5 | 9 | 2 | 2 | 1 | 3 | 3 | 0 | 57 |
| 20-99 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 10 | 5 | 13 | 0 | 33 |
| 100+ | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 15 |
| Damietta | 5 | 5 | 5 | 4 | 8 | 2 | 5 | 4 | 5 | 4 | 34 | 4 | 3 | 4 | 4 | 8 | 1 | 3 | 7 | 3 | 118 |
| 5-19 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 29 | 2 | 2 | 3 | 2 | 5 | 1 | 3 | 1 | 3 | 80 |
| 20-99 | 2 | 2 | 2 | 1 | 5 | 0 | 2 | 0 | 2 | 0 | 2 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 5 | 0 | 31 |
| 100+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 7 |
| Dakahliya | 10 | 11 | 8 | 3 | 8 | 5 | 8 | 6 | 10 | 6 | 4 | 6 | 2 | 2 | 6 | 9 | 2 | 7 | 2 | 5 | 120 |
| 5-19 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 5 | 1 | 3 | 1 | 5 | 57 |
| 20-99 | 2 | 7 | 3 | 0 | 5 | 2 | 4 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 0 | 45 |
| 100+ | 2 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 5 | 1 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 18 |
| Sharkiya | 10 | 9 | 7 | 8 | 6 | 11 | 8 | 10 | 7 | 7 | 7 | 6 | 3 | 5 | 6 | 11 | 1 | 6 | 3 | 4 | 135 |
| 5-19 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 5 | 1 | 3 | 1 | 4 | 56 |
| 20-99 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 0 | 3 | 1 | 0 | 37 |
| 100+ | 2 | 4 | 2 | 3 | 1 | 6 | 3 | 5 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 0 | 42 |
| Qualyubia | 10 | 9 | 7 | 8 | 5 | 6 | 7 | 10 | 7 | 7 | 7 | 6 | 3 | 5 | 6 | 11 | 1 | 4 | 3 | 3 | 125 |
| 5-19 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 5 | 1 | 3 | 1 | 3 | 55 |
| 20-99 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 0 | 1 | 1 | 0 | 35 |
| 100+ | 2 | 4 | 2 | 3 | 0 | 1 | 2 | 5 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 0 | 35 |
| Kafr-El-Sheikh\} Menoufiya\Beheira | 10 | 10 | 7 | 7 | 5 | 5 | 9 | 6 | 7 | 7 | 6 | 6 | 7 | 1 | 6 | 11 | 2 | 6 | 3 | 4 | 125 |
| 5-19 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 5 | 1 | 3 | 1 | 4 | 56 |
| 20-99 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 0 | 2 | 3 | 1 | 3 | 1 | 0 | 38 |
| 100+ | 2 | 5 | 2 | 2 | 0 | 1 | 4 | 1 | 2 | 2 | 1 | 2 | 1 | 0 | 2 | 3 | 0 | 0 | 1 | 0 | 31 |
| Gharbiya | 10 | 16 | 7 | 6 | 5 | 5 | 7 | 6 | 7 | 6 | 4 | 6 | 3 | 2 | 5 | 10 | 2 | 6 | 2 | 2 | 117 |


| 5-19 | 6 | 10 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 5 | 1 | 3 | 1 | 2 | 61 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20-99 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 0 | 36 |
| 100+ | 2 | 4 | 2 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 20 |
| Ismailia | 7 | 5 | 19 | 6 | 5 | 5 | 11 | 10 | 4 | 4 | 3 | 6 | 3 | 3 | 6 | 6 | 4 | 6 | 2 | 5 | 120 |
| 5-19 | 3 | 4 | 3 | 3 | 5 | 4 | 3 | 5 | 3 | 3 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 3 | 1 | 5 | 59 |
| 20-99 | 2 | 1 | 2 | 3 | 0 | 1 | 4 | 3 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 3 | 3 | 0 | 0 | 32 |
| 100+ | 2 | 0 | 14 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 29 |
| Giza | 10 | 12 | 8 | 17 | 13 | 16 | 12 | 15 | 7 | 7 | 7 | 6 | 3 | 3 | 6 | 14 | 3 | 9 | 3 | 14 | 185 |
| 5-19 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 8 | 1 | 3 | 1 | 1 | 56 |
| 20-99 | 2 | 2 | 2 | 6 | 2 | 4 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 10 | 53 |
| 100+ | 2 | 7 | 3 | 8 | 8 | 9 | 7 | 9 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 3 | 76 |
| Bani-Suef\Minya | 17 | 8 | 5 | 2 | 5 | 3 | 12 | 6 | 10 | 9 | 4 | 4 | 7 | 1 | 5 | 4 | 2 | 5 | 5 | 6 | 120 |
| 5-19 | 13 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 6 | 61 |
| 20-99 | 2 | 4 | 1 | 0 | 2 | 0 | 9 | 2 | 2 | 5 | 1 | 2 | 6 | 0 | 2 | 2 | 1 | 2 | 4 | 0 | 47 |
| 100+ | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| Fayoum | 7 | 7 | 3 | 7 | 8 | 5 | 5 | 5 | 7 | 5 | 4 | 7 | 8 | 10 | 8 | 5 | 2 | 4 | 6 | 2 | 115 |
| 5-19 | 3 | 3 | 3 | 7 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 7 | 10 | 2 | 2 | 1 | 3 | 3 | 2 | 73 |
| 20-99 | 2 | 3 | 0 | 0 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 0 | 6 | 2 | 0 | 1 | 2 | 0 | 30 |
| 100+ | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 12 |
| Assuit | 8 | 6 | 3 | 11 | 9 | 8 | 8 | 9 | 5 | 4 | 7 | 7 | 1 | 4 | 5 | 4 | 5 | 6 | 6 | 4 | 120 |
| 5-19 | 3 | 6 | 3 | 11 | 8 | 8 | 6 | 7 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 1 | 4 | 79 |
| 20-99 | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 1 | 2 | 4 | 0 | 2 | 2 | 2 | 3 | 3 | 4 | 0 | 31 |
| 100+ | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 10 |
| Souhag | 7 | 9 | 4 | 1 | 8 | 8 | 7 | 10 | 5 | 8 | 3 | 5 | 8 | 8 | 7 | 4 | 2 | 3 | 6 | 2 | 115 |
| 5-19 | 3 | 7 | 3 | 1 | 8 | 8 | 5 | 7 | 3 | 3 | 3 | 2 | 6 | 7 | 2 | 2 | 1 | 3 | 1 | 2 | 77 |
| 20-99 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 3 | 1 | 5 | 0 | 3 | 1 | 1 | 4 | 2 | 1 | 0 | 4 | 0 | 31 |
| 100+ | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 7 |
| Qena | 7 | 2 | 6 | 2 | 12 | 9 | 4 | 11 | 5 | 6 | 4 | 7 | 6 | 7 | 6 | 5 | 3 | 5 | 4 | 4 | 115 |
| 5-19 | 3 | 1 | 5 | 2 | 11 | 9 | 3 | 10 | 3 | 5 | 4 | 2 | 5 | 7 | 2 | 2 | 1 | 3 | 1 | 4 | 83 |
| 20-99 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 0 | 4 | 2 | 2 | 2 | 3 | 0 | 24 |
| 100+ | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| Aswan | 8 | 1 | 7 | 0 | 12 | 9 | 1 | 1 | 10 | 10 | 11 | 5 | 3 | 5 | 4 | 5 | 12 | 5 | 3 | 3 | 115 |
| 5-19 | 3 | 1 | 7 | 0 | 11 | 9 | 1 | 1 | 9 | 9 | 11 | 5 | 3 | 5 | 2 | 2 | 1 | 3 | 1 | 3 | 87 |
| 20-99 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 5 | 2 | 2 | 0 | 20 |
| 100+ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 0 | 8 |
| Red Sea\North Sinai\South Sinai | 5 | 4 | 1 | 1 | 5 | 3 | 1 | 0 | 6 | 3 | 3 | 3 | 4 | 1 | 4 | 5 | 9 | 7 | 3 | 2 | 70 |
| 5-19 | 3 | 2 | 1 | 1 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | 1 | 2 | 40 |
| 20-99 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 3 | 3 | 1 | 0 | 20 |
| 100+ | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 3 | 1 | 1 | 0 | 10 |
| Wadi al Jadid | 8 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 6 | 4 | 3 | 0 | 4 | 9 | 3 | 2 | 10 | 7 | 5 | 0 | 65 |
| 5-19 | 3 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 3 | 4 | 3 | 0 | 4 | 9 | 3 | 2 | 9 | 7 | 5 | 0 | 56 |
| 20-99 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 |
| 100+ | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Matrouh | 6 | 2 | 1 | 0 | 4 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 14 | 4 | 3 | 3 | 10 | 3 | 7 | 1 | 70 |
| 5-19 | 3 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 3 | 3 | 3 | 2 | 11 | 4 | 2 | 2 | 3 | 3 | 5 | 1 | 51 |


| 20-99 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 1 | 6 | 0 | 1 | 0 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100+ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 |
| Grand Total | 200 | 180 | 180 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 150 | 130 | 120 | 120 | 125 | 185 | 120 | 140 | 120 | 110 | 3000 |

Achieved interviews (based on a2, a4a and a6a)

|  | 15 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 26 | 28 | 35 | 36 | Other Manufac -turing | 45 | 51 | 52 | Hote Is | Restau rants | $\begin{aligned} & 60- \\ & 64 \end{aligned}$ | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cairo | 22 | 45 | 41 | 66 | 4 | 28 | 25 | 35 | 58 | 52 | 36 | 16 | 21 | 57 | 18 | 56 | 50 | 48 | 76 | 754 |
| 5-19 | 12 | 8 | 18 | 45 | 4 | 12 | 2 | 4 | 26 | 26 | 6 | 8 | 4 | 16 | 13 | 38 | 24 | 28 | 27 | 321 |
| 20-99 | 3 | 11 | 12 | 18 | 0 | 11 | 12 | 17 | 23 | 11 | 5 | 7 | 9 | 22 | 2 | 9 | 19 | 16 | 34 | 241 |
| 100+ | 7 | 26 | 11 | 3 | 0 | 5 | 11 | 14 | 9 | 15 | 25 | 1 | 8 | 19 | 3 | 9 | 7 | 4 | 15 | 192 |
| Alexandria | 18 | 6 | 7 | 16 | 21 | 7 | 14 | 9 | 8 | 9 | 0 | 6 | 6 | 28 | 0 | 8 | 6 | 20 | 2 | 191 |
| 5-19 | 13 | 1 | 3 | 8 | 12 | 0 | 5 | 2 | 4 | 1 | 0 | 3 | 1 | 13 | 0 | 5 | 4 | 14 | 1 | 90 |
| 20-99 | 1 | 2 | 1 | 6 | 8 | 3 | 5 | 5 | 4 | 4 | 0 | 3 | 2 | 10 | 0 | 3 | 1 | 6 | 0 | 64 |
| 100+ | 4 | 3 | 3 | 2 | 1 | 4 | 4 | 2 | 0 | 4 | 0 | 0 | 3 | 5 | 0 | 0 | 1 | 0 | 1 | 37 |
| Port Said | 4 | 6 | 14 | 0 | 3 | 0 | 3 | 1 | 4 | 3 | 0 | 0 | 5 | 1 | 2 | 0 | 2 | 0 | 12 | 60 |
| 5-19 | 1 | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 10 | 26 |
| 20-99 | 3 | 3 | 2 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 3 | 1 | 1 | 0 | 1 | 0 | 0 | 19 |
| 100+ | 0 | 1 | 10 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 15 |
| Suez | 2 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 11 | 0 | 0 | 0 | 2 | 26 |
| 5-19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 2 | 14 |
| 20-99 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 100+ | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Luxor | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 20 | 4 | 1 | 28 |
| 5-19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |  | 11 | 2 | 0 | 15 |
| 20-99 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 3 | 2 | 1 | 7 |
| 100+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 6 | 0 | 0 | 6 |
| Damietta | 21 | 8 | 6 | 3 | 2 | 2 | 6 | 8 | 1 | 14 | 0 | 32 | 8 | 0 | 6 | 0 | 0 | 0 | 0 | 117 |
| 5-19 | 10 | 6 | 4 | 3 | 1 | 1 | 5 | 2 | 1 | 7 | 0 | 15 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 67 |
| 20-99 | 9 | 1 | 2 | 0 | 1 | 1 | 1 | 3 | 0 | 7 | 0 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 100+ | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Dakahliya | 7 | 7 | 10 | 0 | 0 | 1 | 1 | 12 | 6 | 28 | 0 | 3 | 22 | 2 | 3 | 0 | 9 | 0 | 0 | 111 |
| 5-19 | 5 | 3 | 3 | 0 | 0 | 0 | 0 | 8 | 1 | 18 | 0 | 0 | 14 | 1 | 3 | 0 | 9 | 0 | 0 | 65 |
| 20-99 | 0 | 3 | 6 | 0 | 0 | 1 | 1 | 4 | 4 | 9 | 0 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 37 |
| 100+ | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Sharkiya | 21 | 30 | 16 | 7 | 0 | 17 | 26 | 15 | 20 | 16 | 0 | 18 | 10 | 3 | 4 | 0 | 0 | 2 | 2 | 207 |
| 5-19 | 9 | 6 | 2 | 1 | 0 | 3 | 10 | 4 | 9 | 4 | 0 | 7 | 3 | 2 | 2 | 0 | 0 | 2 | 0 | 64 |
| 20-99 | 6 | 9 | 4 | 2 | 0 | 8 | 12 | 5 | 7 | 7 | 0 | 6 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 72 |
| 100+ | 6 | 15 | 10 | 4 | 0 | 6 | 4 | 6 | 4 | 5 | 0 | 5 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 71 |
| Qualyubia | 15 | 20 | 15 | 2 | 8 | 13 | 6 | 14 | 8 | 10 | 0 | 15 | 9 | 0 | 8 | 3 | 0 | 0 | 4 | 150 |
| 5-19 | 6 | 4 | 4 | 1 | 6 | 7 | 2 | 3 | 1 | 3 | 0 | 5 | 2 | 0 | 2 | 3 | 0 | 0 | 2 | 51 |
| 20-99 | 3 | 10 | 6 | 0 | 2 | 4 | 2 | 6 | 4 | 3 | 0 | 5 | 2 | 0 | 4 | 0 | 0 | 0 | 2 | 53 |
| 100+ | 6 | 6 | 5 | 1 | 0 | 2 | 2 | 5 | 3 | 4 | 0 | 5 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 46 |
| Kafr-El-Sheikh\ | 30 | 48 | 32 | 1 | 9 | 9 | 7 | 1 | 19 | 4 | 0 | 5 | 62 | 2 | 2 | 0 | 4 | 0 | 4 | 239 |


