

The Albania 2013 Enterprise Surveys Data Set

I. Introduction

1. This document provides additional information on the data collected in Albania between March 2013 and July 2013 as part of the fifth round of the Business Environment and Enterprise Performance Survey (BEEPS V), a joint initiative of the World Bank Group (“WB”) and the European Bank for Reconstruction and Development (“EBRD”). It is an enterprise survey whose objective is to gain an understanding of firms’ perception of the environment in which they operate. The survey was until now administered four times at an interval of three years. This has added an important element of dynamics in the study of business environment in transition countries.

The Enterprise Surveys, through interviews with firms in the manufacturing and services sectors, capture business perceptions on 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. They are used to create statistically significant business environment indicators that are comparable across countries. The Enterprise Surveys are also used to build a panel of enterprise data that will make it possible to track changes in the business environment over time and allow, for example, impact assessments of reforms.

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 the weights.

II. Sampling Structure

2. The sample for Albania was selected using stratified random sampling, following the methodology explained in the *Sampling Manual*¹. Stratified random sampling² was preferred over simple random sampling for several reasons³:

a. To obtain unbiased estimates for different subdivisions of the population with some known level of precision.

b. To obtain unbiased estimates for the whole population. The whole population, or 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.

c. 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.

¹ The complete text can be found at http://www.enterprisesurveys.org/documents/Implementation_note.pdf

² A stratified random sample is one obtained by separating the population elements into non-overlapping groups, called strata, and then selecting a simple random sample from each stratum. (Richard L. Scheaffer; Mendenhall, W.; Lyman, R., “Elementary Survey Sampling”, Fifth Edition).

³ Cochran, W., 1977, pp. 89; Lohr, Sharon, 1999, pp. 95

d. 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.)

e. 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.

f. The cost per observation in the survey may be reduced by stratification of the population elements into convenient groupings.

3. Three levels of stratification were used in this country: industry, establishment size, and region. The original sample design with specific information of the industries and regions chosen is described in Appendix E.

4. Industry stratification was designed in the way that follows: the universe was stratified into one manufacturing industry, and two service industries (retail, and other services).

5. Size stratification was defined following the standardized definition for the rollout: small (5 to 19 employees), medium (20 to 99 employees), and large (more than 99 employees). For stratification 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 labor force since seasonal/casual/part-time employment is not a common practice, except in the sectors of construction and agriculture.

6. Regional stratification was defined in 4 regions (city and the surrounding business area) throughout Albania.

III. Sampling implementation

7. Given the stratified design, sample 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 the sample 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 below*).

8. IPSOS was hired to implement the Albania 2013 enterprise survey. There were local subcontractors in each of the 4 regions surveyed.

9. The sample frame used for the survey in Albania was from: Block enumeration. The database contained the following information

- Coverage;
- Up to datedness;- Availability of detailed stratification variables;
- Contact name(s).

Counts from the sample frame are shown below.

Sample Frame

Source: Block enumeration, 2013

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	26	25	59	110
	20-99	14	7	16	37
	100+	8	0	0	8
	Total	48	32	75	155
Elbasan and Korce	5-19	32	11	95	138
	20-99	8	0	5	13
	100+	1	0	0	1
	Total	41	11	100	152
Fier and Vlore	5-19	20	9	50	79
	20-99	14	0	4	18
	100+	2	0	2	4
	Total	36	9	56	101
Tirana	5-19	197	107	253	557
	20-99	55	20	45	120
	100+	11	0	5	16
	Total	263	127	303	693
Grand Total		388	179	534	1101

10. The enumerated establishments were then used as the frame for the selection of a sample with the aim of obtaining interviews at 360 establishments with five or more employees.

11. The quality of the frame was assessed at the onset of the project through visits to a random subset of firms and local contractor knowledge. The sample frame was not immune from the typical problems found in establishment surveys: positive rates of non-eligibility, repetition, non-existent units, etc.

