

## The Uganda 2025 World Bank Enterprise Survey Implementation Report

### I. Introduction

This document provides information on the World Bank Enterprise Surveys (WBES) implemented in Uganda between March and November 2025. The WBES collect both objective data based on firms' day-to-day experiences, and perceptions of enterprises regarding the business environment in which they operate. The WBES has global coverage. The WBES are also used to build a panel of enterprise data that will make it possible to track changes in the business environment over time.<sup>1</sup>

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

### II. Sampling Structure

The WBES use stratified random sampling, where the population of establishments is first separated into non-overlapping groups, called strata, and then respondents are selected through simple random sampling from each stratum. The detailed methodology is provided in the Sampling Note.<sup>2</sup> Stratified random sampling has several advantages over simple random sampling. In particular, it:

- produces unbiased estimates of the whole population or universe of inference, as well as at the levels of stratification
- ensures representativeness by including observations in all of those categories
- produces more precise estimates than simple random sampling for a given sample size or budget allocation, and
- may reduce implementation costs by splitting the population into convenient subdivisions.

The WBES typically use three levels of stratification: industry classification, establishment size, and subnational region (used in combination). Starting in 2022, the WBES bases the industry classification on ISIC Rev. 4 (with earlier surveys using ISIC Rev. 3.1).<sup>3</sup> For regional coverage within a country, the WBES has national coverage.

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<sup>1</sup> A “panel interview” refers to an interview with a business that was also interviewed in the previous WBES.

<sup>2</sup> The Sampling Note is available at:

[https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling\\_Note-Consolidated-2-16-22.pdf](https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling_Note-Consolidated-2-16-22.pdf).

<sup>3</sup> The WBES universe includes: all manufacturing (ISIC 4.0 codes 10-33), services (ISIC 4.0 codes 41-43, 45-47, 49-56, 58, 61, 62, 69-75, 79, 95). Details on sectoral coverage and the WBES universe of inference can be found in the *Enterprise Surveys Manual and Guide* (p. 4).

## II.1 Universe

The universe of inference includes all formal (i.e., registered) private sector establishments<sup>4</sup> (with at least 1% private ownership) and with at least five employees. In terms of sectoral criteria, all manufacturing businesses (ISIC Rev 4. codes 10-33) are eligible; for services businesses, those corresponding to the ISIC Rev 4 codes 41-43, 45-47, 49-53, 55-56, 58, 61-62, 69-75, 79, and 95 are included in the Enterprise Surveys. Cooperatives and collectives are excluded from the Enterprise Surveys. All eligible establishments must be registered with the Uganda Registration Services Bureau (URSB). The universe table is the total number of eligible establishments, and the table is partitioned by the stratification groups (industry classification, establishment size, and subnational region) in a country.

For the Uganda 2025 WBES, the universe table, shown in Table 1 below, was obtained from the Uganda Bureau of Statistics (UBOS) Census 2019/2020.

## II.2 Sampling Frame

The WBES requires the most complete and up-to-date Sampling Frame, the list of eligible establishments with information on industry classification, size, address and other contact information that will be used to randomly select the sample. In countries where a previous round of the WBES exists, the Sampling Frame also includes the Panel Sampling Frame, which provides information about all the establishments that participated in the previous round of the WBES in the country.

The Sampling Frame for the Uganda 2025 WBES was constructed from the following sources (see counts of establishments in the frame in Table 2). The Panel Sampling Frame was constructed using information on all the establishments that participated in the Uganda 2013 WBES. The Fresh Sampling Frame, i.e., list of establishments that are in the WBES universe and that have not participated in the Uganda 2013 WBES, was obtained from the Uganda Bureau of Statistics (UBOS) Census 2019/2020.

It should be noted that the full Sampling Frame was not shared by UBOS. Instead, a partial sampling frame was drawn by UBOS, based on the sample design, that was done by the World Bank, multiplied by 4.5 inflation factor.