| Menoufiya\Beheira |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5-19 | 13 | 14 | 8 | 0 | 6 | 1 | 1 | 1 | 3 | 1 | 0 | 3 | 20 | 1 | 0 |  | 3 | 0 | 0 | 75 |
| 20-99 | 15 | 19 | 17 | 0 | 3 | 5 | 2 | 0 | 10 | 0 | 0 | 2 | 24 | 1 | 0 |  | 1 | 0 | 3 | 102 |
| 100+ | 2 | 15 | 7 | 1 | 0 | 3 | 4 | 0 | 6 | 3 | 0 | 0 | 18 | 0 | 2 |  | 0 | 0 | 1 | 62 |
| Gharbiya | 5 | 36 | 33 | 1 | 7 | 2 | 1 | 5 | 5 | 23 | 0 | 5 | 1 | 2 | 2 | 0 | 7 | 0 | 0 | 135 |
| 5-19 | 2 | 5 | 9 | 0 | 6 | 0 | 0 | 1 | 2 | 5 | 0 | 4 | 0 | 1 | 0 | 0 | 7 | 0 | 0 | 42 |
| 20-99 | 0 | 25 | 8 | 1 | 1 | 2 | 1 | 3 | 2 | 17 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 65 |
| 100+ | 3 | 6 | 16 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Ismailia | 8 | 1 | 15 | 3 | 0 | 0 | 4 | 4 | 4 | 2 | 0 | 1 | 3 | 3 | 6 | 0 | 1 | 0 | 0 | 55 |
| 5-19 | 2 | 0 | 3 | 2 | 0 | 0 | 2 | 0 | 3 | 1 | 0 | 0 | 1 | 3 | 4 | 0 | 1 | 0 | 0 | 22 |
| 20-99 | 3 | 1 | 2 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 18 |
| 100+ | 3 | 0 | 10 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Giza | 33 | 13 | 19 | 15 | 12 | 26 | 27 | 18 | 19 | 14 | 6 | 16 | 19 | 29 | 15 | 56 | 26 | 38 | 31 | 432 |
| 5-19 | 16 | 3 | 5 | 4 | 9 | 6 | 11 | 3 | 7 | 4 | 0 | 9 | 3 | 12 | 5 | 40 | 10 | 17 | 11 | 175 |
| 20-99 | 8 | 4 | 6 | 9 | 2 | 9 | 7 | 5 | 5 | 5 | 1 | 3 | 9 | 12 | 5 | 13 | 9 | 18 | 14 | 144 |
| 100+ | 9 | 6 | 8 | 2 | 1 | 11 | 9 | 10 | 7 | 5 | 5 | 4 | 7 | 5 | 5 | 3 | 7 | 3 | 6 | 113 |
| Bani-Suef\Minya | 28 | 7 | 7 | 0 | 7 | 0 | 10 | 9 | 17 | 12 | 0 | 3 | 9 | 0 | 7 | 0 | 2 | 1 | 0 | 119 |
| 5-19 | 24 | 2 | 4 | 0 | 7 | 0 | 7 | 5 | 7 | 1 | 0 | 1 | 8 | 0 | 7 | 0 | 0 | 1 | 0 | 74 |
| 20-99 | 1 | 5 | 1 | 0 | 0 | 0 | 3 | 3 | 9 | 10 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 37 |
| 100+ | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Fayoum | 4 | 1 | 0 | 0 | 0 | 0 | 5 | 4 | 7 | 6 | 0 | 2 | 5 | 0 | 4 | 0 | 0 | 1 | 0 | 39 |
| 5-19 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 4 | 3 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 1 | 0 | 22 |
| 20-99 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 3 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 12 |
| 100+ | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Assuit | 17 | 5 | 1 | 0 | 1 | 1 | 0 | 15 | 6 | 7 | 0 | 7 | 12 | 0 | 1 | 0 | 1 | 1 | 0 | 75 |
| 5-19 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 12 | 5 | 6 | 0 | 6 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 53 |
| 20-99 | 6 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 17 |
| 100+ | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Souhag | 7 | 6 | 2 | 0 | 8 | 0 | 2 | 4 | 0 | 16 | 0 | 5 | 7 | 0 | 3 | 0 | 5 | 0 | 1 | 66 |
| 5-19 | 1 | 6 | 1 | 0 | 8 | 0 | 0 | 2 | 0 | 9 | 0 | 5 | 1 | 0 | 3 | 0 | 5 | 0 | 1 | 42 |
| 20-99 | 2 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 7 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 100+ | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Qena | 3 | 1 | 5 | 0 | 1 | 0 | 3 | 1 | 4 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 25 |
| 5-19 | 3 | 1 | 3 | 0 | 1 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 20-99 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 7 |
| 100+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Aswan | 6 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 7 | 5 | 2 | 30 |
| 5-19 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 4 | 1 | 16 |
| 20-99 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 10 |
| 100+ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 4 |
| Red Sea\North Sinai\South Sinai | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 12 | 3 | 18 |
| 5-19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 11 | 3 | 15 |
| 20-99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 100+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Wadi al Jadid | 5 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |


| $5-19$ | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $20-99$ | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |  |
| $100+$ | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\mathbf{0}$ |
| Matrouh | $\mathbf{6}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{3}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{1 1}$ |  |
| $5-19$ | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | $\mathbf{2}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |  |
| $20-99$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |  |
| $100+$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\mathbf{0}$ |  |
| Grand Total | $\mathbf{2 6 3}$ | $\mathbf{2 4 1}$ | $\mathbf{2 2 3}$ | $\mathbf{1 1 4}$ | $\mathbf{8 8}$ | $\mathbf{1 0 8}$ | $\mathbf{1 4 5}$ | $\mathbf{1 5 6}$ | $\mathbf{1 8 9}$ | $\mathbf{2 2 8}$ | $\mathbf{4 2}$ | $\mathbf{1 3 6}$ | $\mathbf{2 0 3}$ | $\mathbf{1 2 7}$ | $\mathbf{9 5}$ | $\mathbf{1 2 3}$ | $\mathbf{1 4 4}$ | $\mathbf{1 3 2}$ | $\mathbf{1 4 0}$ | $\mathbf{2 8 9 7}$ |  |

## A.2.2. Status codes

|  | TOTAL | FRESH | PANEL |
| :--- | :---: | :---: | :---: |
| Complete interviews (Total) | 2897 | 2256 | 641 |
| Complete interviews (not eligible for innovation) | 978 | 796 | 182 |
| Complete interviews (with innovation) | 1722 | 1353 | 369 |
| Complete interviews (eligible, but refused to answer innovation) | 197 | 107 | 90 |
| Incomplete interviews | 91 | 35 | 56 |
| Elegible in process | 48 | 27 | 21 |
| Refusals | 220 | 149 | 71 |
| Quota is met | 85 | 69 | 16 |
| Out of target | 451 | 302 | 149 |
| Impossible to contact | 1214 | 1141 | 73 |
| Ineligible - coop. | 4 | 2 | 2 |
| Refusal to the Screener | 944 | 536 | 408 |
| Total | 5954 | 4517 | 1437 |



## A.2.3. Survey and item non-response

The number of completed interviews per contacted establishment was 0.45 . This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which includes rejections of the screener and the main survey) and the quality of the sampling frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.33 .

## A.2.4. Local agency team involved in the study and its comments on the implementation

Local agency team involved in the survey

| Local agency 1 | Name: Pan Arab Research Center (PARC) <br> Country: Egypt <br> Year started operations: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved | 70 |
| Other staff involved |  |


| Local agency 2 | Name: American University Cairo (AUC) <br> Country: Egypt <br> Year started operations: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved | Enumerators: 30 |
| Other staff involved | Field supervisors: 6 <br> Field manager: 1 |

## Sample Frame

| Characteristic of sample frame <br> used | Variables: Name of establishment, address, activity, legal status, date of <br> establish and registration, number of employees |
| :--- | :--- |
| Source | GAFI and Bureau van Dijk's Orbis database |
| Year of publication | 2013 |
| Comments on the quality of the <br> sample frame | Some addresses were not clear with a wrong, old or not updated frame. <br> Moreover some telephone numbers were wrong or out of service. <br> Enterprises changed their activities. Some enterprises were no longer active <br> - ranging from 5 months up to 10 years either for bankruptcy, taxes, death, <br> and heritage. Most of the industrial areas in Upper Egypt governorates are <br> influenced by the unstable political conditions which influenced investment, <br> especially wood and texture |
| Year and organisation that <br> conducted the last economic <br> census | 2010, CAPMAS |
| Other sources for companies <br> statistics |  |

## Sample

Comments/problems on sectors and regions selected in the sample

|  |
| :--- |
|  |
| Comments on the response rate |
| Comments on the sample design |

Six enterprises were located in Abou-Simbel, 300 kilometers from Aswan. There are also some enterprises affiliated to the Red Sea and South Sinai governorate that are 200/300 kilometers away from the governorate. In the industrial areas, it was so difficult to move on foot because there was a very long distance ( $10 / 20 \mathrm{~km}$ ) between the enterprises. That condition lead to quitting of most of the researchers. Some researchers spent all day and didn't get one completed questionnaire. Some of the enterprises in the touristic areas were closed due to security issues and scarcity of tourists. Fieldwork did not commence in North Sinai due to security concerns.

## Fieldwork

[^4]| Country | Egypt |
| :--- | :--- |
| Number of completed interviews | PARC: 1213; AUC: 1721 |
| Problems found during fieldwork |  |
| Other observations |  |

## Questionnaires

| Problems for the understanding of <br> questions |  |
| :--- | :--- |
| Problems found in the navigability <br> of questionnaires (for example, <br> skip patterns) | Some mistakes in coding of the tablet affected skip patterns, requiring <br> callbacks. |
| Comments on questionnaire length |  |
| Suggestions or other comments on <br> the questionnaires |  |

## Quality control

| Fieldwork monitoring |  |
| :--- | :--- |
| Data checking procedures | Callbacks were made at multiple stages of the fieldwork process. Callbacks <br> were also made to correct invalid responses, to get more detail on the string <br> variables and to complete questions the respondent originally declined to <br> answer. |
| Number of respondents selected <br> for back-checking |  |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |
| Number of completed interviews <br> back-checked |  |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why | Due to a suspicious pattern of responses or ineligible business activities, 87 <br> firms were removed from the final dataset. |

## Database

| Data entry program chosen | Raw data was directly uploaded from the tablets and computer CATI system, <br> eliminating the need for data entry. |
| :--- | :--- |
| Comments on the data entry <br> program |  |
| Comments on the data cleaning | Cleaning was done to correct variable names and value labels, as well as to <br> insert the 'control variables' (a1-a6) that did not come with the data. Data <br> from call backs was merged into the dataset, as were translated string <br> variables. |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the <br> results of the survey | Significant political unrest, but did not affect fieldwork. |
| :--- | :--- |
| Relevant country events that <br> occurred during fieldwork |  |
| Other aspects |  |

## A. 3 Israel

## A.3.1. Sampling structure and implementation

The sampling frame for Israel was obtained from Dun and Bradstreet. Samples were selected separately by Dun and Bradstreet, following specifications and designs provided by the World Bank, based upon universe tabulations from the 2011 estimates from the Israeli Bureau of Statistics.

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $5.1 \%$ ( 78 out of 1537 establishments).

Regional stratification was defined in five regions. These regions are Tel Aviv, Haifa and the North, Central, Jerusalem and South. Table below shows the grouping of official administrative districts into these five regions.

| Regions (districts) | Grouping used for stratification purposes in <br> MENA ES |
| :--- | :--- |
| Tel Aviv | Tel Aviv |
| Haifa | Haifa and the North |
| North | Central |
| Central | Jerusalem |
| Jerusalem | South |
| South |  |

Sample frame

| Region | Employees | Food \& Beverages | Other <br> Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tel Aviv | 5-19 | 29 | 56 | 80 | 72 | 237 |
|  | 20-99 | 33 | 49 | 36 | 20 | 138 |
|  | 100+ | 13 | 26 | 25 | 25 | 89 |
|  | Total | 75 | 131 | 141 | 117 | 464 |
| Haifa and the North | 5-19 | 24 | 40 | 52 | 148 | 264 |
|  | 20-99 | 52 | 44 | 24 | 20 | 140 |
|  | 100+ | 27 | 24 | 21 | 20 | 92 |
|  | Total | 103 | 108 | 97 | 188 | 496 |
| Central | 5-19 | 25 | 19 | 20 | 20 | 84 |
|  | 20-99 | 25 | 20 | 20 | 20 | 85 |
|  | 100+ | 21 | 25 | 25 | 20 | 91 |
|  | Total | 71 | 64 | 65 | 60 | 260 |
| Jerusalem | 5-19 | 59 | 36 | 57 | 20 | 172 |
|  | 20-99 | 30 | 60 | 63 | 20 | 173 |
|  | 100+ | 9 | 23 | 13 | 20 | 65 |
|  | Total | 98 | 119 | 133 | 60 | 410 |
| South | 5-19 | 24 | 20 | 20 | 20 | 84 |
|  | 20-99 | 25 | 20 | 20 | 20 | 85 |
|  | 100+ | 13 | 24 | 12 | 20 | 69 |
|  | Total | 62 | 64 | 52 | 60 | 238 |
| Grand Total |  | 409 | 486 | 488 | 485 | 1868 |

Source: Dun \& Bradstreet.

## Universe estimates

| Region | Employees | Food \& Beverages | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tel Aviv | 5-19 | 99 | 1188 | 1841 | 4692 | 7820 |
|  | 20-99 | 62 | 326 | 340 | 1673 | 2401 |
|  | 100+ | 13 | 76 | 68 | 289 | 446 |
|  | Total | 174 | 1590 | 2248 | 6655 | 10667 |
| Haifa and the North | 5-19 | 243 | 1089 | 1494 | 6565 | 9391 |
|  | 20-99 | 122 | 591 | 242 | 1465 | 2420 |
|  | 100+ | 45 | 179 | 22 | 101 | 347 |
|  | Total | 410 | 1859 | 1759 | 8130 | 12158 |
| Central | 5-19 | 169 | 948 | 1745 | 4936 | 7798 |
|  | 20-99 | 104 | 496 | 416 | 1626 | 2642 |
|  | 100+ | 29 | 149 | 83 | 262 | 523 |
|  | Total | 302 | 1593 | 2245 | 6823 | 10963 |
| Jerusalem | 5-19 | 73 | 243 | 565 | 1924 | 2805 |
|  | 20-99 | 31 | 85 | 111 | 588 | 815 |
|  | 100+ | 8 | 24 | 12 | 50 | 94 |
|  | Total | 112 | 352 | 688 | 2562 | 3714 |
| South | 5-19 | 86 | 383 | 598 | 2407 | 3474 |
|  | 20-99 | 45 | 236 | 133 | 715 | 1129 |
|  | 100+ | 13 | 64 | 13 | 102 | 192 |
|  | Total | 144 | 683 | 744 | 3224 | 4795 |
| Grand Total |  | 1142 | 6077 | 7684 | 27394 | 42297 |

Source: Israeli Central Bureau of Statistics, 2011.

