

## The Mexico 2010 Enterprise Surveys Data Set

### I. Introduction

1. This document provides additional information on the data collected in Mexico between August 17th 2010 and June 30<sup>th</sup> 2011 as part of the Latin America and Caribbean (LAC) Enterprise Survey 2010, an initiative of the World Bank.

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 methodology, the sample 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 Mexico was selected using stratified random sampling, following the methodology explained in the *Sampling Note*<sup>1</sup>. Stratified random sampling<sup>2</sup> was preferred over simple random sampling for several reasons<sup>3</sup>:

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/locations.

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<sup>1</sup> The complete text can be found at [http://www.enterprisesurveys.org/documents/Implementation\\_note.pdf](http://www.enterprisesurveys.org/documents/Implementation_note.pdf)

<sup>2</sup> 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).

<sup>3</sup> 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 location. The original sample design with specific information of the industries and locations chosen is described in Appendix E.

4. Industry stratification was designed in the following way: the universe was stratified into seven manufacturing industries and one ‘other’ manufacturing category, – two services categories, retail and IT, and one ‘other’ services category. Each of the manufacturing categories had a target of 160 interviews; the ‘other’ manufacturing category and the three services categories all had targets of 120 interviews.

5. Size stratification was defined following the standardized definition for the Enterprise Surveys: 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.

The sample frame provided by the country’s statistical office did not include employee information exactly matching the Enterprise Survey categories. The details of selection are described below.

6. Regional stratification was defined in eight locations (city and the surrounding business area): Mexico City, Estado de Mexico (MAMC), Guadalajara, Monterrey, Puebla, Monclova, Veracruz, and Leon.

Ciudad Juarez and Coahuila, which were included in the 2006 round of the Enterprise Surveys was omitted in 2010 due to security concerns.

### **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 location) 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 Public Affairs was hired to implement the Mexico 2010 enterprise survey.

9. For Mexico, two sample frames were used. The first was supplied by the World Bank and consists of enterprises interviewed in Mexico 2006. The World Bank required that attempts should be made to re-interview establishments responding to the Mexico 2006 survey where they were within the selected geographical locations and met eligibility criteria. That sample is referred to as the Panel. The second sample frame was produced from the 2009 Economic Census of INEGI (Instituto Nacional de Geografía e Informática), the national bureau of statistics. The dataset contained the following information:

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

INEGI's database uses the SCIAN 2007 classification for economic activities while the Enterprise Surveys are based on the ISIC classification. Therefore, a conversion between the two classifications was made.

The following differences were found between the size classification used for the Enterprise Surveys and the one used by INEGI:

Enterprise Surveys' definition (number of employees)		INEGI's intervals (number of employees)
		0-5
Small	5-19	6-10
		11-30
Medium	20-99	31-50
		51-100
		101-250
Large	> 100	> 250

Due to confidentiality policies of the bureau of statistics, the exact number of employees each company was not disclosed; thus a new size classification was used:

	Number of employees
Small	6 to 10
Medium-small	11 to 30
Medium	31 to 100
Large	more than 101

For regional stratification, cities and their greater metropolitan areas were considered.

In the case of Mexico City and the Metropolitan Area of Mexico City (MAMC), it is important to consider that Mexico City refers only to the 16 boroughs in the Federal District, while the MAMC refers to municipalities in other states that are part of the Metropolitan Area of Mexico City.

Counts from sample frames are shown below.