For every WBES, necessary measures are taken to ensure the quality of the frame; however, the sample frames are not immune to the typical problems found in establishment surveys: positive rates of non-eligibility, repetition, non-existent units, etc. Given the impact that non-eligible units included in the sample universe may have on the results, eligibility adjustments may be needed when computing the appropriate sampling weights for individual observations if and only if the

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<sup>4</sup> The unit of analysis of every WBES is the establishment defined as a business entity associated with a physical location with its own set of financial statements, including Balance Sheet and Income Statement. However, in many economies official statistics are provided at the firm level, where a firm may be composed of several establishments, the so called multi-establishment firms.

universe equals the sampling frame (that is the weights project to universe totals by cell, coming from the sampling frame). Table 4 reports response outcomes.

### II.3 Stratification Categories

The Uganda 2025 WBES uses the following stratification categories:

- **Industry:**
  1. Food (ISIC Rev 4.0 Code 10)
  2. Other manufacturing (ISIC Rev 4.0 Codes 11-33)
  3. Retail (ISIC Rev 4.0 Code 47)
  4. Other Services (ISIC Rev 4.0 Code 41-43, 45-46, 49-53, 55-56, 58, 61-62, 69-75, 79, 92)
- **Size:**
  1. Small (5 to 19 employees),
  2. Medium (20 to 99 employees),
  3. Large (100 or more employees)
- **Region:**
  1. Central
  2. Western
  3. Eastern
  4. Northern

Industry strata for the manufacturing sector have the food manufacturing sector (ISIC Rev. 4 code 10) singled out due to the importance of the agro-processing subsector in the Uganda economy. From the services, retail (ISIC Rev. 47), was singled out as the largest sector by number of firms.

Region strata of the Uganda 2025 WBES were selected based on administrative regions.

### II.4 Sample Design

The WBES sample design, i.e., target number of interviews in each combination of stratification categories (cells), is generated using the two primary criteria: 1) minimize the difference from the purely proportional sample within each cell; and 2) achieve a sufficient sample size by stratification category to allow for estimates of a given level of precision. Additional information on the criteria for determining the sample size by stratification category is given in the *Sampling Note*, and additional information on the sample design is given in the *Enterprise Surveys Manual and Guide*.<sup>5</sup> The original survey design for the Uganda 2025 WBES is given in Table 3.

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<sup>5</sup> The *Enterprise Surveys Manual and Guide* is available at: [https://www.worldbank.org/content/dam/enterprisesurveys/documents/methodology/Enterprise%20Surveys\\_Manual%20and%20Guide.pdf](https://www.worldbank.org/content/dam/enterprisesurveys/documents/methodology/Enterprise%20Surveys_Manual%20and%20Guide.pdf)

### **III. Data Collection**

The detailed information on the WBES methodology and data collection is provided in the Enterprise Surveys Manual and Guide. The interviews for the Uganda 2025 WBES were conducted between March and November 2025. The interviews were conducted in English. For monetary variables, the currency was Ugandan shilling (UGX).

Apart from the challenges with participation and call-backs that are standard for all surveys, the Uganda 2025 WBES faced no other fieldwork challenges.

#### **III.1 Questionnaire**

The standard WBES questionnaire covers several topics regarding the business environment and business performance. These topics include general establishment characteristics, infrastructure, sales and supplies, trade, management practices, competition, innovation, capacity, land and permits, finance, business-government relations, exposure to bribery, labor, and performance. Information about the general structure of the questionnaire is available in the *Enterprise Surveys Manual and Guide*.

#### **III.2 Contractor**

The fieldwork for the Uganda 2025 WBES was implemented by Ipsos Kenya (main contractor) in collaboration with Ipsos Uganda (sub-contractor). The selection for the implementing agency followed the standard World Bank procurement practices that are described in more detail in the *Enterprise Surveys Manual and Guide*.