Original sample design

| Region | Employees |  <br> Beverages | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tel Aviv | 5-19 | 6 | 14 | 19 | 18 | 57 |
|  | 20-99 | 13 | 11 | 9 | 5 | 38 |
|  | 100+ | 9 | 5 | 5 | 5 | 25 |
|  | Total | 28 | 30 | 34 | 28 | 120 |
| Haifa and the North | 5-19 | 5 | 10 | 13 | 37 | 65 |
|  | 20-99 | 11 | 11 | 6 | 5 | 32 |
|  | 100+ | 7 | 5 | 5 | 5 | 22 |
|  | Total | 23 | 26 | 24 | 47 | 120 |
| Central | 5-19 | 5 | 5 | 5 | 5 | 20 |
|  | 20-99 | 5 | 5 | 5 | 5 | 20 |
|  | 100+ | 5 | 5 | 5 | 5 | 20 |
|  | Total | 15 | 15 | 15 | 15 | 60 |
| Jerusalem | 5-19 | 12 | 9 | 11 | 5 | 37 |
|  | 20-99 | 18 | 14 | 13 | 5 | 50 |
|  | 100+ | 8 | 11 | 9 | 5 | 33 |
|  | Total | 38 | 34 | 33 | 15 | 120 |
| South | 5-19 | 5 | 5 | 5 | 5 | 20 |
|  | 20-99 | 5 | 5 | 5 | 5 | 20 |
|  | 100+ | 5 | 5 | 5 | 5 | 20 |
|  | Total | 15 | 15 | 15 | 15 | 60 |
| Grand Total |  | 120 | 120 | 120 | 120 | 480 |

Achieved sample (based on a2, a4a and a6a)

| Region | Employees | Food \& Beverages | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tel Aviv | 5-19 | 14 | 17 | 18 | 19 | 68 |
|  | 20-99 | 11 | 12 | 10 | 3 | 36 |
|  | 100+ | 0 | 4 | 3 | 5 | 12 |
|  | Total | 25 | 33 | 31 | 27 | 116 |
| Haifa and the North | 5-19 | 8 | 11 | 14 | 37 | 70 |
|  | 20-99 | 18 | 11 | 9 | 5 | 43 |
|  | 100+ | 4 | 8 | 6 | 7 | 25 |
|  | Total | 30 | 30 | 29 | 49 | 138 |
| Central | 5-19 | 12 | 5 | 4 | 5 | 26 |
|  | 20-99 | 11 | 3 | 6 | 4 | 24 |
|  | 100+ | 5 | 6 | 6 | 8 | 25 |
|  | Total | 28 | 14 | 16 | 17 | 75 |
| Jerusalem | 5-19 | 16 | 9 | 14 | 5 | 44 |
|  | 20-99 | 5 | 15 | 14 | 3 | 37 |
|  | 100+ | 2 | 10 | 2 | 7 | 21 |
|  | Total | 23 | 34 | 30 | 15 | 102 |
| South | 5-19 | 6 | 4 | 7 | 5 | 22 |
|  | 20-99 | 5 | 5 | 5 | 5 | 20 |
|  | 100+ | 0 | 3 | 1 | 6 | 10 |
|  | Total | 11 | 12 | 13 | 16 | 52 |
| Grand Total |  | 117 | 123 | 119 | 124 | 483 |

## A.3.2. Status codes

|  | TOTAL |
| :--- | :---: |
| Complete interviews (Total) | 483 |
| Complete interviews (not eligible for innovation) | 244 |
| Complete interviews (with innovation) | 230 |
| Complete interviews (eligible, but refused to answer innovation) | 9 |
| Incomplete interviews | 0 |
| Elegible in process | 0 |
| Refusals | 138 |
| Quota is met | 41 |
| Out of target | 60 |
| Impossible to contact | 238 |
| Ineligible - coop. | 18 |
| Refusal to the Screener | 559 |
| Total | 1537 |


| $\frac{\stackrel{0}{0}}{\frac{0}{\underline{010}}}$ | 1.Elegible establishment (Correct name and address) | 592 |
| :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 4 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 21 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 45 |
|  | 16. Panel firm - now less than five employees | 0 |
|  | 5. The establishment has less than 5 permanent full time employees | 45 |
|  | 6. The firm discontinued businesses | 10 |
|  | 7. Not a business: private household | 1 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 4 |
| $\begin{aligned} & \frac{0}{0} \\ & \frac{0}{0} \\ & .5 \\ & 0 \\ & 00 \\ & 0.0 \\ & 0 \end{aligned}$ | 91. No reply (after having called in different days of the week and in different business hours) | 211 |
|  | 92. Line out of order | 1 |
|  | 93. No tone | 2 |
|  | 94. Phone number does not exist | 0 |
|  | 10. Answering machine | 8 |
|  | 11. Fax line - data line | 0 |
|  | 12. Wrong address/ moved away and could not get the new references | 16 |
|  | 13. Refuses to answer the screener | 559 |
|  | 14. In process (the establishment is being called/ is being contacted - previous to ask the screener) | 0 |
|  | 151. Out of target - outside the covered regions, firm moved abroad | 8 |
|  | 152. Out of target - firm moved abroad | 1 |
|  | 153. Impossible to find | 9 |
|  | 154. Establishment is HQ without production or sales in the location | 0 |
|  | 156. Duplicate in the sample | 0 |
|  | Total | 1537 |

## A.3.3. Survey and item non-response

The number of completed interviews per contacted establishment was 0.31 . This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which includes rejections of the screener and the main survey) and the quality of the sampling frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.45 .

## A.3.4. Local agency team involved in the study and its comments on the implementation

Local agency team involved in the survey

| Local agency | Name: Public Opinion Research of Israel (PORI) <br> Country: Israel <br> Membership of international organisation: <br> Active since: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved | Enumerators: 9 |
| Other staff involved |  |

## Sampling frame

| Characteristic of sample frame <br> used | Variables: Name of establishment, address, activity, telephone number, <br> number of employees |
| :--- | :--- |
| Source | Dun and Bradstreet |
| Year of publication | 2013 |
| Comments on the quality of the <br> sample frame | The quality of the frame was assessed at the onset of the project through <br> visits to a random subset of firms and local contractor knowledge. The <br> sample frame was not immune from the typical problems found in <br> establishment surveys: positive rates of non- eligibility, repetition, non- <br> existent units, etc. |
| Year and organisation that <br> conducted the last economic <br> census | 2011, Central Bureau of Statistics |
| Other sources for companies <br> statistics | None |

## Sample

| Comments/problems on sectors <br> and regions selected in the sample |  |
| :--- | :--- |
| Comments on the response rate |  |
| Comments on the sample design |  |

Fieldwork

| Date of fieldwork | April 2013 - March 2014, with call-backs and data finalisation lasting until <br> June 2014 |
| :--- | :--- |
| Country | Israel |
| Number of completed interviews | 483 |
| Problems found during fieldwork | Some enterprises refused to disclose financial data, requiring significant <br> number of callbacks. |
| Other observations |  |

## Questionnaires

| Problems for the understanding of <br> questions (write question number) |  |
| :--- | :--- |
| Problems found in the navigability <br> of questionnaires (for example, <br> skip patterns) | Tablets were extremely useful for navigating questionnaire due to automatic <br> implementation of skip patterns. |
| Comments on questionnaire length |  |
| Suggestions or other comments on <br> the questionnaires |  |

Quality control

| Fieldwork monitoring |  |
| :--- | :--- |
| Data checking procedures | Callbacks were made at multiple stages of the fieldwork process. PORI <br> conducted ongoing callbacks at the direction of Gallup Europe throughout <br> the fieldwork period. Callbacks were also made to correct invalid responses, <br> to get more detail on the string variables and to complete questions the <br> respondent originally declined to answer. |
| Number of respondents selected <br> for back-checking |  |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |
| Number of completed interviews <br> back-checked |  |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why |  |

## Database

| Data entry program chosen | Raw data was directly uploaded from the tablets and computer CATI system, <br> eliminating the need for data entry. |
| :--- | :--- |
| Comments on the data entry <br> program | All verifications and consistency checks (for tablet-based interviews) were <br> applied on PC-tablet applications. An error message pops up when entering <br> a wrong value and some error messages show up in red for sensitive <br> questions. |
| Comments on the data cleaning | Cleaning was done to correct variable names and value labels, as well as to <br> insert the 'control variables' (a1-a6) that did not come with the data. Data <br> from call backs was merged into the dataset, as were translated string <br> variables. |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the <br> results of the survey |  |
| :--- | :--- |
| Relevant country events that <br> occurred during fieldwork |  |
| Other aspects |  |

## A. 4 Jordan

## A.4.1. Sampling structure and implementation

Sample frames were obtained from several sources. The first was supplied by the World Bank and consisted of enterprises interviewed in a recent SME survey. The World Bank required that attempts should be made to re-interview establishments responding to the enterprise survey where they were within the selected geographical regions and met eligibility criteria. That sample is referred to as the

Panel. ${ }^{6}$ The remaining sample frames were obtained from the Amman Chamber of Industry, the Amman Chamber of Commerce, the Irbid Chamber of Industry, the Irbid Chamber of Commerce, the Zarqa Chamber of Industry, the Zarqa Chamber of Commerce, the Aqaba Chamber of Industry, the Aqaba Chamber of Commerce, the Balqa Chamber of Industry, the Balqa Chamber of Commerce, and Bureau van Dijk's Orbis database (for the validation of large-sized firms). In several categories, employee size information was not available. In these cases, the survey design was adjusted to include "no information" as a size-based stratum. For analysis and weighting purposes, these firms were considered by the virtue of their realised interviews.

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $16.7 \%$ (183 out of 2104 establishments).

Regional stratification was defined in 5 regions. These regions are Amman, Irbid, Zarqa, Aqaba and Balqa.

| Regions (governorates) | Grouping used for stratification purposes in <br> MENA ES |
| :--- | :--- |
| Amman | Amman |
| Irbid | Irbid |
| Zarqa | Zarqa |
| Aqaba | Aqaba |
| Balqa | Balqa |
| Aljun |  |
| Jarash |  |
| Madaba |  |
| Karak |  |
| Mafraq |  |
| Tafilah |  |
| Ma'an |  |

[^5]Fresh sampling frame


Sources: As noted in the text above.
Note: * Includes micro firms (with less than 5 employees) accounting for differentiation from Department of Statistics universe estimates.

## Panel sampling frame



Source: WB SME survey (Amman and Zarqa only).

Universe estimates

| Region | Employees | Manufacturing |  |  |  |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Food | Apparel | Other | Retail/Wh olesale | Other <br> Services |  |
| Amman | 5-19 | 317 | 114 | 1103 | 880 | 2388 | 4802 |
|  | 20-99 | 113 | 19 | 299 | 134 | 648 | 1213 |
|  | 100+ | 32 | 14 | 103 | 21 | 148 | 318 |
|  | Total | 462 | 147 | 1505 | 1035 | 3184 | 6333 |
| Irbid | 5-19 | 94 | 9 | 174 | 77 | 221 | 575 |
|  | 20-99 | 12 | 14 | 14 | 3 | 18 | 61 |
|  | 100+ | 0 | 15 | 3 | 2 | 3 | 23 |
|  | Total | 106 | 38 | 191 | 82 | 242 | 659 |
| Zarqa | 5-19 | 89 | 28 | 255 | 143 | 291 | 806 |
|  | 20-99 | 25 | 2 | 47 | 19 | 16 | 109 |
|  | 100+ | 15 | 11 | 20 | 0 | 0 | 46 |
|  | Total | 129 | 41 | 322 | 162 | 307 | 961 |
| Aqaba | 5-19 | 8 | 3 | 44 | 82 | 181 | 318 |
|  | 20-99 | 1 | 0 | 2 | 4 | 32 | 39 |
|  | 100+ | 0 | 0 | 4 | 0 | 9 | 13 |
|  | Total | 9 | 3 | 50 | 86 | 222 | 370 |
| Balqa | 5-19 | 35 | 2 | 43 | 26 | 51 | 157 |
|  | 20-99 | 4 | 2 | 8 | 1 | 7 | 22 |
|  | 100+ | 1 | 0 | 7 | 0 | 4 | 12 |
|  | Total | 40 | 4 | 58 | 27 | 62 | 191 |
| Grand Total |  | 746 | 233 | 2126 | 1392 | 4017 | 8514 |

Source: 2011 Establishment Census, Department of Statistics.
Note: In some cases, full counts by the ES universe tables were not available via the Department of Statistics; a simple iterative fitting algorithm was used to impute the missing dimension.

## Original sample design

| Region | Employees | Manufacturing |  |  |  |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Food | Apparel | Other | Retail/Wh olesale | Other Services |  |
| Amman | 5-19 | 10 | 10 | 24 | 22 | 20 | 86 |
|  | 20-99 | 10 | 15 | 15 | 18 | 13 | 71 |
|  | 100+ | 11 | 11 | 5 | 11 | 5 | 43 |
|  | Total | 31 | 36 | 44 | 51 | 38 | 200 |
| Irbid | 5-19 | 18 | 7 | 11 | 18 | 6 | 61 |
|  | 20-99 | 10 | 11 | 11 | 2 | 6 | 40 |
|  | 100+ | 0 | 12 | 2 | 2 | 2 | 18 |
|  | Total | 28 | 30 | 25 | 22 | 14 | 120 |
| Zarqa | 5-19 | 8 | 10 | 6 | 6 | 6 | 36 |
|  | 20-99 | 20 | 4 | 6 | 15 | 6 | 51 |
|  | 100+ | 12 | 9 | 11 | 0 | 1 | 33 |
|  | Total | 40 | 23 | 23 | 21 | 13 | 120 |
| Aqaba | 5-19 | 6 | 2 | 10 | 17 | 13 | 48 |
|  | 20-99 | 1 | 0 | 2 | 3 | 24 | 29 |
|  | 100+ | 0 | 0 | 3 | 0 | 9 | 12 |
|  | Total | 7 | 2 | 15 | 20 | 46 | 90 |
| Balqa | 5-19 | 5 | 6 | 5 | 8 | 5 | 29 |
|  | 20-99 | 7 | 2 | 12 | 2 | 5 | 28 |
|  | 100+ | 2 | 1 | 6 | 0 | 4 | 13 |
|  | Total | 14 | 8 | 23 | 11 | 14 | 70 |
| Grand Total |  | 120 | 100 | 130 | 125 | 125 | 600 |

Achieved sample (based on a2, a4a and a6b)

| Region | Employees | Manufacturing |  |  |  |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Food | Apparel | Other | Retail/Wh olesale | Other Services |  |
| Amman | 5-19 | 12 | 11 | 22 | 25 | 22 | 92 |
|  | 20-99 | 17 | 18 | 19 | 24 | 23 | 101 |
|  | 100+ | 6 | 5 | 7 | 12 | 9 | 39 |
|  | Total | 35 | 34 | 48 | 61 | 54 | 232 |
| Irbid | 5-19 | 4 | 1 | 8 | 19 | 4 | 36 |
|  | 20-99 | 15 | 6 | 13 | 3 | 7 | 44 |
|  | 100+ | 1 | 16 | 4 | 2 | 0 | 23 |
|  | Total | 20 | 23 | 25 | 24 | 11 | 103 |
| Zarqa | 5-19 | 5 | 8 | 11 | 7 | 6 | 37 |
|  | 20-99 | 16 | 2 | 9 | 10 | 4 | 41 |
|  | 100+ | 17 | 10 | 12 | 0 | 0 | 39 |
|  | Total | 38 | 20 | 32 | 17 | 10 | 117 |
| Aqaba | 5-19 | 3 | 0 | 9 | 16 | 10 | 38 |
|  | 20-99 | 3 | 0 | 4 | 3 | 18 | 28 |
|  | 100+ | 1 | 0 | 1 | 0 | 1 | 3 |
|  | Total | 7 | 0 | 14 | 19 | 29 | 69 |
| Balqa | 5-19 | 10 | 1 | 7 | 9 | 7 | 34 |
|  | 20-99 | 3 | 0 | 5 | 3 | 5 | 16 |
|  | 100+ | 1 | 0 | 1 | 0 | 1 | 2 |
|  | Total | 14 | 1 | 13 | 12 | 12 | 52 |
| Grand Total |  | 114 | 78 | 132 | 133 | 116 | 573 |

## A.4.2. Status codes

|  | TOTAL |
| :--- | :---: |
| Complete interviews (Total) | 573 |
| Complete interviews (not eligible for innovation) | 245 |
| Complete interviews (with innovation) | 324 |
| Complete interviews (eligible, but refused to answer innovation) | 4 |
| Incomplete interviews | 0 |
| Elegible in process | 0 |
| Refusals | 56 |
| Quota is met | 0 |
| Out of target | 182 |
| Impossible to contact | 1176 |
| Ineligible - coop. | 1 |
| Refusal to the Screener | 116 |
| Total | 2104 |


|  | 1.Elegible establishment (Correct name and address) | 68 |
| :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 3 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 42 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 512 |
|  | 16. Panel firm - now less than five employees | 4 |
|  | 5. The establishment has less than 5 permanent full time employees | 60 |
|  | 6. The firm discontinued businesses | 54 |
|  | 7. Not a business: private household | 18 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 50 |
|  | 91. No reply (after having called in different days of the week and in different business hours) | 390 |
|  | 92. Line out of order | 25 |
|  | 93. No tone | 5 |
|  | 94. Phone number does not exist | 75 |
|  | 10. Answering machine | 1 |
|  | 11. Fax line - data line | 3 |
|  | 12. Wrong address/ moved away and could not get the new references | 677 |
|  | 13. Refuses to answer the screener | 116 |
|  | 14. In process (the establishment is being called/ is being contacted - previous to ask the screener) | 0 |
|  | 151. Out of target - outside the covered regions, firm moved abroad | 0 |
|  | 152. Out of target - firm moved abroad | 1 |
|  | 153. Impossible to find | 0 |
|  | 154. Establishment is HQ without production or sales in the location | 0 |
|  | 156. Duplicate in the sample | 0 |
|  | Total | 2104 |

## A.4.3. Survey and item non-response

The number of completed interviews per contacted establishment was 0.60 . This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which includes rejections of the screener and the main survey) and the quality of the sample frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.21 .