12. Given the impact that non-eligible units included in the sample universe may have on the results, adjustments may be needed when computing the appropriate weights for individual observations. The percentage of confirmed non-eligible units as a proportion of the total number of sampled establishments contacted for the survey was 11.2% (50 out of 448 establishments)⁴. Breaking down by stratified industries, the following sample targets were achieved (using a4a and a6a):

⁴ Based on out of target contacts and impossible to contact establishments

Achieved sample:

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	6	18	8	32
	20-99	4	3	2	9
	100+	2	0	0	2
	Total	12	21	10	43
Elbasan and Korce	5-19	9	7	21	37
	20-99	2	0	2	4
	100+	1	0	0	1
	Total	12	7	23	42
Fier and Vlore	5-19	7	6	7	20
	20-99	5	0	1	6
	100+	1	0	1	2
	Total	13	6	9	28
Tirana	5-19	61	72	70	203
	20-99	17	14	6	37
	100+	5	0	2	7
	Total	83	86	78	247
Grand Total		120	120	120	360

IV. Data Base Structure:

13. The structure of the data base reflects the fact that 3 different versions of the questionnaire were used. The basic questionnaire, the Core Module, includes all common questions asked to all establishments from all sectors. The second expanded variation, the Manufacturing Questionnaire, is built upon the Core Module and adds some specific questions relevant to manufacturing sectors. The third expanded variation, the Retail Questionnaire, is also built upon the Core Module and adds to the core specific questions relevant to retail firms. Each variation of the questionnaire is identified by the index variable, *a0*.

14. 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 a prefix “ECA” indicate questions specific to the Eastern Europe and Central Asia region, therefore, they may not be found in the implementation of the rollout in other countries. All other suffixed variables are global and are present in all country surveys over the world. 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.

15. There are 2 establishment identifiers, *idstd* and *id*. The first is a global unique identifier. The second is a country unique identifier. The variables *a2* (sampling region),

a6a (sampling establishment's size), and *a4a* (sampling sector) contain the establishment's classification into the strata chosen for each country using information from the sample frame. The strata were defined according to the guidelines described above.

16. 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 *a4a* and *d1a2* (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 sample frame.

17. All of the following variables contain information from the sampling frame. They may not coincide with the reality of individual establishments as sample frames may contain inaccurate information. The variables containing the sample 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.

-*a2* 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 undetermined in the sample frame.

-*a4a*: coded using ISIC Rev 3.1 codes for the chosen industries for stratification. These codes include most manufacturing industries (15 to 37), retail (52), and (45, 50, 51, 55, 60-64, 72) for other services.

18. The surveys were implemented following a 2 stage procedure. Typically first a screener questionnaire is applied over the phone to determine eligibility and to make appointments. Then a face-to-face interview takes place with the Manager/Owner/Director of each establishment. The variables *a4b* and *a6b* contain the industry and size of the establishment from the screener questionnaire. Variables *a8* to *a11* contain additional information and were also collected in the screening phase.

19. Note that there are additional variables for location (*a3x*) and size (*l1*, *l6* and *l8*) that reflect more accurately the reality of each establishment. Advanced users are advised to use these variables for analytical purposes.

20. Variable *a3x* indicates the actual location of the establishment. There may be divergences between the location in the sampling frame and the actual location, as establishments may be listed in one place but the actual physical location is in another place.

21. Variables *l1*, *l6* and *l8* 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.

22. Variables *a17x* 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.

V. Universe Estimates

23. Universe estimates for the number of establishments in each cell in Albania were produced for the strict, median and weak eligibility definitions. The estimates were the multiple of the relative eligible proportions.

24. Appendix B shows the overall estimates of the numbers of establishments in Albania based on the sample frame.

25. For some establishments where 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), it is not possible to directly determine eligibility. Thus, different assumptions about the eligibility of establishments result in different adjustments to the universe cells and thus different sampling weights.

26. Three sets of assumptions on establishment eligibility are used to construct sample adjustments using the status code information.

27. 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*.