#### **III.3 Sampling and screening**

Samples are drawn by the Enterprise Surveys team in batches, following the stratification and sample design. The contractor conducted a thorough screening process before scheduling the ES interviews. Results of the screening are provided using the eligibility and status codes as listed in Table 4. In cases of unit non-response (either a refusal or an inability to obtain an interview after exhaustive attempts), the contractor proceeded with the contact that appeared next in the list drawn in the respective cell. The process of sampling and screening is described in more detail in the *Enterprise Surveys Manual and Guide*.

#### **III.4 Survey response**

In all surveys, including the WBES, some respondents choose not to participate. The Enterprise Analysis team and the contractor take all necessary measures to boost participation, through various methods of recruitment. The proper management of the screening process and sample replacement ensures that the resulting sample remains random.

The main measure of survey participation is the yield, which is the ratio of the total number of achieved interviews to the total number of contacted establishments. There are two main elements that boost yields. First is the survey participation rate, measured as the share of establishments that participated among those that can be assumed to have been eligible. The second element is the quality of frame. If only a small fraction of the contacted establishments is actually

eligible to participate in the survey, then the sampling frame is far from ideal. This quality is measured by the ratio of the total number of establishments that are eligible for the WBES to the total number of contacted establishments in the frame. In other words:

$$Yield = Survey\ response\ rate * Rate\ of\ quality\ of\ the\ frame$$

which can be rewritten as follows:

$$\frac{Total\ interviewed}{Total\ contacted} = \frac{Total\ interviewed}{Assumed\ eligible} * \frac{Assumed\ eligible}{Total\ contacted}$$

Table 5 provides these measures for the Uganda 2025 WBES and across its stratification levels.

### III.5 Achieved Sample

Tables 6 and 7 provide counts of the WBES interviews collected for each stratification cell, i.e., broken down by industry, establishment size, and region. Table 6 reports full sample, while Table 7 shows counts of only panel interviews.

### III.6 Sampling Weights

Since the WBES uses stratified random sampling, individual observations should be properly weighted when making inferences about the population, since unweighted estimates are biased unless sample sizes are proportional to the size of each stratum. For each WBES, special care is given to correctly compute sampling weights. Whenever the Universe is used to draw the sample (i.e., Sampling Frame is the same as the Universe) it is imperative to accurately adjust the universe within each stratum to account for the presence of ineligible establishments (e.g., the establishment discontinued businesses, or is deemed ineligible due to its business activity or having fewer than five employees). Proper treatment of panel establishments is also crucial. Details about how the WBES sampling weights are calculated are given in the *Sampling Note*.

Three versions of sampling weights are calculated, depending on the assumptions that determine eligibility of establishments to be counted towards the WBES universe. These assumptions are called weak, medium, and strong; and are defined as given in the table below. Prevalence of each of these outcomes for the Uganda 2025 WBES is given in Table 4. All indicators and analysis conducted by the Enterprise Surveys team use the sampling weights based on the median assumption. Tables 8-10 report estimated universe based on the respective assumption.

<b>Assumption</b>	<b>Eligibility codes for inclusion in the WBES universe</b>
Strict	1, 2, 3, 4
Median	1, 2, 3, 4, 10, 11, 13, 133
Weak	1, 2, 3, 4, 10, 11, 13, 133, 91, 92, 93, 94, 12

For descriptions of each eligibility code, see Table 4 of the sampling note.

### III.7 Item response rates

Item response rate must be differentiated from survey response rates. The latter refers to participation in the survey itself (see Section III.4) whereas the former refers to the absence of responses to specific survey questions. The WBES, as any survey, suffer from item non-response; and different strategies are used by the data collection team to address this. In particular:

- For sensitive questions, such as on corruption or tax evasion, enumerators were instructed to collect the refusal to respond (-8) as a separate response category from don't know (-9).
- Establishments with incomplete information were re-contacted to fill gaps.

Table 11 provides item response rates for several key variables, broken down across the stratification levels.

### III.8 Database Structure

The WBES datafiles are organized in ways that reflect the corresponding questionnaire. The variables that are standard across countries have the first letter in their name correspond to the questionnaire section where the variable belongs in the questionnaire, i.e., *a1* denotes section *A*. All variables are numeric with the exception of those variables with an “x” at the end of their names. The suffix “x” denotes that the variable is alpha-numeric.