## A.4.4. Local agency team involved in the study and its comments on the implementation

Local agency team involved in the survey

| Local agency | Name: Dajani Consulting <br> Country: Jordan <br> Membership of international organisation: <br> Activities since: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Interviewers involved | Enumerators: 12 |
| Other staff involved |  |

## Sampling frame

| Characteristic of sample frame <br> used |  |
| :--- | :--- |
| Source | Amman Chamber of Industry, the Amman Chamber of Commerce, the Irbid <br> Chamber of Industry, the Irbid Chamber of Commerce, the Zarqa Chamber <br> of Industry, the Zarqa Chamber of Commerce, the Aqaba Chamber of <br> Industry, the Aqaba Chamber of Commerce, the Balqa Chamber of Industry, <br> the Balqa Chamber of Commerce, and Bureau van Dijk's Orbis database (for <br> the validation of large-sized firms) |
| Year of publication | Limitations in the frame, no comprehensive source of all private sector <br> businesses. Not all values available for all companies (such as employee <br> numbers). |
| Comments on the quality of the <br> sample frame | 2011, Department of Statistics |
| Year and organisation that <br> conducted the last economic <br> census |  |

## Sample

| Comments/problems on sectors <br> and regions selected in the sample |  |
| :--- | :--- |
| Comments on the response rate |  |
| Comments on the sample design |  |

Fieldwork

| Date of fieldwork | May 2013 - January 2014, with call-backs and data finalisation lasting until <br> April 2014 |
| :--- | :--- |
| Country | Jordan |
| Number of completed interviews | 600 |
| Problems found during fieldwork | Problems with questionnaire length, limited cooperation amongst business <br> owners and managers, not everyone was willing to answer all questions <br> (especially related to their finances), putting a lot of strain on enumerators <br> to get as much information as possible. Concern over confidentiality of <br> information. |
| Other observations | Many respondents required a lot of convincing before agreeing to the survey |

## Questionnaires

Problems for the understanding of questions (write question number) Problems found in the navigability No problems with navigating questionnaire because of the tablets. of questionnaires (for example, skip patterns)
Comments on questionnaire length
Respondents found the questionnaire to be very long.

| Suggestions or other comments on <br> the questionnaires | Many open-ended questions required callbacks. |
| :--- | :--- |

## Quality control

| Fieldwork monitoring |  |
| :--- | :--- |
| Data checking procedures | Callbacks were made at multiple stages of the fieldwork process. Dajani <br> Consulting conducted ongoing callbacks at the direction of Gallup Europe <br> throughout the fieldwork period. |
| Number of respondents selected <br> for back-checking | $214(35.6 \%)$ |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |
| Number of completed interviews <br> back-checked |  |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents | Description of what was covered in <br> the back-checks |
| A standard callback questionnaire of key variables (d2, n3, I1, I2, n2, n7, I6, <br> and I8) was used to confirm the accuracy of recorded data. Callbacks were <br> also made to correct invalid responses, to get more detail on the string <br> variables and to complete questions the respondent originally declined to <br> answer. |  |
| Number of completed interviews <br> that were rejected and why | 27 cases were removed due to critically low item-level response or ineligible <br> industry. |

## Database

| Data entry program chosen | Raw data was directly uploaded from the tablets and computer CATI system, <br> eliminating the need for data entry. |
| :--- | :--- |
| Comments on the data entry <br> program | All verifications and consistency checks (for tablet-based interviews) were <br> applied on PC-tablet applications. An error message pops up when entering <br> a wrong value and some error messages show up in red for sensitive <br> questions. |
| Comments on the data cleaning | Cleaning was done to correct variable names and value labels, as well as to <br> insert the 'control variables' (a1-a6) that did not come with the data. Data <br> from call backs was merged into the dataset, as were translated string <br> variables. |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the <br> results of the survey |  |
| :--- | :--- |
| Relevant country events that <br> occurred during fieldwork |  |
| Other aspects |  |

## A. 5 Lebanon

## A.5.1. Sampling structure and implementation

The sampling frame for Lebanon was collated from multiple available sources, including chambers of commerce, by InfoPro (local consultant). For some companies, information about industry and number of employees was unavailable.

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $20.8 \%$ (454 out of 2187 establishments).

Regional stratification was defined in 6 regions. These regions are Beirut, Bekaa Valley, Mount Lebanon, Nabatieh, North Lebanon and South Lebanon.

| Regions (official) | Grouping used for stratification purposes in MENA ES |
| :--- | :--- |
| Beirut | Beirut |
| Bekaa Valley | Bekaa Valley |
| Mount Lebanon | Mount Lebanon |
| Nabatieh | Nabatieh |
| North Lebanon | North Lebanon |
| South Lebanon | South Lebanon |

## Fresh sampling frame

| Region | Employees | Food | Other Manufacturing | Retail/ Wholesale | Other Services | No info. | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beirut | Small | 56 | 158 | 535 | 385 | 0 | 1134 |
|  | Medium | 47 | 74 | 210 | 219 | 0 | 550 |
|  | Large | 9 | 20 | 38 | 45 | 0 | 112 |
|  | No info. | 50 | 74 | 290 | 261 | 0 | 675 |
|  | Total | 162 | 326 | 1073 | 910 | 0 | 2471 |
| Bekaa Valley | Small | 25 | 18 | 47 | 21 | 0 | 111 |
|  | Medium | 20 | 14 | 13 | 6 | 0 | 53 |
|  | Large | 5 | 6 | 0 | 0 | 0 | 11 |
|  | No info. | 8 | 9 | 42 | 8 | 500 | 567 |
|  | Total | 58 | 47 | 102 | 35 | 500 | 742 |
| Mount Lebanon | Small | 175 | 424 | 1009 | 497 | 0 | 2105 |
|  | Medium | 148 | 299 | 391 | 233 | 0 | 1071 |
|  | Large | 37 | 63 | 55 | 70 | 0 | 225 |
|  | No info. | 132 | 190 | 593 | 349 | 5 | 1269 |
|  | Total | 492 | 976 | 2048 | 1149 | 5 | 4670 |
| Nabatieh | Small | 3 | 1 | 1 | 4 | 0 | 9 |
|  | Medium | 2 | 2 | 0 | 0 | 0 | 4 |
|  | Large | 0 | 0 | 0 | 0 | 0 | 0 |
|  | No info. | 54 | 106 | 1101 | 8 | 98 | 1367 |
|  | Total | 59 | 109 | 1102 | 12 | 98 | 1380 |
| North Lebanon | Small | 18 | 23 | 50 | 46 | 0 | 137 |
|  | Medium | 11 | 15 | 22 | 18 | 0 | 66 |
|  | Large | 5 | 0 | 0 | 0 | 0 | 5 |
|  | No info. | 10 | 13 | 51 | 21 | 0 | 95 |
|  | Total | 44 | 51 | 123 | 85 | 0 | 303 |
| South Lebanon | Small | 10 | 14 | 39 | 18 | 0 | 81 |
|  | Medium | 5 | 7 | 11 | 7 | 0 | 30 |
|  | Large | 0 | 5 | 4 | 3 | 0 | 12 |
|  | No info. | 119 | 254 | 1972 | 34 | 222 | 2601 |
|  | Total | 134 | 280 | 2026 | 62 | 222 | 2724 |
| Grand Total |  | 949 | 1789 | 6474 | 2253 | 825 | 12290 |

Source: Collated from multiple sources by InfoPro.

Universe estimates

| Region | Employees | Food | Other <br> Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beirut | 5-19 | 85 | 161 | 923 | 530 |  |
|  | 20-99 | 17 | 32 | 184 | 106 |  |
|  | 100+ | 3 | 5 | 30 | 17 |  |
|  | Total |  |  |  |  | 2093 |
| Bekaa Valley | 5-19 | 38 | 72 | 397 | 161 |  |
|  | 20-99 | 6 | 12 | 66 | 27 |  |
|  | 100+ | 1 | 1 | 6 | 2 |  |
|  | Total |  |  |  |  | 789 |
| Mount Lebanon | 5-19 | 187 | 498 | 1733 | 887 |  |
|  | 20-99 | 34 | 91 | 318 | 163 |  |
|  | 100+ | 5 | 13 | 45 | 23 |  |
|  | Total |  |  |  |  | 3998 |
| Nabatieh | 5-19 | 16 | 25 | 110 | 54 |  |
|  | 20-99 | 2 | 4 | 17 | 8 |  |
|  | 100+ | 0 | 0 | 2 | 1 |  |
|  | Total |  |  |  |  | 240 |
| North Lebanon | 5-19 | 49 | 107 | 487 | 244 |  |
|  | 20-99 | 7 | 16 | 73 | 37 |  |
|  | 100+ | 1 | 2 | 8 | 4 |  |
|  | Total |  |  |  |  | 1035 |
| South Lebanon | 5-19 | 33 | 55 | 262 | 120 |  |
|  | 20-99 | 4 | 7 | 31 | 14 |  |
|  | 100+ | 1 | 1 | 6 | 3 |  |
|  | Total |  |  |  |  | 538 |
| Grand Total |  |  |  |  |  | 8692 |

Source: 2004 Establishment Census, Statistical Office.

Original sample design

| Region | Employees | Food | Other Manufacturing | Retail/ Wholesale | Other Services | No info. | Grand <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beirut | Small | 7 | 8 | 8 | 9 |  | 32 |
|  | Medium | 8 | 9 | 10 | 10 |  | 37 |
|  | Large | 6 | 12 | 14 | 13 |  | 45 |
|  | No info. | 4 | 4 | 4 | 4 |  | 16 |
|  | Total | 25 | 33 | 36 | 36 |  | 130 |
| Bekaa Valley | Small | 4 | 4 | 4 | 5 |  | 17 |
|  | Medium | 4 | 5 | 6 | 6 |  | 21 |
|  | Large | 5 | 6 |  |  |  | 11 |
|  | No info. | 4 | 4 | 4 | 4 | 4 | 20 |
|  | Total | 17 | 19 | 14 | 15 | 4 | 69 |
| Mount Lebanon | Small | 6 | 7 | 8 | 8 |  | 29 |
|  | Medium | 7 | 9 | 10 | 9 |  | 35 |
|  | Large | 10 | 12 | 13 | 12 |  | 47 |
|  | No info. | 4 | 4 | 4 | 4 | 3 | 19 |
|  | Total | 27 | 32 | 35 | 33 | 3 | 130 |
| Nabatieh | Small | 3 | 1 | 1 | 4 |  | 9 |
|  | Medium | 2 | 2 |  |  |  | 4 |
|  | Large |  |  |  |  |  |  |
|  | No info. | 8 | 10 | 10 | 8 | 11 | 47 |
|  | Total | 13 | 13 | 11 | 12 | 11 | 60 |
| North Lebanon | Small | 4 | 4 | 4 | 5 |  | 17 |
|  | Medium | 5 | 5 | 7 | 6 |  | 23 |
|  | Large | 5 |  |  |  |  | 5 |
|  | No info. | 4 | 4 | 4 | 4 |  | 16 |
|  | Total | 18 | 13 | 15 | 15 |  | 61 |
| South Lebanon | Small | 10 | 12 | 12 | 12 |  | 46 |
|  | Medium | 5 | 7 | 11 | 7 |  | 30 |
|  | Large |  | 5 | 4 | 3 |  | 12 |
|  | No info. | 5 | 6 | 7 | 7 | 7 | 32 |
|  | Total | 20 | 30 | 34 | 29 | 7 | 120 |
| Grand Total |  | 120 | 140 | 145 | 140 | 25 | 570 |

Achieved sample (based on a2, a4a and a6a)

| Region | Employees | Food | Other Manufacturing | Retail/ Wholesale | Other Services | No info. | Grand <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beirut | Small | 10 | 9 | 7 | 11 | 0 | 37 |
|  | Medium | 11 | 13 | 14 | 8 | 0 | 46 |
|  | Large | 1 | 5 | 5 | 8 | 0 | 19 |
|  | No info. | 7 | 4 | 1 | 4 | 0 | 16 |
|  | Total | 29 | 31 | 27 | 31 | 0 | 118 |
| Bekaa Valley | Small | 9 | 9 | 9 | 10 | 0 | 37 |
|  | Medium | 7 | 10 | 5 | 3 | 0 | 25 |
|  | Large | 1 | 3 | 0 | 0 | 0 | 4 |
|  | No info. | 3 | 5 | 4 | 1 | 5 | 18 |
|  | Total | 20 | 27 | 18 | 14 | 5 | 84 |
| Mount Lebanon | Small | 8 | 9 | 7 | 13 | 0 | 37 |
|  | Medium | 11 | 10 | 10 | 9 | 0 | 40 |
|  | Large | 11 | 15 | 8 | 12 | 0 | 46 |
|  | No info. | 3 | 6 | 1 | 4 | 2 | 16 |
|  | Total | 33 | 40 | 26 | 38 | 2 | 139 |
| Nabatieh | Small | 1 | 0 | 0 | 3 | 0 | 4 |
|  | Medium | 0 | 2 | 0 | 0 | 0 | 2 |
|  | Large | 0 | 0 | 0 | 0 | 0 | 0 |
|  | No info. | 7 | 11 | 8 | 2 | 9 | 37 |
|  | Total | 8 | 13 | 8 | 5 | 9 | 43 |
| North Lebanon | Small | 7 | 8 | 8 | 9 | 0 | 32 |
|  | Medium | 5 | 8 | 8 | 6 | 0 | 27 |
|  | Large | 4 | 0 | 0 | 0 | 0 | 4 |
|  | No info. | 2 | 5 | 5 | 3 | 0 | 15 |
|  | Total | 18 | 21 | 21 | 18 | 0 | 78 |
| South Lebanon | Small | 6 | 8 | 13 | 7 | 0 | 34 |
|  | Medium | 4 | 3 | 7 | 1 | 0 | 15 |
|  | Large | 0 | 3 | 3 | 2 | 0 | 8 |
|  | No info. | 9 | 6 | 11 | 9 | 7 | 42 |
|  | Total | 19 | 20 | 34 | 19 | 7 | 99 |
| Grand Total |  | 127 | 152 | 134 | 125 | 23 | 561 |

## A.1.2. Status codes

|  | TOTAL |
| :--- | :---: |
| Complete interviews (Total) | 562 |
| Complete interviews (not eligible for innovation) | 174 |
| Complete interviews (with innovation) | 383 |
| Complete interviews (eligible, but refused to answer innovation) | 5 |
| Incomplete interviews | 2 |
| Elegible in process | 40 |
| Refusals | 145 |
| Quota is met | 70 |
| Out of target | 446 |
| Impossible to contact | 463 |
| Ineligible - coop. | 8 |
| Refusal to the Screener | 451 |
| Total | 2187 |


|  | 1.Elegible establishment (Correct name and address) | 761 |
| :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 1 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 32 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 25 |
|  | 16. Panel firm - now less than five employees | 0 |
|  | 5. The establishment has less than 5 permanent full time employees | 296 |
|  | 6. The firm discontinued businesses | 57 |
|  | 7. Not a business: private household | 58 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 35 |
|  | 91. No reply (after having called in different days of the week and in different business hours) | 334 |
|  | 92. Line out of order | 19 |
|  | 93. No tone | 0 |
|  | 94. Phone number does not exist | 0 |
|  | 10. Answering machine | 0 |
|  | 11. Fax line - data line | 0 |
|  | 12. Wrong address/ moved away and could not get the new references | 110 |
|  | 13. Refuses to answer the screener | 451 |
|  | 14. In process (the establishment is being called/ is being contacted - previous to ask the screener) | 0 |
|  | 151. Out of target - outside the covered regions, firm moved abroad | 0 |
|  | 152. Out of target - firm moved abroad | 7 |
|  | 153. Impossible to find | 1 |
|  | 154. Establishment is HQ without production or sales in the location | 0 |
|  | 156. Duplicate in the sample | 0 |
|  | Total | 2187 |

## A.5.3. Survey and item non-response

The number of completed interviews per contacted establishment was 0.26 . This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which includes rejections of the screener and the main survey) and the quality of the sample frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.27.