Strict eligibility = (Sum of the firms with codes 1,2,3,4,and16) / Total

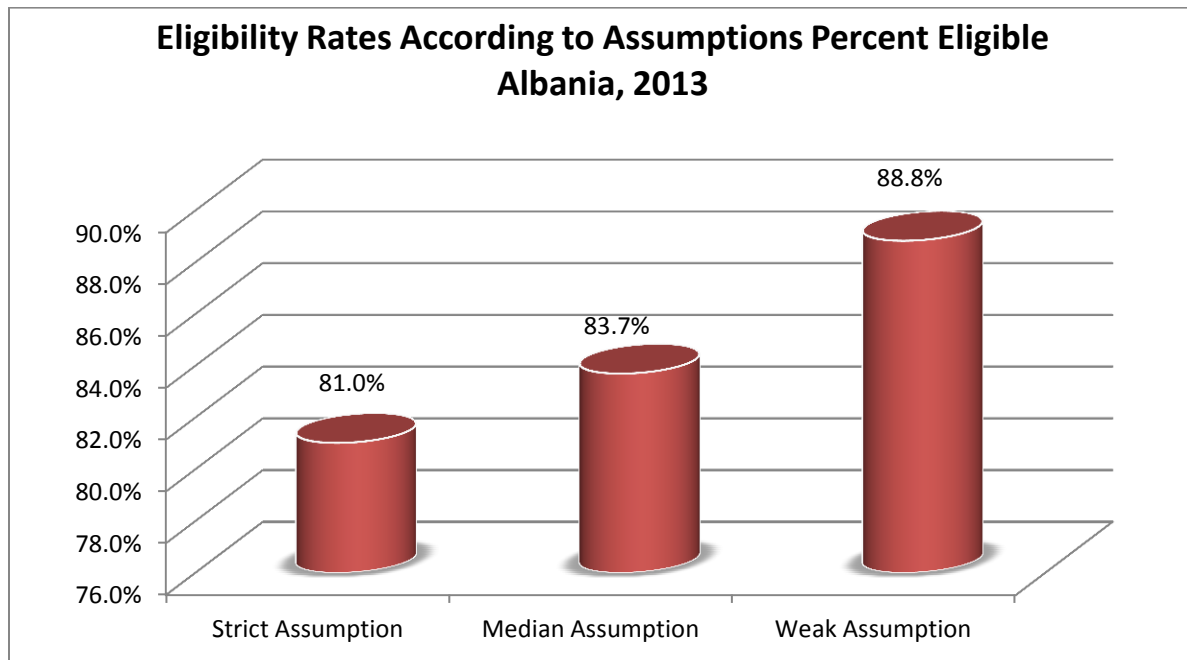
28. Median assumption: eligible establishments are those for which it was possible to directly determine eligibility and those that rejected the screener questionnaire or an answering machine or fax was the only response. The resulting weights are included in the variable *wmedian*.

Median eligibility = (Sum of the firms with codes 1,2,3,4,16,10,11, and 13) / Total

29. Weak assumption: in addition to the establishments included in points a and b, all establishments for which it was not possible to contact or that refused the screening questionnaire are assumed eligible. This definition includes as eligible 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. Under the weak assumption only observed non-eligible units are excluded from universe projections. The resulting weights are included in the variable *wweak*.

Weak eligibility= (Sum of the firms with codes 1,2,3,4,16,91,92,93,10,11,12,and13) / Total

30. The indicators computed for the Enterprise Survey website use the median weights. The following graph shows the different eligibility rates calculated for firms in the sample frame under each set of assumptions.



31. Universe estimates for the number of establishments in each industry-region-size cell in Albania were produced for the strict, weak and median eligibility definitions. Appendix D shows the universe estimates of the numbers of registered establishments that fit the criteria of the Enterprise Surveys.

32. Once an accurate estimate of the universe cell projection was made, weights for the probability of selection were computed using the number of completed interviews for each cell.

VI. Weights

33. 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).⁵

34. Special care was given to the correct computation of the weights. 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 businesses or was

⁵ This is equivalent to the weighted average of the estimates for each stratum, with weights equal to the population shares of each stratum.

unattainable, education or government establishments, establishments with less than 5 employees, no reply after having called in different days of the week and in different business hours, no tone on the phone line, answering machine, or fax line⁶, wrong address or moved away and could not get the new references). The information required for the adjustment was collected in the first stage of the implementation: 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.

35. Appendix C shows the cell weights for registered establishments in Albania.

VII. Appropriate use of the weights

36. 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.