The WBES datafiles contain two establishment identifiers, *idstd* and *id*. The former is a global unique identifier of each establishment, while the latter is unique identifier within each survey. The variable *idstd* can be used to match the WBES establishment one-to-one across databases. The variables *wweak*, *wmedian*, and *wstrong* corresponding to sampling weights based on, respectively, weak, median, and strong assumptions about eligibility (see Section III.6). The variable *strata* corresponds to the stratum of each observation.<sup>6</sup>

Additionally, the WBES datafiles contain many standard variables. The variable *d1a2\_v4* denotes the main activity of the establishment, as obtained during the WBES interview, coded in the four-digit ISIC Rev. 4. Users should note that this activity may differ from the industry classification given in the Sampling Frame, *a4a*. Users are generally advised to use industry categories based on the realized information in *d1a2\_v4*. Additional sampling information is contained in variables *a2* (region) and *a6a* (size). The variable *panel* identifies panel establishments, i.e., those that participated in the Uganda 2013 WBES. The combination of *a4a*, *a2*, *a6a*, and *panel* forms stratum of each establishment, which is contained in variable *strata*.

The last complete fiscal year for each establishment is contained in variables *a20m* (last month of last complete fiscal year) and *a20y* (last complete fiscal year).

Note that when an entry in the WBES database is empty, this means that the question was not asked to the corresponding respondent. This happens when the question is deemed inapplicable, due to skip patterns or other reasons.

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<sup>6</sup> Note that the sampling weights may vary within *strata* for panel establishments due to the procedure used for projecting the universe from the previous round of the survey.

#### IV. Useful Links

The users of the WBES data may find the following links useful:

- *Sampling Note* is available at:  
[https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling\\_Note-Consolidated-2-16-22.pdf](https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling_Note-Consolidated-2-16-22.pdf)
- The *Enterprise Surveys Manual and Guide* is available at:  
[https://www.worldbank.org/content/dam/enterprisesurveys/documents/methodology/Enterprise%20Surveys\\_Manual%20and%20Guide.pdf](https://www.worldbank.org/content/dam/enterprisesurveys/documents/methodology/Enterprise%20Surveys_Manual%20and%20Guide.pdf)
- The WBES global questionnaires are available at:  
<https://www.enterprisesurveys.org/en/methodology>
- The projects that are currently being implemented by the Enterprise Surveys team are available at: <https://www.enterprisesurveys.org/en/project-schedule>
- The list of all WBES databases and detailed information about each is available here:  
<https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/DataDetails.xls>
- The description of the WBES indicators is available at:  
<https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Indicator-Description.pdf>

## Fact Sheet

Source of Universe Table	Uganda Bureau of Statistics (UBOS) Census 2019/2020
Source of Sampling Frame	Uganda Bureau of Statistics (UBOS) Census 2019/2020
Levels of Universe Table and Sampling Frame	Universe Table: Establishment-level Sampling Frame: Establishment-level
Registration agency	Uganda Registration Services Bureau (URSB)
Stratification sectors	1. Food 2. Other Manufacturing 3. Retail 4. Other Services
Stratification sizes	1. Small (5 to 19 employees) 2. Medium (20 to 99 employees) 3. Large (100 or more employees)
Stratification regions	1. Central 2. Western 3. Eastern 4. Northern
Contractor	Ipsos Kenya
Fieldwork dates	March – November 2025
Interview languages	English
Survey software	Survey Solutions
Currency for nominal variables	Ugandan shilling (UGX)
Reference fiscal year	2024 (605 obs.)
VAT Applicable	YES
Additional definitions	“Consumption Tax” was referred to as VAT
Sample Size	Total: 605      Fresh: 406      Panel: 199
Survey response rates	Yield: 49.7% Response rate: 87.8% Frame quality: 56.6%
Item response rates	d2: 92.4% n2a: 89.9% l1: 100% all TFPvars <sup>7</sup> : 77.1%
Additional topics covered in the questionnaire	
Additional surveys available (if any)	

<sup>7</sup> TFP stands for total factor productivity. TFP variables are d2 (annual sales), n2a (annual cost of labor), n2e (annual cost of intermediate goods) and n7e (replacement cost of capital). Response rate for TFP variables is calculated only for manufacturing establishments.