## A.5.4. Local agency team involved in the study and its comments on the implementation

Local agency team involved in the survey

| Local agency | Name: InfoPro <br> Country: Lebanon <br> Membership of international organisation: <br> Activities since: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved | Enumerators: 8 |
| Other staff involved |  |

## Sampling frame

| Characteristic of sample frame <br> used | Variables: Name of establishment, address, activity, telephone number, <br> number of employees |
| :--- | :--- |
| Source | Collated from multiple available sources, including chambers of commerce, <br> by InfoPro (local consultant). |
| Year of publication | For some companies, information about industry and number of employees <br> was unavailable. |
| Comments on the quality of the <br> sample frame | 2004 Central Administration of Statistics |
| Year and organisation that <br> conducted the last economic <br> census | None |
| Other sources for companies <br> statistics |  |

## Sample

| Comments/problems on sectors <br> and regions selected in the sample | Not all companies had sector or employee size information. |
| :--- | :--- |
| Comments on the response rate |  |
| Comments on the sample design |  |

## Fieldwork

| Date of fieldwork | April 2013 - April 2014 |
| :--- | :--- |
| Country | Lebanon |
| Number of completed interviews | 561 |
| Problems found during fieldwork | Some enterprises refused to answer certain questions, requiring callbacks. |
| Other observations |  |

## Questionnaires

Problems for the understanding of questions (write question number)
Problems found in the navigability of questionnaires (for example, skip patterns)
Comments on questionnaire length
Suggestions or other comments on
the questionnaires

## Quality control

| Fieldwork monitoring |  |
| :--- | :--- |
| Data checking procedures | All verifications and consistency checks (for tablet-based interviews) were <br> applied on PC-tablet applications. An error message pops up when entering |


|  | a wrong value and some error messages show up in red for sensitive <br> questions. InfoPro conducted ongoing callbacks at the direction of Gallup <br> throughout the fieldwork period. Callbacks were also made to correct invalid <br> responses, to get more detail on the string variables and to complete <br> questions the respondent originally declined to answer. |
| :--- | :--- |
| Number of respondents selected <br> for back-checking |  |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |
| Number of completed interviews <br> back-checked |  |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why |  |

## Database

| Data entry program chosen | CAPI |
| :--- | :--- |
| Comments on the data entry <br> program |  |
| Comments on the data cleaning | Raw data was directly uploaded from the tablets and computer CATI system, <br> eliminating the need for data entry. Cleaning was done to correct variable <br> names and value labels, as well as to insert the 'control variables' (a1-a6) <br> that did not come with the data. Data from call backs was merged into the <br> dataset, as were translated string variables. For 25 of the interviews, the <br> innovation section of the interview was conducted separately; this data had <br> to be merged in as well. |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the <br> results of the survey |  |
| :--- | :--- |
| Relevant country events that <br> occurred during fieldwork |  |
| Other aspects |  |

## A. 6 Morocco

## A.6.1. Sampling structure and implementation

Sample frames were obtained from several sources. The main source was from a private listing from the Kompass database, which was supplemented by sector-specific lists complied by the local contractors due to limited coverage in Food and Garments sectors. To retain probabilistic sampling, cells in which these supplements were used were drawn only after supplements were obtained.

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies
may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $5.6 \%$ ( 135 out of 2403 establishments).

Regional stratification was defined in five regions. These regions are Grand Casablanca, Rabat-Sale-Zemmour-Zaer, North, Central and South. Table below shows the grouping of official administrative regions into these five regions. Due to restrictions in the sampling frame, disaggregated sub-regions (i.e., official regions) were used for drawing the sample.

| Regions (administrative regions) | Grouping used for stratification purposes in MENA ES |
| :---: | :---: |
| Grand Casablanca | Grand Casablanca |
| Rabat-Salé-Zemmour-Zaer | Rabat-Salé-Zemmour-Zaer |
| Gharb-Chrarda-Béni Hssen | North |
| Taza-Al Hoceima-Taounate |  |
| Tangier-Tétouan |  |
| Fès-Boulemane | Central |
| Chaouia-Ouardigha |  |
| Doukkala-Abda |  |
| Tadla-Azilal |  |
| Meknès-Tafilalet |  |
| Souss-Massa-Drâa | South |
| Marrakech-Tensift-El Haouz |  |
| Guelmim-Es Semara | Not covered |
| Laâyoune-Boujdour-Sakia El Hamra |  |
| Oriental |  |
| Oued Ed-Dahab-Lagouira |  |

Sampling frame

| Region | Employees | Food | Garments | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grand Casablanca | 5-19 | 80 | 100 | 1951 | 53 | 1763 | 3947 |
|  | 20-99 | 79 | 143 | 1178 | 26 | 926 | 2352 |
|  | 100+ | 53 | 136 | 404 | 15 | 345 | 953 |
|  | Total | 212 | 379 | 3533 | 94 | 3034 | 7252 |
| Rabat-Salé-Zemmour-Zaer | 5-19 | 11 | 4 | 196 | 14 | 224 | 449 |
|  | 20-99 | 10 | 7 | 118 | 6 | 144 | 285 |
|  | 100+ | 4 | 23 | 53 | 4 | 62 | 146 |
|  | Total | 25 | 34 | 367 | 24 | 430 | 880 |
| North | 5-19 | 10 | 4 | 101 | 2 | 132 | 249 |
|  | 20-99 | 16 | 12 | 107 | 0 | 103 | 238 |
|  | 100+ | 15 | 38 | 37 | 2 | 31 | 123 |
|  | Total | 41 | 54 | 245 | 4 | 266 | 610 |
| Central | 5-19 | 26 | 5 | 139 | 3 | 167 | 340 |
|  | 20-99 | 34 | 8 | 127 | 3 | 126 | 298 |
|  | 100+ | 20 | 37 | 55 | 0 | 44 | 156 |
|  | Total | 80 | 50 | 321 | 6 | 337 | 794 |
| South | 5-19 | 22 | 8 | 189 | 8 | 243 | 470 |
|  | 20-99 | 30 | 9 | 951 | 3 | 184 | 321 |
|  | 100+ | 25 | 6 | 21 | 0 | 90 | 142 |
|  | Total | 77 | 23 | 305 | 11 | 517 | 933 |
| Grand Total |  | 435 | 540 | 4771 | 139 | 4584 | 10469 |

[^6]Universe

| Region | Employees | Food | Garments | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grand Casablanca | 5-19 | 460 | 450 | 1951 | 802 | 3121 | 6784 |
|  | 20-99 | 185 | 269 | 1178 | 95 | 926 | 2653 |
|  | 100+ | 57 | 217 | 404 | 15 | 345 | 1038 |
|  | Total | 702 | 936 | 3533 | 912 | 4392 | 10475 |
| Rabat-Salé-Zemmour-Zaer | 5-19 | 236 | 231 | 803 | 454 | 1799 | 3523 |
|  | 20-99 | 37 | 53 | 142 | 18 | 235 | 485 |
|  | 100+ | 11 | 44 | 53 | 4 | 62 | 174 |
|  | Total | 284 | 328 | 998 | 476 | 2096 | 4182 |
| North | 5-19 | 434 | 424 | 1475 | 851 | 2903 | 6087 |
|  | 20-99 | 56 | 80 | 216 | 10 | 189 | 551 |
|  | 100+ | 18 | 69 | 71 | 3 | 31 | 192 |
|  | Total | 508 | 573 | 1762 | 864 | 3123 | 6830 |
| Central | 5-19 | 758 | 740 | 2572 | 1334 | 4263 | 9667 |
|  | 20-99 | 82 | 120 | 318 | 24 | 325 | 869 |
|  | 100+ | 23 | 79 | 84 | 2 | 50 | 238 |
|  | Total | 863 | 939 | 2974 | 1360 | 4638 | 10774 |
| South | 5-19 | 492 | 480 | 1670 | 917 | 2710 | 6269 |
|  | 20-99 | 40 | 48 | 131 | 26 | 253 | 498 |
|  | 100+ | 25 | 23 | 23 | 3 | 90 | 164 |
|  | Total | 557 | 551 | 1824 | 946 | 3053 | 9631 |
| Grand Total |  | 2914 | 3327 | 11091 | 4558 | 17302 | 39192 |

Source: Kompass 2013, HCP - Recensement Economique, 2001-2002.
Original sample design

| Region | Employees | Food | Garments | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grand Casablanca | 5-19 | 7 | 7 | 11 | 7 | 20 | 52 |
|  | 20-99 | 7 | 7 | 9 | 7 | 8 | 38 |
|  | 100+ | 6 | 5 | 6 | 8 | 5 | 30 |
|  | Total | 20 | 19 | 26 | 22 | 33 | 120 |
| Rabat-Salé-Zemmour-Zaer | 5-19 | 7 | 7 | 10 | 7 | 12 | 43 |
|  | 20-99 | 8 | 7 | 8 | 14 | 8 | 45 |
|  | 100+ | 6 | 9 | 8 | 4 | 5 | 32 |
|  | Total | 21 | 23 | 26 | 25 | 25 | 120 |
| North | 5-19 | 6 | 6 | 9 | 6 | 12 | 39 |
|  | 20-99 | 11 | 9 | 4 | 7 | 3 | 34 |
|  | 100+ | 12 | 19 | 8 | 3 | 5 | 47 |
|  | Total | 29 | 34 | 21 | 16 | 20 | 120 |
| Central | 5-19 | 10 | 10 | 13 | 11 | 14 | 58 |
|  | 20-99 | 5 | 5 | 5 | 19 | 5 | 39 |
|  | 100+ | 6 | 5 | 5 | 2 | 5 | 23 |
|  | Total | 21 | 20 | 23 | 32 | 24 | 120 |
| South | 5-19 | 4 | 4 | 10 | 4 | 11 | 33 |
|  | 20-99 | 10 | 8 | 5 | 18 | 3 | 44 |
|  | 100+ | 15 | 12 | 9 | 3 | 4 | 43 |
|  | Total | 29 | 24 | 24 | 25 | 18 | 120 |
| Grand Total |  | 120 | 120 | 120 | 120 | 120 | 600 |

Achieved sample (based on a2, a4a and a6a)

| Region | Employees | Food | Garments | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grand Casablanca | 5-19 | 11 | 10 | 12 | 6 | 18 | 57 |
|  | 20-99 | 4 | 7 | 5 | 9 | 7 | 32 |
|  | 100+ | 3 | 4 | 5 | 6 | 4 | 22 |
|  | Total | 18 | 21 | 26 | 17 | 29 | 111 |
| Rabat-Salé-Zemmour-Zaer | 5-19 | 3 | 1 | 8 | 4 | 12 | 28 |
|  | 20-99 | 1 | 2 | 9 | 14 | 8 | 34 |
|  | 100+ | 0 | 2 | 5 | 2 | 4 | 13 |
|  | Total | 4 | 5 | 22 | 20 | 24 | 75 |
| North | 5-19 | 1 | 1 | 6 | 3 | 8 | 19 |
|  | 20-99 | 6 | 1 | 3 | 3 | 2 | 15 |
|  | 100+ | 1 | 11 | 4 | 3 | 3 | 22 |
|  | Total | 8 | 13 | 13 | 9 | 13 | 56 |
| Central | 5-19 | 3 | 2 | 14 | 8 | 8 | 35 |
|  | 20-99 | 2 | 3 | 5 | 10 | 6 | 26 |
|  | 100+ | 3 | 3 | 5 | 2 | 2 | 15 |
|  | Total | 8 | 8 | 24 | 20 | 16 | 76 |
| South | 5-19 | 3 | 4 | 9 | 3 | 14 | 33 |
|  | 20-99 | 4 | 4 | 7 | 20 | 1 | 36 |
|  | 100+ | 5 | 2 | 4 | 4 | 5 | 20 |
|  | Total | 12 | 10 | 20 | 27 | 20 | 89 |
| Grand Total |  | 50 | 57 | 105 | 93 | 102 | 407 |

## A.6.2. Status codes

|  | TOTAL |
| :--- | :---: |
| Complete interviews (Total) | 407 |
| Complete interviews (not eligible for innovation) | 137 |
| Complete interviews (with innovation) | 257 |
| Complete interviews (eligible, but refused to answer innovation) | 13 |
| Incomplete interviews | 37 |
| Elegible in process | 259 |
| Refusals | 116 |
| Quota is met | 0 |
| Out of target | 89 |
| Impossible to contact | 276 |
| Ineligible - coop. | 42 |
| Refusal to the Screener | 1173 |
| Total | 2399 |


|  | 1.Elegible establishment (Correct name and address) | 707 |
| :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 5 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 39 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 68 |
|  | 16. Panel firm - now less than five employees | 0 |
|  | 5. The establishment has less than 5 permanent full time employees | 20 |
|  | 6. The firm discontinued businesses | 12 |
|  | 7. Not a business: private household | 38 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 19 |
|  | 91. No reply (after having called in different days of the week and in different business hours) | 120 |


| 92. Line out of order | 0 |
| :--- | :--- | :---: |
| 93. No tone | 0 |
| 94. Phone number does not exist | 57 |
| 10. Answering machine | 13 |
| 11. Fax line - data line | 10 |
| 12. Wrong address/ moved away and could not get the new <br> references | 76 |
| 13. Refuses to answer the screener <br> 14. In process (the establishment is being called/ is being <br> contacted - previous to ask the screener) | 1173 |
| 151. Out of target - outside the covered regions, firm moved <br> abroad | 0 |
| 152. Out of target - firm moved abroad | 14 |
| 153. Impossible to find | 0 |
| 154. Establishment is HQ without production or sales in the <br> location | 4 |
| 156. Duplicate in the sample | 1 |
| Total | 2375 |

## A.6.3. Survey and item non-response

The number of completed interviews per contacted establishment was 0.17. This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which includes rejections of the screener and the main survey) and the quality of the sample frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.54 .