37. However, there is some discussion as to the use of weights in regressions (see Deaton, 1997, pp.67; Lohr, 1999, chapter 11, Cochran, 1953, pp.150). There is not a strong large sample econometric argument in favor 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 the Enterprise Surveys as in most cases the objective is not only to obtain model-unbiased estimates but also design-unbiased estimates (see also Cochran, 1977, pp 200 who favors the used of weighted OLS for a common population coefficient.)⁷

38. From 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.⁸ If the models are developed as structural relationships or behavioral models that may vary for different parts of the population, then, there is no reason to use weights.

VIII. Non-response

39. 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

⁶ For the surveys that implemented a screener over the phone.

⁷ 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.

⁸ The use of weights in most model-assisted estimations using survey data is strongly recommended by the statisticians specialized on survey methodology of the JPSM of the University of Michigan and the University of Maryland.

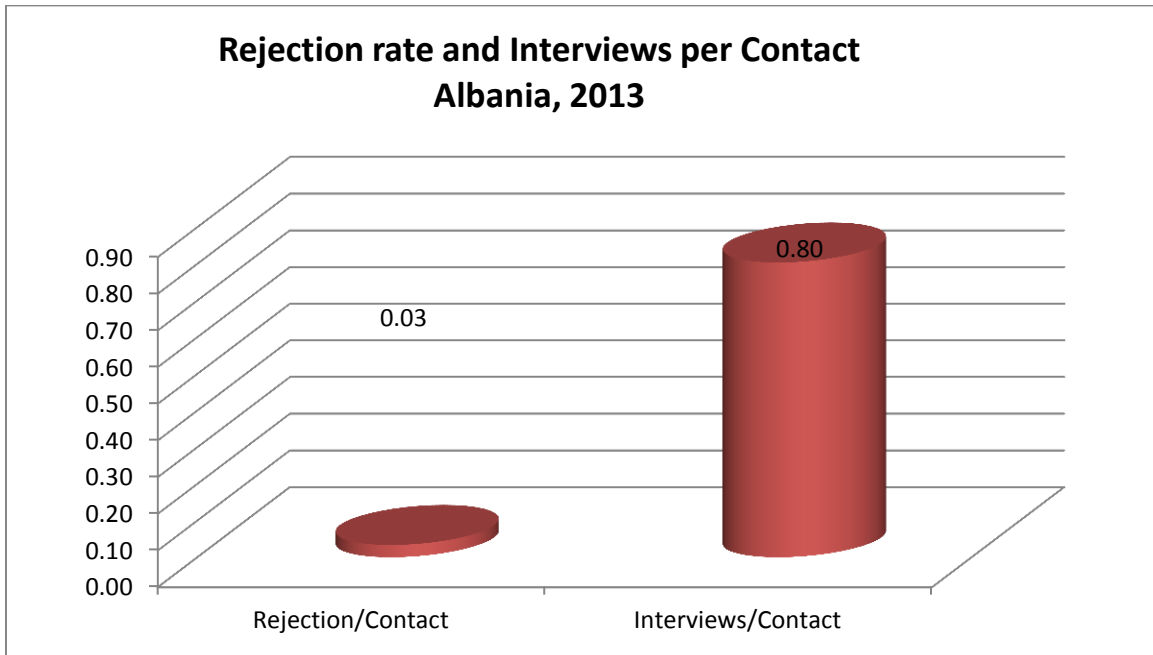
refusals to answer some specific questions. Enterprise Surveys suffer from both problems and different strategies were used to address these issues.

40. Item non-response was addressed by two strategies:
 - a- 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 a different option from don't know (-8).
 - b- Establishments with incomplete information were re-contacted in order to complete this information, whenever necessary. However, there were clear cases of low response. Non-response rates for the sales variable, *d2*, by sector, are zero (all respondents have provided sales information). Please, note that the coding utilized in this dataset does not allow us to differentiate between "Don't know" and "refuse to answer", thus the non-response in the chart below reflects both categories (DKs and NAs).

41. Survey non-response was addressed by maximizing efforts to contact establishments that were initially selected for interview. Attempts were made to contact the 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 the Enterprise Surveys regarding potential introduction of bias.

42. As the following graph shows, the number of realized interviews per contacted establishment was 0.80⁹. 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 0.03.