## Tables

**Table 1: Uganda 2025 WBES Universe**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	442	5943	15267	14745	<b>45,461</b>
<b>Central</b>	Medium (20-99)	162	433	4205	3961	
<b>Central</b>	Large (100 or more)	34	86	30	153	
<b>Western</b>	Small (5-19)	120	1344	1612	1657	<b>6,541</b>
<b>Western</b>	Medium (20-99)	45	88	939	717	
<b>Western</b>	Large (100 or more)	8	4	0	7	
<b>Eastern</b>	Small (5-19)	149	939	1992	1626	<b>6,739</b>
<b>Eastern</b>	Medium (20-99)	40	49	1190	733	
<b>Eastern</b>	Large (100 or more)	5	6	3	7	
<b>Northern</b>	Small (5-19)	63	472	674	1005	<b>2,994</b>
<b>Northern</b>	Medium (20-99)	15	21	367	372	
<b>Northern</b>	Large (100 or more)	2	1	1	1	
		<b>1,085</b>	<b>9,386</b>	<b>26,280</b>	<b>24,984</b>	<b>61,735</b>

Source : Uganda Bureau of Statistics (UBOS) (Establishment-level)

**Table 2: Uganda 2025 WBES Sample Frame (Fresh and Panel Combined)**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	39	148	301	274	<b>1,356</b>
<b>Central</b>	Medium (20-99)	39	64	62	70	
<b>Central</b>	Large (100 or more)	53	102	33	171	
<b>Western</b>	Small (5-19)	59	65	40	45	<b>596</b>
<b>Western</b>	Medium (20-99)	50	96	112	109	
<b>Western</b>	Large (100 or more)	9	4	0	7	
<b>Eastern</b>	Small (5-19)	63	63	81	57	<b>623</b>
<b>Eastern</b>	Medium (20-99)	52	57	122	98	
<b>Eastern</b>	Large (100 or more)	9	9	4	8	
<b>Northern</b>	Small (5-19)	68	51	37	62	<b>517</b>
<b>Northern</b>	Medium (20-99)	18	22	122	132	
<b>Northern</b>	Large (100 or more)	2	1	1	1	
		<b>461</b>	<b>682</b>	<b>915</b>	<b>1,034</b>	<b>3,092</b>

Source: Uganda Bureau of Statistics (UBOS) (Establishment-level)

**Table 3: Original Survey Design (Fresh and Panel Combined)**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	4	11	50	44	<b>240</b>
<b>Central</b>	Medium (20-99)	4	4	8	8	
<b>Central</b>	Large (100 or more)	16	31	10	50	
<b>Western</b>	Small (5-19)	11	9	6	7	<b>120</b>
<b>Western</b>	Medium (20-99)	15	20	23	21	
<b>Western</b>	Large (100 or more)	3	2	0	3	
<b>Eastern</b>	Small (5-19)	10	4	10	6	<b>120</b>
<b>Eastern</b>	Medium (20-99)	16	18	25	20	
<b>Eastern</b>	Large (100 or more)	3	3	2	3	
<b>Northern</b>	Small (5-19)	20	10	7	11	<b>120</b>
<b>Northern</b>	Medium (20-99)	6	7	27	28	
<b>Northern</b>	Large (100 or more)	1	1	1	1	
		<b>109</b>	<b>120</b>	<b>169</b>	<b>202</b>	<b>600</b>