## A.6.4. Local agency team involved in the study and its comments on the implementation

## Local agency team involved in the survey

| Local agency 1 | Name: DSM <br> Country: Morocco <br> Membership of international organisation: <br> Activities since: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved |  |
| Other staff involved |  |


| Local agency 2 | Name: LMS-CSA <br> Country: Morocco <br> Membership of international organisation: <br> Activities since: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators ivvolved |  |
| Other staff involved |  |

## Sampling frame

| Characteristic of sample frame <br> used | Variables: Name of establishment, address, activity, legal status, date of <br> establish and registration, number of employees |
| :--- | :--- |
| Source | Kompass and sector-specific lists complied by the local contractors due to <br> limited coverage in Food and Garments sectors. |
| Year of publication |  |
| Comments on the quality of the <br> sample frame |  |


| Year and organisation that <br> conducted the last economic <br> census | 2001-2002 HCP Recensement Economique |
| :--- | :--- |
| Other sources for companies <br> statistics |  |

## Sample

| Comments/problems on sectors <br> and regions selected in the sample |  |
| :--- | :--- |
| Comments on the response rate |  |
| Comments on the sample design |  |

## Fieldwork

| Date of fieldwork | May 2013 - August 2014 (DSM); September 2014 - December 2014 (LMS- <br> CSA), with additional call-backs and data finalisation lasting until March <br> 2015. |
| :--- | :--- |
| Country | Morocco |
| Number of completed interviews | 411 (348 DSM, 63 LMS-CSA) |
| Problems found during fieldwork |  |
| Other observations |  |

## Questionnaires

| Problems for the understanding of <br> questions (write question number) |  |
| :--- | :--- |
| Problems found in the navigability <br> of questionnaires (for example, <br> skip patterns) | None. |
| Comments on questionnaire length |  |
| Suggestions or other comments on <br> the questionnaires |  |

## Quality control

| Fieldwork monitoring |  |
| :--- | :--- |
| Data checking procedures | All verifications and consistency checks (for tablet-based interviews) were <br> applied on PC-tablet applications. An error message pops up when entering <br> a wrong value and some error messages show up in red for sensitive <br> questions. DMS and LMS-CSA conducted ongoing callbacks at the direction <br> of Gallup throughout the fieldwork period. Callbacks were also made to <br> correct invalid responses, to get more detail on the string variables and to <br> complete questions the respondent originally declined to answer. |
| Number of respondents selected <br> for back-checking |  |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |
| Number of completed interviews <br> back-checked |  |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why |  |

Database

| Data entry program chosen | Raw data from DSM was directly uploaded from the tablets and computer <br> CATI system, eliminating the need for data entry. LMS-CSA entered the data <br> by hand. |
| :--- | :--- |
| Comments on the data entry <br> program |  |
| Comments on the data cleaning |  |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the <br> results of the survey |  |
| :--- | :--- |
| Relevant country events that <br> occurred during fieldwork |  |
| Other aspects |  |

## A. 7 Tunisia

## A.7.1. Sampling structure and implementation

Two sampling frames were used. The first was the Guide Economique de la Tunisie, 2013, which did not include firm size information based on the number of employees and was used for small and medium strata. The second was Bureau van Dijk's Orbis database, which was considered to have a full representation of large firms and was thus used for large stratum. Duplicate entries were removed, with preference for the sampling frame with available size information.

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $8.4 \%$ ( 574 out of 6807 establishments).

Regional stratification was defined in 5 regions. These regions are Tunis, Sfax, Northeast, South Coast/West and Interior. The table below shows how the governorates were grouped into these five regions.

| Governorate | Official statistical region | Grouping used for stratification purposes in MENA ES |
| :---: | :---: | :---: |
| Tunis | North East | Tunis |
| Ariana |  | Northeast |
| Manouba |  |  |
| Ben Arous |  |  |
| Nabeul |  |  |
| Bizerte |  |  |
| Sfax | Centre East | Sfax |
| Sousse |  | South Coast/West |
| Monastir |  |  |
| Mahdia |  |  |
| Gabès | South East |  |
| Medenine |  |  |
| Tataouine |  | Interior |
| Gafsa | South West |  |
| Kebili |  |  |
| Tozeur |  |  |
| Kairouan | Centre West |  |
| Kasserine |  |  |
| Sidi Bouzid | North West |  |
| Béja |  |  |
| Jendouba |  |  |
| Le Kef |  |  |
| Siliana |  |  |
| Zaghouan | North East |  |

## Sampling frame

Guide Economique 2013 (small and medium, no size category distinction)

| Region | Food | Garments | Other <br> Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | :--- | ---: | ---: | ---: |
| Tunis | 146 | 127 | 1139 | 550 | 1472 | 3434 |
| Sfax | 49 | 103 | 422 | 146 | 293 | 1013 |
| Northeast | 226 | 307 | 1363 | 346 | 1145 | 3387 |
| South Coast/West | 76 | 247 | 576 | 188 | 765 | 1852 |
| Interior | 39 | 21 | 123 | 39 | 232 | 454 |
| Grand Total | $\mathbf{5 3 6}$ | $\mathbf{8 0 5}$ | $\mathbf{3 6 2 3}$ | $\mathbf{1 2 6 9}$ | $\mathbf{3 9 0 7}$ | $\mathbf{1 0 1 4 0}$ |

Source: Guide Economique 2013.

## Bureau van Dijk's Orbis (large)

| Region | Food | Garments | Other <br> Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | :--- | ---: | ---: | ---: |
| Tunis | 18 | 5 | 34 | 3 | 46 | 106 |
| Sfax | 4 | 3 | 24 |  | 12 | 43 |
| Northeast | 16 | 27 | 132 | 3 | 44 | 222 |
| South Coast/West | 9 | 33 | 38 |  | 9 | 89 |
| Interior | 3 | 8 | 24 |  | 4 | 39 |
| Grand Total | $\mathbf{5 0}$ | $\mathbf{7 6}$ | $\mathbf{2 5 2}$ | $\mathbf{6}$ | $\mathbf{1 1 5}$ | $\mathbf{4 9 9}$ |

Source: Bureau van Dijk's Orbis, 2013.

Combined sampling frame

| Region | Employees | Food | Garments | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tunis | SME (5-99) | 146 | 127 | 1139 | 550 | 1472 | 3434 |
|  | Large (100+) | 18 | 5 | 34 | 3 | 46 | 106 |
|  | Total | 164 | 132 | 1173 | 553 | 1518 | 3540 |
| Sfax | SME (5-99) | 49 | 103 | 422 | 146 | 293 | 1013 |
|  | Large (100+) | 4 | 3 | 24 | 0 | 12 | 43 |
|  | Total | 53 | 106 | 446 | 146 | 305 | 1056 |
| Northeast | SME (5-99) | 226 | 307 | 1363 | 346 | 1145 | 3387 |
|  | Large (100+) | 16 | 27 | 132 | 3 | 44 | 222 |
|  | Total | 242 | 334 | 1495 | 349 | 1189 | 3609 |
| South Coast/West | SME (5-99) | 76 | 247 | 576 | 188 | 765 | 1852 |
|  | Large (100+) | 9 | 33 | 38 | 0 | 9 | 89 |
|  | Total | 85 | 280 | 614 | 188 | 774 | 1941 |
| Interior | SME (5-99) | 39 | 21 | 123 | 39 | 232 | 454 |
|  | Large (100+) | 3 | 8 | 24 | 0 | 4 | 39 |
|  | Total | 42 | 29 | 147 | 39 | 236 | 493 |
| Grand Total |  | 586 | 881 | 3875 | 1275 | 4022 | 10639 |

Universe

| Region | Employees | Food | Garments | Other <br> Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tunis | 5-19 | 224 | 71 | 424 | 394 | 1553 | 2666 |
|  | 20-99 | 53 | 54 | 218 | 78 | 467 | 870 |
|  | +100 | 30 | 23 | 72 | 13 | 149 | 287 |
|  | Total | 307 | 148 | 714 | 485 | 2169 | 3823 |
| Sfax | 5-19 | 234 | 99 | 613 | 162 | 711 | 1819 |
|  | 20-99 | 49 | 89 | 235 | 27 | 158 | 558 |
|  | +100 | 14 | 27 | 42 | 2 | 30 | 115 |
|  | Total | 297 | 215 | 890 | 191 | 899 | 2492 |
| Northeast | 5-19 | 500 | 147 | 926 | 281 | 1686 | 3540 |
|  | 20-99 | 81 | 251 | 600 | 22 | 438 | 1392 |
|  | +100 | 37 | 153 | 267 | 8 | 128 | 593 |
|  | Total | 618 | 551 | 1793 | 311 | 2252 | 5525 |
| South Coast/West | 5-19 | 360 | 237 | 557 | 208 | 1260 | 2622 |
|  | 20-99 | 37 | 335 | 332 | 7 | 258 | 969 |
|  | +100 | 15 | 172 | 129 | 3 | 82 | 401 |
|  | Total | 412 | 744 | 1018 | 218 | 1600 | 3992 |
| Interior | 5-19 | 319 | 34 | 136 | 75 | 659 | 1223 |
|  | 20-99 | 22 | 66 | 117 | 12 | 94 | 311 |
|  | +100 | 9 | 23 | 60 | 2 | 12 | 106 |
|  | Total | 350 | 123 | 313 | 89 | 765 | 1640 |
| Grand Total |  | 1984 | 1781 | 4728 | 1294 | 7685 | 17472 |

Source : Institut National de la Statistique Tunisie.
Note: Adjustments using iterative proportional fitting were used in certain cells. Further adjustments were made in some cases to conform with the available sample frame.

Original sample design

| Region | Employees | Food | Garments | Other <br> Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tunis | Small | 5 | 5 | 6 | 15 | 20 | 51 |
|  | Medium | 7 | 5 | 7 | 13 | 5 | 37 |
|  | Large | 9 | 6 | 5 | 7 | 5 | 32 |
|  | Total | 21 | 16 | 18 | 35 | 30 | 120 |
| Sfax | Small | 8 | 5 | 5 | 20 | 5 | 43 |
|  | Medium | 10 | 9 | 11 | 12 | 5 | 47 |
|  | Large | 7 | 9 | 7 | 1 | 6 | 30 |
|  | Total | 25 | 23 | 23 | 33 | 16 | 120 |
| Northeast | Small | 9 | 5 | 18 | 6 | 20 | 58 |
|  | Medium | 10 | 5 | 5 | 11 | 5 | 36 |
|  | Large | 5 | 5 | 7 | 4 | 5 | 26 |
|  | Total | 24 | 15 | 30 | 21 | 30 | 120 |
| South Coast/West | Small | 6 | 5 | 9 | 6 | 19 | 45 |
|  | Medium | 5 | 12 | 9 | 4 | 5 | 35 |
|  | Large | 8 | 20 | 5 | 2 | 5 | 40 |
|  | Total | 19 | 37 | 23 | 12 | 29 | 120 |
| Interior | Small | 15 | 5 | 5 | 12 | 6 | 43 |
|  | Medium | 11 | 13 | 10 | 6 | 5 | 45 |
|  | Large | 5 | 11 | 11 | 1 | 4 | 32 |
|  | Total | 31 | 29 | 26 | 19 | 15 | 120 |
| Grand Total |  | 120 | 120 | 120 | 120 | 120 | 600 |

Achieved sample (based on a2, a4a and a6b)

| Region | Employees | Food | Garments | Other Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tunis | 5-19 | 0 | 5 | 7 | 15 | 19 | 46 |
|  | 20-99 | 15 | 4 | 7 | 17 | 8 | 51 |
|  | +100 | 6 | 2 | 8 | 7 | 5 | 28 |
|  | Total | 21 | 11 | 22 | 39 | 32 | 125 |
| Sfax | 5-19 | 3 | 2 | 7 | 17 | 13 | 42 |
|  | 20-99 | 12 | 15 | 12 | 13 | 12 | 64 |
|  | +100 | 3 | 3 | 7 | 2 | 5 | 20 |
|  | Total | 18 | 20 | 26 | 32 | 30 | 126 |
| Northeast | 5-19 | 9 | 5 | 20 | 7 | 22 | 63 |
|  | 20-99 | 18 | 10 | 7 | 7 | 6 | 48 |
|  | +100 | 12 | 12 | 7 | 2 | 9 | 42 |
|  | Total | 39 | 27 | 34 | 16 | 37 | 153 |
| South | 5-19 | 3 | 5 | 9 | 6 | 26 | 49 |
| Coast/West | 20-99 | 11 | 25 | 9 | 6 | 11 | 62 |
|  |  | 5 | 16 | 6 | 2 | 5 | 34 |
|  | Total | 19 | 46 | 24 | 14 | 42 | 145 |
| Interior | 5-19 | 1 | 0 | 3 | 3 | 6 | 13 |
|  | 20-99 | 0 | 0 | 10 | 3 | 5 | 18 |
|  | +100 | 2 | 1 | 4 | 1 | 4 | 12 |
|  | Total | 3 | 1 | 17 | 7 | 15 | 43 |
| Grand Total |  | 100 | 105 | 123 | 108 | 156 | 592 |

## A.7.3. Status codes

|  | TOTAL |
| :--- | :---: |
| Complete interviews (Total) | 594 |
| Complete interviews (not eligible for innovation) | 161 |
| Complete interviews (with innovation) | 433 |
| Complete interviews (eligible, but refused to answer innovation) | 0 |
| Incomplete interviews | 30 |
| Elegible in process | 83 |
| Refusals | 259 |
| Quota is met | 1816 |
| Out of target | 574 |
| Impossible to contact | 1991 |
| Ineligible - coop. | 0 |
| Refusal to the Screener | 1460 |
| Total | 6807 |


|  | 1.Elegible establishment (Correct name and address) | 2522 |
| :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 24 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 107 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 128 |
|  | 16. Panel firm - now less than five employees | 0 |
|  | 5. The establishment has less than 5 permanent full time employees | 262 |
|  | 6. The firm discontinued businesses | 117 |
|  | 7. Not a business: private household | 162 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 33 |
| $\begin{aligned} & \frac{0}{0} \\ & \frac{0}{0} \\ & . \frac{1}{0} \\ & 0 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | 91. No reply (after having called in different days of the week and in different business hours) | 1211 |
|  | 92. Line out of order | 352 |
|  | 93. No tone | 14 |
|  | 94. Phone number does not exist | 0 |
|  | 10. Answering machine | 0 |
|  | 11. Fax line - data line | 18 |
|  | 12. Wrong address/ moved away and could not get the new references | 396 |
|  | 13. Refuses to answer the screener | 1460 |
|  | 14. In process (the establishment is being called//is being contacted - previous to ask the screener) | 100 |
|  | 151. Out of target - outside the covered regions, firm moved abroad | 0 |
|  | 152. Out of target - firm moved abroad | 0 |
|  | 153. Impossible to find | 0 |
|  | 154. Establishment is HQ without production or sales in the location | 0 |
|  | 156. Duplicate in the sample | 0 |
|  | Total | 6906 |

## A.7.4. Survey and item non-response

The number of completed interviews per contacted establishment was 0.09 . This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which includes rejections of the screener and the main survey) and the quality of the sample frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.25 .