⁹ The estimate is based on the total number of firms contacted including ineligible establishments.



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

References:

Cochran, William G., Sampling Techniques, 1977.

Deaton, Angus, The Analysis of Household Surveys, 1998.

Levy, Paul S. and Stanley Lemeshow, Sampling of Populations: Methods and Applications, 1999.

Lohr, Sharon L. Sampling: Design and Techniques, 1999.

Scheaffer, Richard L.; Mendenhall, W.; Lyman, R., Elementary Survey Sampling, Fifth Edition, 1996.

Appendix A

Status Codes Total:

ELIGIBLES	
1. Eligible establishment (Correct name and address)	363
2. Eligible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment)	0
3. Eligible establishment (Different name but same address - the firm/establishment changed its name)	0
4. Eligible establishment (Wrong address - the firm/establishment 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	11
6. The firm discontinued businesses	29
7. Not a business: private household	0
8. Ineligible activity: education, agriculture, finances, governments...	10
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
91. No reply (<i>after having called in different days of the week and in different business hours</i>)	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	23
13. Refuses to answer the screener	12
14. In process (<i>the establishment is being called/ is being contacted - previous to ask the screener</i>)	0
Total	448

Response Outcomes Total:

Complete interviews (<i>Total</i>)	360
Incomplete interviews	0
Eligible in process	0
Refusals	0
Out of target	0
Impossible to contact	23
Ineligible - coop.	0
Refusal to the Screener	12
Total	448

Status Codes Fresh:

ELIGIBLES	
1. Eligible establishment (<i>Correct name and address</i>)	240
2. Eligible establishment (<i>Different name but same address - the new firm/establishment bought the original firm/establishment</i>)	0
3. Eligible establishment (<i>Different name but same address - the firm/establishment changed its name</i>)	0
4. Eligible establishment (<i>Wrong address - the firm/establishment has changed address and the address could be found</i>)	0
16. Panel firm - now less than five employees	0
5. The establishment has less than 5 permanent full time employees	10
6. The firm discontinued businesses	13
7. Not a business: private household	0
8. Ineligible activity: education, agriculture, finances, governments...	10
91. No reply (<i>after having called in different days of the week and in different business hours</i>)	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	2
13. Refuses to answer the screener	12
14. In process (<i>the establishment is being called/ is being contacted - previous to ask the screener</i>)	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	0
Total	287

Response Outcomes Fresh:

Complete interviews (<i>Total</i>)	240
Incomplete interviews	0
Eligible in process	0
Refusals	0
Out of target	0
Impossible to contact	2
Ineligible - coop.	0
Refusal to the Screener	12
Total	287

Status Codes Panel:

ELIGIBLES		
Eligible	1. Eligible establishment (<i>Correct name and address</i>)	123
	2. Eligible establishment (<i>Different name but same address - the new firm/establishment bought the original firm/establishment</i>)	0
	3. Eligible establishment (<i>Different name but same address - the firm/establishment changed its name</i>)	0
	4. Eligible establishment (<i>Wrong address - the firm/establishment has changed address and the address could be found</i>)	0
	16. Panel firm - now less than five employees	0
Ineligible	5. The establishment has less than 5 permanent full time employees	1
	6. The firm discontinued businesses	16
	7. Not a business: private household	0
	8. Ineligible activity: education, agriculture, finances, governments...	0
Unobtainable	91. No reply (<i>after having called in different days of the week and in different business hours</i>)	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	21
	13. Refuses to answer the screener	0
14. In process (<i>the establishment is being called/ is being contacted - previous to ask the screener</i>)		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		0
Total		161

Response Outcomes Panel:

Complete interviews (<i>Total</i>)	120
Incomplete interviews	0
Eligible in process	0
Refusals	3
Out of target	0
Impossible to contact	21
Ineligible - coop.	0
Refusal to the Screener	0
Total	161

Appendix B

Sampling Frame, Albania:

Source: Block enumeration, 2013

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	26	25	59	110
	20-99	14	7	16	37
	100+	8	0	0	8
	Total	48	32	75	155
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	20-99	8	0	5	13
	100+	1	0	0	1
	Total	41	11	100	152
Fier and Vlore	5-19	20	9	50	79
	20-99	14	0	4	18
	100+	2	0	2	4
	Total	36	9	56	101
Tirana	5-19	197	107	253	557
	20-99	55	20	45	120
	100+	11	0	5	16
	Total	263	127	303	693
Grand Total		388	179	534	1101

Appendix C

Albania, administrative divisions



Regions (official administrative counties)	Grouping used for stratification purposes in BEEPS V
Tirana (11)	Tirana
Durrës (3)	Durres
Elbasan (4)	Elbasan
Fier (5)	Fier
Vlorë (12)	Vlore

Appendix D

Strict Cell Weights Albania – Panel

Region	Employees	Manufacturing	Retail	Other Services
Durres and Shkoder	5-19			1.0
	20-99	1.0		1.0
	100+			
Elbasan and Korce	5-19	1.0		1.0
	20-99			1.1
	100+			
Fier and Vlore	5-19	1.3		1.0
	20-99	1.3		
	100+	1.0		
Tirana	5-19	1.1	1.3	1.0
	20-99	1.0	1.0	2.5
	100+	1.0		

Strict Cell Weights Albania – Fresh

Region	Employees	Manufacturing	Retail	Other Services
Durres and Shkoder	5-19	3.3	1.2	7.5
	20-99		1.9	
	100+	2.1		
Elbasan and Korce	5-19	2.8	1.2	3.5
	20-99	2.8		1.4
	100+	1.0		
Fier and Vlore	5-19	3.5	1.3	
	20-99	5.8		3.3
	100+			1.5
Tirana	5-19	3.4	1.3	5.0
	20-99	16.3	1.3	20.6
	100+	2.3		1.5

Median Cell Weights Albania – Panel

Region	Employees	Manufacturing	Retail	Other Services
Durres and Shkoder	5-19			1.0
	20-99	1.0		1.0
	100+			
Elbasan and Korce	5-19	1.0		1.0
	20-99			1.1
	100+			
Fier and Vlore	5-19	1.3		1.0
	20-99	1.3		
	100+	1.0		
Tirana	5-19	1.1	1.3	1.0
	20-99	1.0	1.0	2.5
	100+	1.0		

Median Cell Weights Albania – Fresh

Region	Employees	Manufacturing	Retail	Other Services
Durres and Shkoder	5-19	3.3	1.1	7.6
	20-99		1.8	
	100+	2.3		
Elbasan and Korce	5-19	3.2	1.3	3.9
	20-99	3.2		1.6
	100+	1.0		
Fier and Vlore	5-19	3.8	1.4	
	20-99	6.4		3.6
	100+			1.7
Tirana	5-19	3.5	1.3	5.2
	20-99	17.2	1.3	21.6
	100+	2.6		1.7

Weak Cell Weights Albania – Panel

Region	Employees	Manufacturing	Retail	Other Services
Durres and Shkoder	5-19			1.3
	20-99	1.1		1.3
	100+			
Elbasan and Korce	5-19	2.4		2.2
	20-99			2.4
	100+			
Fier and Vlore	5-19	1.3		1.0
	20-99	1.3		
	100+	1.0		
Tirana	5-19	1.3	1.4	1.0
	20-99	1.0	1.0	2.6
	100+	1.4		

Weak Cell Weights Albania – Fresh

Region	Employees	Manufacturing	Retail	Other Services
Durres and Shkoder	5-19	3.3	1.1	7.7
	20-99		1.8	
	100+	2.3		
Elbasan and Korce	5-19	3.3	1.4	4.2
	20-99	3.3		1.7
	100+	1.0		
Fier and Vlore	5-19	3.8	1.4	
	20-99	6.3		3.6
	100+			1.7
Tirana	5-19	3.5	1.3	5.3
	20-99	16.9	1.3	21.8
	100+	2.5		1.7