**Table 4: Response Outcomes**

		Totals	Rates relative to total contacted
Overall	Contacts available in frame	3,092	
	Issued	1,860	
	Contacted	1,218	
Screening phase	Eligibles	620	50.9%
	Screener refusals	69	5.7%
	Assumed eligibles	689	56.6%
	Ineligible + out of target	70	5.7%
	Unobtainables	459	37.7%
Interview phase (only if eligible)	Interview refusals	10	0.8%
	Complete interviews	605	49.7%

**Table 5: Survey Yield Rates**

	Stratification	Yield	Survey response rate	Frame quality
Panel	Fresh	48.4%	87.9%	55.1%
	Panel	52.5%	87.7%	59.9%
Size	Small (5-19)	49.3%	94.5%	52.2%
	Medium (20-99)	49.9%	88.9%	56.1%
	Large (100+)	50.0%	75.9%	65.9%
Region	Central	48.6%	84.4%	57.6%
	Western	47.3%	88.5%	53.5%
	Eastern	51.0%	93.2%	54.7%
	Northern	53.1%	89.0%	59.6%
Sector	Food	48.2%	81.3%	59.3%
	Other Manufacturing	51.8%	87.2%	59.4%
	Retail	47.8%	89.9%	53.2%
	Other Services	50.9%	90.4%	56.3%
Overall	Uganda 2025	49.7%	87.8%	56.6%

Notes: the rates are calculated as defined in Section III.4.

**Table 6: Achieved Total Sample (Fresh and Panel Combined)**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	5	21	42	60	<b>246</b>
<b>Central</b>	Medium (20-99)	5	15	5	37	
<b>Central</b>	Large (100 or more)	5	26	0	25	
<b>Western</b>	Small (5-19)	12	22	26	25	<b>114</b>
<b>Western</b>	Medium (20-99)	7	2	2	9	
<b>Western</b>	Large (100 or more)	6	1	0	2	
<b>Eastern</b>	Small (5-19)	15	15	29	27	<b>125</b>
<b>Eastern</b>	Medium (20-99)	6	2	3	11	
<b>Eastern</b>	Large (100 or more)	6	9	0	2	
<b>Northern</b>	Small (5-19)	8	17	41	33	<b>120</b>
<b>Northern</b>	Medium (20-99)	9	1	1	7	
<b>Northern</b>	Large (100 or more)	2	0	0	1	
		<b>86</b>	<b>131</b>	<b>149</b>	<b>239</b>	<b>605</b>

**Table 7: Achieved Panel Sample**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	1	14	17	26	<b>97</b>
<b>Central</b>	Medium (20-99)	2	9	2	10	
<b>Central</b>	Large (100 or more)	2	7	0	7	
<b>Western</b>	Small (5-19)	4	7	10	8	<b>34</b>
<b>Western</b>	Medium (20-99)	1	0	1	3	
<b>Eastern</b>	Small (5-19)	9	7	5	5	<b>44</b>
<b>Eastern</b>	Medium (20-99)	2	2	2	5	
<b>Eastern</b>	Large (100 or more)	3	2	0	2	
<b>Northern</b>	Small (5-19)	0	4	6	7	<b>24</b>
<b>Northern</b>	Medium (20-99)	4	0	0	2	
<b>Northern</b>	Large (100 or more)	0	0	0	1	
		<b>28</b>	<b>52</b>	<b>43</b>	<b>76</b>	<b>199</b>

**Table 8: Weak Universe Estimates**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	202	5574	10327	16335	<b>41,758</b>
<b>Central</b>	Medium (20-99)	103	2485	1118	4914	
<b>Central</b>	Large (100 or more)	10	474	0	218	
<b>Western</b>	Small (5-19)	105	1102	2145	2292	<b>6,358</b>
<b>Western</b>	Medium (20-99)	24	8	45	618	
<b>Western</b>	Large (100 or more)	14	2	0	3	
<b>Eastern</b>	Small (5-19)	424	948	1967	2217	<b>6,528</b>
<b>Eastern</b>	Medium (20-99)	14	4	73	787	
<b>Eastern</b>	Large (100 or more)	48	19	0	25	
<b>Northern</b>	Small (5-19)	30	416	1157	1019	<b>2,810</b>
<b>Northern</b>	Medium (20-99)	56	12	12	95	
<b>Northern</b>	Large (100 or more)	4	0	0	11	
		<b>1034</b>	<b>11042</b>	<b>16843</b>	<b>28535</b>	<b>57,454</b>