## A.7.5. Local agency team involved in the study and its comments on the implementation

## Local agency team involved in the survey

| Local agency | Name: EMRHOD <br> Country: Tunisia <br> Membership of international organisation: <br> Activities since: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved | Enumerators: |
| Other staff involved |  |

## Sampling frame

| Characteristic of sample frame <br> used | Variables: Name of establishment, address, activity, legal status, date of <br> establish and registration, number of employees |
| :--- | :--- |
| Source | Guide Economique de la Tunisie (Institue for National Statistics) and Bureau <br> van Dijk's Orbis database |
| Year of publication | 2013 |
| Comments on the quality of the <br> sample frame | Guide Economique de la Tunisie did not include firm size information based <br> on the number of employees and was used for small and medium strata. <br> Bureau van Dijk's Orbis database was considered to have a full <br> representation of large firms and was used for large stratum. Duplicate <br> entries were removed, with preference for the sampling frame with <br> available size information. |
| Year and organisation that <br> conducted the last economic <br> census | 2011, National Instite of Statistics (INS) |

## Sample

| Comments/problems on sectors <br> and regions selected in the sample |  |
| :--- | :--- |
| Comments on the response rate |  |
| Comments on the sample design |  |

Fieldwork

| Date of fieldwork | September 2013 - November 2014, with additional call-backs and data <br> finalisation lasting until March 2015. |
| :--- | :--- |
| Country | Tunisia |
| Number of completed interviews | 594 |
| Problems found during fieldwork |  |
| Other observations |  |

## Questionnaires

| Problems for the understanding of <br> questions (write question number) |  |
| :--- | :--- |
| Problems found in the navigability <br> of questionnaires (for example, <br> skip patterns) | None. |
| Comments on questionnaire length |  |
| Suggestions or other comments on <br> the questionnaires |  |

## Quality control

Fieldwork monitoring

| Data checking procedures | All verifications and consistency checks (for tablet-based interviews) were <br> applied on PC-tablet applications. An error message pops up when entering <br> a wrong value and some error messages show up in red for sensitive <br> questions. EMRHOD conducted ongoing callbacks at the direction of Gallup <br> throughout the fieldwork period. Callbacks were also made to correct invalid <br> responses, to get more detail on the string variables and to complete <br> questions the respondent originally declined to answer. |
| :--- | :--- |
| Number of respondents selected <br> for back-checking |  |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |
| Number of completed interviews <br> back-checked |  |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why |  |

Database

| Data entry program chosen | CAPI |
| :--- | :--- |
| Comments on the data entry <br> program | Raw data was directly uploaded from the tablets and computer CATI system, <br> eliminating the need for data entry. |
| Comments on the data cleaning | Cleaning was done to correct variable names and value labels, as well as to <br> insert the 'control variables' (a1-a6) that did not come with the data. Data <br> from call backs was merged into the dataset, as were translated string <br> variables. |

## Country situation

General aspects of economic, political or social situation of the country that could affect the results of the survey
Relevant country events that occurred during fieldwork Other aspects

## A. 8 West Bank and Gaza

## A.8.1. Sampling structure and implementation

The first sampling frame was supplied by the World Bank and consisted of enterprises interviewed in the World Bank's 2006 Enterprise Survey, with available contacts matched and verified against the Palestinian Central Bureau of Statistics' (PCBS) establishment census. The World Bank required that attempts should be made to re-interview establishments responding to the 2006 ES survey where they were within the selected geographical regions and met eligibility criteria. That sample is referred to as the Panel. The second frame for West Bank and Gaza was the PCBS Establishment Census 2012.

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments
were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was 3.9\% (40 out of 572 establishments).

Regional stratification was defined in two regions. These regions are West Bank; and Gaza.

## Sampling frame

Fresh

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| West Bank | $5-19$ | 2242 | 1109 | 1259 | 4180 |
|  | $20-99$ | 200 | 34 | 97 | 308 |
|  | $100+$ | 21 | 2 | 9 | 29 |
|  | Total | $\mathbf{2 4 6 3}$ | $\mathbf{1 1 4 5}$ | $\mathbf{1 3 6 5}$ | $\mathbf{4 9 7 3}$ |
|  | $5-19$ | 531 | 518 | 565 | 1614 |
|  | $20-99$ | 29 | 3 | 33 | 65 |
|  | $100+$ | 3 | 0 | 1 | 4 |
|  | Total | $\mathbf{5 6 3}$ | $\mathbf{5 2 1}$ | $\mathbf{5 9 9}$ | $\mathbf{1 6 8 3}$ |
| Grand Total |  | $\mathbf{3 0 2 6}$ | $\mathbf{1 6 6 6}$ | $\mathbf{1 9 6 4}$ | $\mathbf{6 6 5 6}$ |

Source: PCBS Establishment Census 2012.

Panel

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| West Bank | $5-19$ | 34 | 0 | 11 | 45 |
|  | $20-99$ | 12 | 0 | 8 | 20 |
|  | $100+$ | 9 | 0 | 1 | 10 |
|  | Total | $\mathbf{5 5}$ | $\mathbf{0}$ | $\mathbf{2 0}$ | $\mathbf{7 5}$ |
| Gaza | $5-19$ | 5 | 0 | 4 | 9 |
|  | $20-99$ | 22 | 0 | 3 | 25 |
|  | $100+$ | 7 | 0 | 0 | $\mathbf{7}$ |
|  | Total | $\mathbf{3 4}$ | $\mathbf{0}$ | $\mathbf{7}$ | $\mathbf{4 1}$ |
|  |  | $\mathbf{8 9}$ | $\mathbf{0}$ | $\mathbf{2 7}$ | $\mathbf{1 1 6}$ |

Source: WB 2006 Enterprise Survey.
Note: Available contacts were matched and verified against PCBS Establishment Census. Full numbers can be found below.

## Universe

Fresh

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| West Bank | $5-19$ | 2242 | 1109 | 1259 | 4180 |
|  | $20-99$ | 200 | 34 | 97 | 308 |
|  | $100+$ | 21 | 2 | 9 | 29 |
|  | Total | $\mathbf{2 4 6 3}$ | $\mathbf{1 1 4 5}$ | $\mathbf{1 3 6 5}$ | $\mathbf{4 9 7 3}$ |
| Gaza | $5-19$ | 531 | 518 | 565 | 1614 |
|  | $20-99$ | 29 | 3 | 33 | 65 |
|  | $100+$ | 3 | 0 | 1 | 4 |
|  | Total | $\mathbf{5 6 3}$ | $\mathbf{5 2 1}$ | $\mathbf{5 9 9}$ | $\mathbf{1 6 8 3}$ |
|  |  | $\mathbf{3 0 2 6}$ | $\mathbf{1 6 6 6}$ | $\mathbf{1 9 6 4}$ | $\mathbf{6 6 5 6}$ |

Source: PCBS Establishment Census 2012.

Panel

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| West Bank | $5-19$ | 104 | 0 | 25 | 129 |
|  | $20-99$ | 67 | 0 | 14 | 81 |
|  | $100+$ | 14 | 0 | 4 | 18 |
|  | Total | $\mathbf{1 8 4}$ | $\mathbf{0}$ | $\mathbf{4 3}$ | $\mathbf{2 2 8}$ |
| Gaza | $5-19$ | 97 | 0 | 26 | 123 |
|  | $20-99$ | 37 | 0 | 7 | 44 |
|  | $100+$ | 6 | 0 | 0 | 6 |
|  | Total | $\mathbf{1 4 0}$ | $\mathbf{0}$ | $\mathbf{3 3}$ | $\mathbf{1 7 3}$ |
| Grand Total |  | $\mathbf{3 2 5}$ | $\mathbf{0}$ | $\mathbf{7 6}$ | $\mathbf{4 0 1}$ |

Source: WB 2006 Enterprise Survey.

## Original sample design

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| West Bank | $5-19$ | 36 | 54 | 40 | 130 |
|  | $20-99$ | 19 | 34 | 29 | 82 |
|  | $100+$ | 17 | 2 | 9 | 28 |
|  | Total | $\mathbf{7 2}$ | $\mathbf{9 0}$ | $\mathbf{7 8}$ | $\mathbf{2 4 0}$ |
| Gaza | $5-19$ | 10 | 27 | 8 | 45 |
|  | $20-99$ | 32 | 3 | 33 | 68 |
|  | $100+$ | 6 | 0 | 1 | 7 |
| Grand Total | Total | $\mathbf{4 8}$ | $\mathbf{3 0}$ | $\mathbf{4 2}$ | $\mathbf{1 2 0}$ |
|  |  | $\mathbf{1 2 0}$ | $\mathbf{1 2 0}$ | $\mathbf{1 2 0}$ | $\mathbf{3 6 0}$ |

Achieved sample (based on a2, a4a and a6a)

| Region | Employees | Manufacturing | Retail | Other <br> Services | Grand Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| West Bank | $5-19$ | 54 | 76 | 60 | 190 |
|  | $20-99$ | 16 | 19 | 43 | 78 |
|  | $100+$ | 16 | 6 | 5 | 27 |
|  | Total | $\mathbf{8 6}$ | $\mathbf{1 0 1}$ | $\mathbf{1 0 8}$ | $\mathbf{2 9 5}$ |
| Gaza | $5-19$ | 15 | 32 | 23 | 70 |
|  | $20-99$ | 31 | 6 | 24 | 61 |
|  | $100+$ | 3 | 0 | 5 | 8 |
|  | Total | $\mathbf{4 9}$ | $\mathbf{3 8}$ | $\mathbf{5 2}$ | $\mathbf{1 3 9}$ |
| Grand Total |  | $\mathbf{1 3 5}$ | $\mathbf{1 3 9}$ | $\mathbf{1 6 0}$ | $\mathbf{4 3 4}$ |

## A.8.2. Status codes

|  | TOTAL |
| :--- | :---: |
| Complete interviews (Total) | 435 |
| Complete interviews (not eligible for innovation) | 250 |
| Complete interviews (with innovation) | 177 |
| Complete interviews (eligible, but refused to answer innovation) | 8 |
| Incomplete interviews | 8 |
| Elegible in process | 0 |
| Refusals | 38 |
| Quota is met | 1 |
| Out of target | 40 |
| Impossible to contact | 8 |
| Ineligible - coop. | 0 |
| Refusal to the Screener | 42 |
| Total | 572 |


|  | 1.Elegible establishment (Correct name and address) | 482 |
| :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 0 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 0 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 0 |
|  | 16. Panel firm - now less than five employees | 0 |
|  | 5. The establishment has less than 5 permanent full time employees | 16 |
|  | 6. The firm discontinued businesses | 17 |
|  | 7. Not a business: private household | 1 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 6 |
| $\begin{aligned} & \frac{0}{0} \\ & \stackrel{0}{n} \\ & \stackrel{\rightharpoonup}{n} \\ & \stackrel{0}{0} \\ & \frac{5}{5} \end{aligned}$ | 91. No reply (after having called in different days of the week and in different business hours) | 0 |
|  | 92. Line out of order | 0 |
|  | 93. No tone | 0 |
|  | 94. Phone number does not exist | 0 |
|  | 10. Answering machine | 0 |
|  | 11. Fax line - data line | 0 |
|  | 12. Wrong address/ moved away and could not get the new references | 8 |
|  | 13. Refuses to answer the screener | 42 |
|  | 14. In process (the establishment is being called/ is being contacted - previous to ask the screener) | 6 |
|  | 151. Out of target - outside the covered regions, firm moved abroad | 0 |
|  | 152. Out of target - firm moved abroad | 0 |
|  | 153. Impossible to find | 0 |
|  | 154. Establishment is HQ without production or sales in the location | 0 |
|  | 156. Duplicate in the sample | 0 |
|  | Total | 578 |

## A.8.3. Survey and item non-response

The number of completed interviews per contacted establishment was 0.70 . This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which includes rejections of the screener and the main survey) and the quality of the sampling frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.19.

## A.8.4. Local agency team involved in the study and its comments on the implementation

Local agency team involved in the survey

| Local agency | Palestinian Central Bureau of Statistics (PCBS) |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved | Enumerators: 16 - West Bank, 9 - Gaza strip |
| Other staff involved | Fieldwork coordinators: 2 <br> Editing: $\sim 3$ <br> Data entry: $\sim 1$ |

## Sampling frame

| Characteristic of sample frame <br> used | Variables: Name of establishment, address, activity (ISIC Rev. 4 converted to <br> $3.1)$, telephone number, number of employees |
| :--- | :--- |
| Source | Palestinian Central Bureau of Statistics Establishment Census |
| Year of publication | 2012 |
| Comments on the quality of the <br> sample frame | Very good quality as source was the most recent establishment census, <br> which was finalised in 2013 (dated 2012) |
| Year and organisation that <br> conducted the last economic <br> census | 2012, Palestinian Central Bureau of Statistics |
| Other sources for companies <br> statistics | None |

## Mode of implementation

Use of CAPI/CATI technology

All interviews were administered face-to-face by enumerators.
A portion of the interviews (those in West Bank) were conducted using 12 electronic tablet devices (CAPI). In data collection phase, IT coordinator(s) were available firsthand to implement updates of the application on PCTablets and data entry application.

All verifications and consistency checks (for tablet-based interviews) were applied on PC-tablet applications. An error message pops up when entering a wrong value and some error messages show up in red for sensitive questions.

Project coordinator in PCBS and committee members as well, tested the CAPI application by entering pilot questionnaires.

In general, PC-Tablets were friendly user and easy to be familiar with. The remaining portion of the survey sample was completed using paper questionnaires.

The questionnaire contains Main Questionnaire and Innovation ones, for both Manufacturing and Services Activities. PCBS staff redesigned paper Questionnaire to be 30 papers out of 100 papers. In order to be compatible and friendly user for Gaza team, PCBS staff and interviewers as well, and to make it easier to be used in training, and to increase response. In addition to the main body of the questionnaire, an 'innovation module' was administered to selected, eligible establishments.

## Sample

Comments/problems on sectors and regions selected in the sample

## Sample size:

The sample size is estimated from the World Bank to be about 360

|  | completed questionnaires. Moreover, PCBS added a random sample to <br> compensate the non-response enterprise, so the total sample size after the <br> addition is 857 projects. |
| :--- | :--- |
| Comments on the response rate | Sample Design Strata: <br> Besides, projects classification enterprise, there was another classification <br> according to the region and the economical activity (ISIC2), this classification <br> improves the representation of the sample. |
| Comments on the sample design | As Gallup do need 360 completed interviews of required enterprises, and as <br> high number of non-response and in-complete is expected, additional <br> samples were prepared and uploaded more than once. |
| Sample design strata: <br> Beside projects classification enterprise, there was another classification <br> according to the region and the economical activity (ISIC 2-digit), this <br> classification improves the representation of the sample. |  |

## Fieldwork

| Date of fieldwork | June - August 2013, with additional call-backs and data finalisation lasting <br> until September 2013. |
| :--- | :--- |
| Economy | West Bank and Gaza |
| Number of completed interviews | 434 .Long period of interview since the questionnaire is long; entrepreneurs <br> are used to PCBS questionnaires that do not exceed 13 pages in most <br> cases. Interviewers had to wait for long periods in order to complete <br> questionnaires while respondents had to do other things. <br> Problems found during fieldwork |
| 2.Committee Members of PCBS had in many cases to visit non-responding <br> enterprises accompanied by interviewers to convincing them in <br> completing the questionnaire. |  |
|  | 3. Filling in the data on financial issues cause the delay for the interview, |
| that mostly caused rejection. |  |

## Questionnaires

| Problems for the understanding of <br> questions (write question number) |  |
| :--- | :--- |
| Problems found in the navigability <br> of questionnaires (for example, <br> skip patterns) |  |
| Comments on questionnaire length |  |
| Suggestions or other comments on <br> the questionnaires |  |

## Quality control

| Fieldwork monitoring |  |
| :--- | :--- |
| Data checking procedures |  |
| Number of respondents selected <br> for back-checking |  |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |


| Number of completed interviews <br> back-checked |  |
| :--- | :--- |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why |  |

## Database

| Data entry program chosen | CAPI and entry through a special data entry application used over PC |
| :--- | :--- |
| Comments on the data entry <br> program |  |
| Comments on the data cleaning |  |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the |  |
| :--- | :--- |
| results of the survey |  |$\quad$| Relevant country events that <br> occurred during fieldwork |
| :--- |
| Other aspects |

## A. 9 Yemen

## A.9.1. Sampling structure and implementation

The first sampling frame was supplied by the World Bank and consisted of enterprises interviewed in the 2010 Enterprise Survey in Yemen. The World Bank required that attempts should be made to reinterview establishments responding to the ES 2010 where they were within the selected geographical regions and met eligibility criteria. That sample is referred to as the Panel. The source of the second sample frame, referred to as the Fresh sample here, was the 2010 Establishment Census, obtained from the Central Statistics Office, with updates and validation provided by the local consultant, Yemen Polling Center (YPC).