Appendix E

Strict Universe Estimates Albania – Panel

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	0	0	2	2
	20-99	4	0	2	6
	100+	0	0	0	0
	Total	4	0	4	8
Elbasan and Korce	5-19	1	0	2	3
	20-99	0	0	1	1
	100+	0	0	0	0
	Total	1	0	3	4
Fier and Vlore	5-19	4	0	7	11
	20-99	5	0	0	5
	100+	1	0	0	1
	Total	10	0	7	17
Tirana	5-19	17	25	32	74
	20-99	15	4	13	32
	100+	3	0	0	3
	Total	35	29	45	109
Grand Total		50	29	59	138

Strict Universe Estimates Albania – Fresh

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	20	21	45	86
	20-99	0	6	0	6
	100+	4	0	0	4
	Total	24	26	45	96
Elbasan and Korce	5-19	22	8	66	96
	20-99	6	0	1	7
	100+	1	0	0	1
	Total	29	8	67	104
Fier and Vlore	5-19	14	8	0	22
	20-99	6	0	3	9
	100+	0	0	1	1
	Total	20	8	5	33
Tirana	5-19	155	67	191	412
	20-99	33	13	21	66
	100+	5	0	3	7
	Total	192	80	214	486
Grand Total		264	123	332	718

Median Universe Estimates Albania – Panel

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	0	0	2	2
	20-99	4	0	2	6
	100+	0	0	0	0
	Total	4	0	4	8
Elbasan and Korce	5-19	1	0	2	3
	20-99	0	0	1	1
	100+	0	0	0	0
	Total	1	0	3	4
Fier and Vlore	5-19	4	0	7	11
	20-99	5	0	0	5
	100+	1	0	0	1
	Total	10	0	7	17
Tirana	5-19	17	25	32	74
	20-99	15	4	13	32
	100+	3	0	0	3
	Total	35	29	45	109
Grand Total		50	29	59	138

Median Universe Estimates Albania – Fresh

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	20	20	45	86
	20-99	0	5	0	5
	100+	5	0	0	5
	Total	24	26	45	96
Elbasan and Korce	5-19	25	9	75	109
	20-99	6	0	2	8
	100+	1	0	0	1
	Total	33	9	77	118
Fier and Vlore	5-19	15	8	0	24
	20-99	6	0	4	10
	100+	0	0	2	2
	Total	22	8	5	35
Tirana	5-19	163	68	199	430
	20-99	34	13	22	69
	100+	5	0	3	8
	Total	202	81	224	507
Grand Total		281	125	351	757

Weak Universe Estimates Albania – Panel

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	0	0	3	3
	20-99	4	0	3	7
	100+	0	0	0	0
	Total	4	0	5	10
Elbasan and Korce	5-19	2	0	4	7
	20-99	0	0	2	2
	100+	0	0	0	0
	Total	2	0	7	9
Fier and Vlore	5-19	4	0	7	11
	20-99	5	0	0	5
	100+	1	0	0	1
	Total	10	0	7	17
Tirana	5-19	19	26	32	78
	20-99	15	4	13	32
	100+	4	0	0	4
	Total	39	30	45	114
Grand Total		56	30	64	150

Weak Universe Estimates Albania – Fresh

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	20	20	46	86
	20-99	0	5	0	5
	100+	5	0	0	5
	Total	24	26	46	96
Elbasan and Korce	5-19	26	10	80	116
	20-99	7	0	2	8
	100+	1	0	0	1
	Total	34	10	82	125
Fier and Vlore	5-19	15	8	0	23
	20-99	6	0	4	10
	100+	0	0	2	2
	Total	21	8	5	35
Tirana	5-19	162	68	203	433
	20-99	34	13	22	68
	100+	5	0	3	8
	Total	201	81	228	509
Grand Total		280	124	362	766

Appendix F

Original Sample Design, Albania:

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Durres and Shkoder	5-19	6	17	8	31
	20-99	4	4	2	10
	100+	2	0	0	2
	Total	12	21	10	43
Elbasan and Korce	5-19	9	7	21	37
	20-99	2	0	2	4
	100+	1	0	0	1
	Total	12	7	23	42
Fier and Vlore	5-19	7	6	7	20
	20-99	5	0	1	6
	100+	1	0	1	2
	Total	13	6	9	28
Tirana	5-19	61	72	70	203
	20-99	17	14	6	37
	100+	5	0	2	7
	Total	83	86	78	247
Grand Total		120	120	120	360