**Table 9: Median Universe Estimates**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	118	3060	5742	8988	<b>23,020</b>
<b>Central</b>	Medium (20-99)	62	1334	631	2652	
<b>Central</b>	Large (100 or more)	7	283	0	145	
<b>Western</b>	Small (5-19)	57	575	1126	1183	<b>3,311</b>
<b>Western</b>	Medium (20-99)	14	4	25	316	
<b>Western</b>	Large (100 or more)	8	1	0	2	
<b>Eastern</b>	Small (5-19)	205	487	1015	1165	<b>3,358</b>
<b>Eastern</b>	Medium (20-99)	8	2	42	376	
<b>Eastern</b>	Large (100 or more)	29	12	0	16	
<b>Northern</b>	Small (5-19)	18	232	643	562	<b>1,568</b>
<b>Northern</b>	Medium (20-99)	38	7	7	54	
<b>Northern</b>	Large (100 or more)	3	0	0	5	
		<b>567</b>	<b>5997</b>	<b>9229</b>	<b>15465</b>	<b>31,258</b>

**Table 10: Strict Universe Estimates**

		Food	Other Manufacturing	Retail	Other Services	Grand Total
<b>Central</b>	Small (5-19)	104	3005	5331	8402	<b>21,435</b>
<b>Central</b>	Medium (20-99)	49	1122	565	2434	
<b>Central</b>	Large (100 or more)	6	269	0	148	
<b>Western</b>	Small (5-19)	50	537	1004	1107	<b>3,036</b>
<b>Western</b>	Medium (20-99)	11	4	22	291	
<b>Western</b>	Large (100 or more)	7	1	0	2	
<b>Eastern</b>	Small (5-19)	192	465	953	1143	<b>3,226</b>
<b>Eastern</b>	Medium (20-99)	8	3	42	363	
<b>Eastern</b>	Large (100 or more)	26	11	0	20	
<b>Northern</b>	Small (5-19)	16	223	618	557	<b>1,517</b>
<b>Northern</b>	Medium (20-99)	21	6	6	58	
<b>Northern</b>	Large (100 or more)	3	0	0	9	
		<b>492</b>	<b>5647</b>	<b>8541</b>	<b>14534</b>	<b>29,213</b>

**Table 11: Item Response Rates**

	<b> Screener/Interview</b>	<b>d2</b>	<b>l1</b>	<b>n2a</b>	<b>all TFP variables</b>
Panel	Fresh	92.9%	100.0%	90.1%	77.7%
	Panel	91.5%	100.0%	89.4%	76.1%
Size	Small (5-19)	93.7%	100.0%	91.2%	74.8%
	Medium (20-99)	91.8%	100.0%	89.3%	77.3%
	Large (100+)	87.1%	100.0%	84.7%	81.5%
Region	Central	90.7%	100.0%	89.4%	75.4%
	Western	89.5%	100.0%	81.6%	58.0%
	Eastern	100.0%	100.0%	99.2%	92.3%
	Northern	90.8%	100.0%	89.2%	86.7%
Sector	Food	95.3%	100.0%	93.0%	80.2%
	Other Manufacturing	92.4%	100.0%	87.0%	74.8%
	Retail	94.0%	100.0%	92.6%	#N/A
	Other Services	90.4%	100.0%	88.7%	#N/A
Overall	Uganda 2025	92.4%	100.0%	89.9%	77.1%

Notes: the rates are calculated as follows. The number of responses with informative content in the respective variable (or combination of variables in the case of TFP) is divided by the same number plus the number of responses that are "don't know" (code -9) or refusal (code -8).