The quality of the frame was assessed at the onset of the project. The frame proved to be useful though it showed positive rates of non-eligibility, repetition, non-existent units, etc. These problems are typical of establishment surveys, but given the impact these inaccuracies may have on the results, adjustments were needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of contacts to complete the survey was $13.3 \%$ (174 out of 1141 establishments).

Regional stratification was defined in 6 regions. These regions are Amanat Al-Asemah, Aden, Hudaydah, Hadhramawt, Ibb and Taizz. Other governorates were not covered by the survey.

| Governorate | ES region |
| :---: | :---: |
| Amanat Al Asemah | Amanat Al-Asemah (Sanaa) |
| Sanaa |  |
| Aden | Aden |
| Hudaydah | Hudaydah |
| Hadhramawt | Hadhramawt |
| Ibb | Ibb |
| Taizz | Taizz |
| Amran | Not covered |
| Abyan |  |
| Ad Dali |  |
| Al Bayda |  |
| Al Jawf |  |
| Al Mahrah |  |
| Al Mahwit |  |
| Dhamar |  |
| Hajjah |  |
| Lahij |  |
| Marib |  |
| Raymah |  |
| Sadah |  |
| Shabwah |  |

## Sampling frame

## Fresh

| Region | Employees | Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amanat Al-Asemah (Sanna) | 5-19 | 1510 | 791 | 2296 | 4597 |
|  | 20-99 | 73 | 44 | 180 | 297 |
|  | 100+ | 11 | 5 | 13 | 29 |
|  | Total | 1594 | 840 | 2489 | 4923 |
| Aden | 5-19 | 346 | 186 | 659 | 1191 |
|  | 20-99 | 19 | 13 | 50 | 82 |
|  | 100+ | 9 | 0 | 11 | 20 |
|  | Total | 374 | 199 | 720 | 1293 |
| Hudaydah | 5-19 | 611 | 228 | 841 | 1680 |
|  | 20-99 | 26 | 13 | 44 | 83 |
|  | 100+ | 12 | 1 | 3 | 16 |
|  | Total | 649 | 242 | 888 | 1779 |
| Hadhramawt | 5-19 | 366 | 104 | 530 | 1000 |
|  | 20-99 | 24 | 13 | 21 | 58 |
|  | 100+ | 7 | 0 | 3 | 10 |
|  | Total | 397 | 117 | 554 | 1068 |
| Ibb | 5-19 | 211 | 170 | 356 | 737 |
|  | 20-99 | 4 | 12 | 11 | 27 |
|  | 100+ | 0 | 0 | 0 | 0 |
|  | Total | 215 | 182 | 367 | 764 |
| Taizz | 5-19 | 519 | 239 | 776 | 1534 |
|  | 20-99 | 18 | 12 | 25 | 55 |
|  | 100+ | 17 | 0 | 3 | 20 |
|  | Total | 554 | 251 | 804 | 1609 |
| Grand Total |  | 3783 | 1831 | 5822 | 11436 |

Source: 2010 Establishment Census

Panel

| Region | Employees | Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amanat Al-Asemah (Sanna) | 5-19 | 31 | 6 | 24 | 61 |
|  | 20-99 | 20 | 13 | 14 | 47 |
|  | 100+ | 10 | 1 | 12 | 23 |
|  | Total | 61 | 20 | 50 | 131 |
| Aden | 5-19 | 23 | 17 | 10 | 50 |
|  | 20-99 | 12 | 3 | 14 | 29 |
|  | 100+ | 5 | 1 | 3 | 9 |
|  | Total | 40 | 21 | 27 | 88 |
| Hudaydah | 5-19 | 39 | 16 | 12 | 67 |
|  | 20-99 | 10 | 1 | 8 | 19 |
|  | 100+ | 5 | 0 | 0 | 5 |
|  | Total | 54 | 17 | 20 | 91 |
| Hadhramawt | 5-19 | 13 | 7 | 6 | 26 |
|  | 20-99 | 9 | 0 | 3 | 12 |
|  | 100+ | 6 | 1 | 0 | 7 |
|  | Total | 28 | 8 | 9 | 45 |
| Ibb | 5-19 | 19 | 6 | 9 | 34 |
|  | 20-99 | 3 | 0 | 3 | 6 |
|  | 100+ | 0 | 0 | 0 | 0 |
|  | Total | 22 | 6 | 12 | 40 |
| Taizz | 5-19 | 33 | 14 | 11 | 58 |
|  | 20-99 | 7 | 0 | 9 | 16 |
|  | 100+ | 6 | 0 | 2 | 8 |
|  | Total | 46 | 14 | 22 | 82 |
| Grand Total |  | 251 | 86 | 140 | 477 |

Source: World Bank Enterprise Survey Yemen, 2010.

Original sample design

| Region | Employees | Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amanat Al-Asemah (Sanna) | 5-19 | 16 | 23 | 41 | 80 |
|  | 20-99 | 5 | 34 | 5 | 44 |
|  | 100+ | 15 | 4 | 17 | 36 |
|  | Total | 36 | 61 | 63 | 160 |
| Aden | 5-19 | 4 | 4 | 4 | 12 |
|  | 20-99 | 4 | 7 | 4 | 15 |
|  | 100+ | 11 | 1 | 9 | 21 |
|  | Total | 19 | 12 | 17 | 48 |
| Hudaydah | 5-19 | 4 | 4 | 4 | 12 |
|  | 20-99 | 4 | 7 | 4 | 15 |
|  | 100+ | 12 | 1 | 2 | 15 |
|  | Total | 20 | 12 | 10 | 42 |
| Hadhramawt | 5-19 | 4 | 4 | 4 | 12 |
|  | 20-99 | 4 | 7 | 4 | 15 |
|  | 100+ | 9 | 1 | 2 | 12 |
|  | Total | 17 | 12 | 10 | 39 |
| Ibb | 5-19 | 4 | 4 | 4 | 12 |
|  | 20-99 | 4 | 7 | 4 | 15 |
|  | 100+ | 0 | 0 | 0 | 0 |
|  | Total | 8 | 11 | 8 | 27 |
| Taizz | 5-19 | 4 | 4 | 4 | 12 |
|  | 20-99 | 4 | 8 | 4 | 16 |
|  | 100+ | 12 | 0 | 4 | 16 |
|  | Total | 20 | 12 | 12 | 44 |
| Grand Total |  | 120 | 120 | 120 | 360 |

Achieved sample (based on a2, a4a and a6a)

| Region | Employees | Manufacturing | Retail | Other Services | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amanat Al-Asemah (Sanna) | 5-19 | 19 | 42 | 29 | 90 |
|  | 20-99 | 15 | 12 | 16 | 43 |
|  | 100+ | 7 | 0 | 9 | 16 |
|  | Total | 41 | 54 | 54 | 149 |
| Aden | 5-19 | 7 | 9 | 2 | 18 |
|  | 20-99 | 9 | 3 | 11 | 23 |
|  | 100+ | 1 | 0 | 2 | 3 |
|  | Total | 17 | 12 | 15 | 44 |
| Hudaydah | 5-19 | 5 | 10 | 6 | 21 |
|  | 20-99 | 8 | 2 | 8 | 18 |
|  | 100+ | 2 | 0 | 0 | 2 |
|  | Total | 15 | 12 | 14 | 41 |
| Hadhramawt | 5-19 | 10 | 9 | 5 | 24 |
|  | 20-99 | 12 | 3 | 9 | 24 |
|  | 100+ | 5 | 0 | 0 | 5 |
|  | Total | 27 | 12 | 14 | 53 |
| Ibb | 5-19 | 8 | 5 | 2 | 15 |
|  | 20-99 | 3 | 0 | 2 | 5 |
|  | 100+ | 0 | 0 | 0 | 0 |
|  | Total | 11 | 5 | 4 | 20 |
| Taizz | 5-19 | 5 | 5 | 8 | 18 |
|  | 20-99 | 10 | 1 | 12 | 23 |
|  | 100+ | 4 | 0 | 1 | 5 |
|  | Total | 19 | 6 | 21 | 46 |
| Grand Total |  | 130 | 101 | 122 | 353 |

Note: due to issues of high observed weights and strata-related non-response, weights were collapsed over location, pooling observatons for Aden, Hudaydah and Taizz.

## A.9.2. Status codes

|  | TOTAL | FRESH | PANEL |
| :--- | :---: | :---: | :---: |
| Complete interviews (Total) | 353 | 216 | 137 |
| Complete interviews (not eligible for innovation) | 138 | 93 | 45 |
| Complete interviews (with innovation) | 199 | 113 | 86 |
| Complete interviews (eligible, but refused to answer innovation) | 16 | 10 | 6 |
| Incomplete interviews | 0 | 0 | 0 |
| Elegible in process | 8 | 5 | 3 |
| Refusals | 96 | 57 | 39 |
| Quota is met | 0 | 0 | 0 |
| Out of target | 166 | 125 | 41 |
| Impossible to contact | 434 | 329 | 105 |
| Ineligible - coop. | 8 | 0 | 8 |
| Refusal to the Screener | 76 | 40 | 36 |
| Total | 1141 | 772 | 369 |


|  | 1.Elegible establishment (Correct name and address) | 127 | 59 | 68 |
| :---: | :---: | :---: | :---: | :---: |
|  | 2. Elegible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment) | 1 | 1 | 0 |
|  | 3. Elegible establishment (Different name but same address - the firm/establishment changed its name) | 46 | 31 | 15 |
|  | 4. Elegible establishment (Wrong address - the firm/establishmen has changed address and the address could be found) | 256 | 187 | 69 |
|  | 16. Panel firm - now less than five employees | 27 | 0 | 27 |
|  | 5. The establishment has less than 5 permanent full time employees | 53 | 53 | 0 |
|  | 6. The firm discontinued businesses | 29 | 15 | 14 |
|  | 7. Not a business: private household | 63 | 37 | 26 |
|  | 8. Ineligible activity: education, agriculture, finances, governments... | 21 | 20 | 1 |
|  | 91. No reply (after having called in different days of the week and in different business hours) | 73 | 46 | 27 |
|  | 92. Line out of order | 117 | 67 | 50 |
|  | 93. No tone | 39 | 28 | 11 |
|  | 94. Phone number does not exist | 4 | 0 | 4 |
|  | 10. Answering machine | 0 | 0 | 0 |
|  | 11. Fax line - data line | 1 | 0 | 1 |
|  | 12. Wrong address/ moved away and could not get the new references | 200 | 188 | 12 |
|  | 13. Refuses to answer the screener | 76 | 40 | 36 |
|  | 14. In process (the establishment is being called//is being contacted - previous to ask the screener) | 0 | 0 | 0 |
|  | 151. Out of target - outside the covered regions, firm moved abroad | 0 | 0 | 0 |
|  | 152. Out of target - firm moved abroad | 3 | 0 | 3 |
|  | 153. Impossible to find | 5 | 0 | 5 |
|  | 154. Establishment is HQ without production or sales in the location | 0 | 0 | 0 |
|  | 156. Duplicate in the sample | 0 | 0 | 0 |
|  | Total | 1141 | 772 | 369 |

## A.9.3. Survey and item non-response

The number of completed interviews per contacted establishment was 0.37 . This number is the result of two factors: explicit refusals to participate in the survey, as reflected by the rate of rejection (which
includes rejections of the screener and the main survey) and the quality of the sampling frame, as represented by the presence of ineligible units. The number of rejections per contact was 0.20.

## A.9.4. Local agency team involved in the study and its comments on the implementation

## Local agency team involved in the survey

| Local agency | Name: Yemen Poling Center (YPC) <br> Country: Yemen <br> Membership of international organisation: <br> Activities since: |
| :--- | :--- |
| Name of Project Manager |  |
| Name and position of other key <br> persons of the project |  |
| Enumerators involved |  |
| Other staff involved |  |

## Sampling frame

| Characteristic of sample frame <br> used |  |
| :--- | :--- |
| Source | World Bank Enterprise Survey Yemen 2010 and 2010 Establishment Census, <br> Central Statistics Office |
| Year of publication | 2010 |
| Comments on the quality of the <br> sample frame |  |
| Year and organisation that <br> conducted the last economic <br> census | 2010 Establishment Census, Central Statistics Office |

## Sample

| Comments/problems on sectors <br> and regions selected in the sample |  |
| :--- | :--- |
| Comments on the response rate |  |
| Comments on the sample design |  |
| Other comments |  |

## Fieldwork

| Date of fieldwork | March 2013 - July 2014 |
| :--- | :--- |
| Country | Yemen |
| Number of completed interviews | 353 |
| Problems found during fieldwork |  |
| Other observations |  |

## Questionnaires

Problems for the understanding of questions (write question number) Problems found in the navigability of questionnaires (for example, skip patterns) Comments on questionnaire length Suggestions or other comments on the questionnaires

## Quality control

| Fieldwork monitoring |  |
| :--- | :--- |
| Data checking procedures | All verifications and consistency checks (for tablet-based interviews) were |


|  | applied on PC-tablet applications. An error message pops up when entering <br> a wrong value and some error messages show up in red for sensitive <br> questions. Yemen Poling Center conducted ongoing callbacks at the <br> direction of Gallup throughout the fieldwork period. Callbacks were also <br> made to correct invalid responses, to get more detail on the string variables <br> and to complete questions the respondent originally declined to answer. |
| :--- | :--- |
| Number of respondents selected <br> for back-checking |  |
| Selection procedures |  |
| Who carried out back-checks? |  |
| Mode of contact |  |
| Number of completed interviews <br> back-checked |  |
| Number of non-responses back- <br> checked |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why |  |

Database

| Data entry program chosen |  |
| :--- | :--- |
| Comments on the data entry <br> program |  |
| Comments on the data cleaning |  |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the <br> results of the survey |  |
| :--- | :--- |
| Relevant country events that <br> occurred during fieldwork |  |
| Other aspects |  |
| Results of alternative method of <br> contacting non-respondents |  |
| Description of what was covered in <br> the back-checks |  |
| Number of completed interviews <br> that were rejected and why |  |

## Database

| Data entry program chosen |  |
| :--- | :--- |
| Comments on the data entry <br> program |  |
| Comments on the data cleaning |  |

## Country situation

| General aspects of economic, <br> political or social situation of the <br> country that could affect the <br> results of the survey |  |
| :--- | :--- |
| Relevant country events that <br> occurred during fieldwork |  |


[^0]:    ${ }^{1}$ The panel firms from MENA ES with less than 5 employees are included in the 5 to 19 strata.

[^1]:    ${ }^{2}$ This is equivalent to the weighted average of the estimates for each stratum, with weights equal to the population shares of each stratum.

[^2]:    ${ }^{3}$ Note that weighted OLS in Stata using the command regress with the option of weights will estimate wrong standard errors. Using the Stata survey specific commands svy will provide appropriate standard errors.
    ${ }^{4}$ The use of weights in most model-assisted estimations using survey data is strongly recommended by the statisticians specialised on survey methodology of the JPSM of the University of Michigan and the University of Maryland.

[^3]:    ${ }^{5}$ The estimate is based on the total number of firms contacted including ineligible establishments.

[^4]:    Date of fieldwork

    PARC: June 2013 - August 2014, with additional quality control occurring until February 2015

[^5]:    ${ }^{6}$ In the case of the World Bank SME study, a small panel of firms was re-visited and included. The stratification categories provided in other supplementary lists were drawn as shown above, then confirmed as eligible for MENA ES, by strata in the course of screening and the ES process.

[^6]:    Source: Several sources compiled by the local contractors.