## Panel Sample Counts

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Guadalajara	6 to 10	70	5	11	86
	11 to 30	53	6	7	66
	31 to 100	27	2	3	32
	100+	17	3	2	22
Total		167	16	23	206
MAMC	6 to 10	79	8	6	93
	11 to 30	39	1	9	103
	31 to 100	61	3	4	68
	100+	69	5	2	76
Total		302	17	21	340
México DF	6 to 10	111	5	24	140
	11 to 30	110	5	24	139
	31 to 100	75	5	13	93
	100+	61		10	71
Total		357	15	71	443
Monclova	6 to 10	6	4	4	14
	11 to 30	5	4	3	12
	31 to 100	1	2	3	6
	100+	2			2
Total		14	10	10	34
Monterrey	6 to 10	44	9	11	64
	11 to 30	39	2	8	49
	31 to 100	28		2	30
	100+	46	5	5	56
Total		157	16	26	199
Puebla	6 to 10	32	4	5	41
	11 to 30	36	5	9	50
	31 to 100	23	1	1	25
	100+	12	5	4	21
Total		103	15	19	137
Veracruz	6 to 10	9	5	5	19
	11 to 30	1	3	5	9
	31 to 100		2	3	5
	100+				
Total		10	10	13	33
Grand Total		1110	99	183	1392

## Fresh Sample Frame

Source: 2009 Economic Census, INEGI

Region	Employees	Manufacturing	Retail	Other Services	Grand Total
Guadalajara	6 to 10	158	11	25	194
	11 to 30	217	0	19	236
	31 to 100	218	6	24	248
	100+	224	26	66	316
Total		817	43	134	994
Leon	6 to 10	200	18	30	248
	11 to 30	184	19	36	239
	31 to 100	71	19	40	130
	100+	64	38	32	134
		519	94	138	751
MAMC	6 to 10	280	25	37	342
	11 to 30	247	27	49	323
	31 to 100	255	25	48	328
	100+	265	41	51	357
Total		1047	118	185	1351
México DF	6 to 10	222	26	32	280
	11 to 30	220	22	17	259
	31 to 100	236	20	17	273
	100+	272	45	55	372
Total		950	113	121	1184
Monclova	6 to 10	95	20	39	154
	11 to 30	69	30	36	135
	31 to 100	34	18	37	89
	100+	26	9	26	61
Total		224	77	138	439
Monterrey	6 to 10	183	11	22	216
	11 to 30	235	19	16	270
	31 to 100	252	19	25	296
	100+	236	40	75	351
Total		906	89	138	1133
Puebla	6 to 10	207	14	24	245
	11 to 30	232	9	32	273
	31 to 100	145	24	38	207
	100+	103	27	32	162
Total		687	74	126	887
Veracruz	6 to 10	111	32	38	181
	11 to 30	71	19	39	129
	31 to 100	19	22	47	88
	100+	10	26	36	72
Total		221	99	160	470
Grand Total		5361	707	1140	7209

10. The two sample frames were then used for the selection of a sample with the aim of obtaining interviews with 1,600 establishments with five or more employees.

11. The quality of the frame was assessed at the outset 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. In addition, the sample frame contains no telephone/fax numbers so the local contractor had to screen the contacts by visiting them. Due to response rate and ineligibility issues, additional sample had to be extracted by the World Bank in order to obtain enough eligible contacts and meet the sample targets.

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 12.55% (1079 out of 8600)<sup>4</sup>.

#### **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 (manufacturing, retail, and other services). 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 Services Questionnaire, 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, *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 “*LAC*” indicate questions specific to LAC, 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 location), *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 location. Different combinations of these variables generate the strata cells for each industry/location/size combination. A distinction should be made between the variable *a4a* and *d1a2* (industry

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<sup>4</sup> Based on out of target contacts and impossible to contact establishments

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 locations

-*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 codes for the chosen industries for stratification. These codes include most manufacturing industries (15 to 37), other manufacturing (2), retail (52), and (45, 50, 51, 55, 60, 63, 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. However, the phone numbers were unavailable in the sample frame, and thus the enumerators applied the screeners in person. 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 size by population (*a3*) and firm size by number of workers (*11*, *16* and *18*) that reflect more accurately the reality of each establishment. Advanced users are advised to use these variables for analytical purposes.

20. Variables *11*, *16* and *18* 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.

21. 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**

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

23. Appendix B shows the overall estimates of the numbers of establishments in Mexico based on the sample frame.



24. 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.

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

26. Strict assumption: eligible establishments are only those for which it was possible to directly determine eligibility. The resulting weights, which include adjustments applied to panel firms (see below), are included in the variable *w\_strict\_panadj*.

Strict eligibility = (Sum of the firms with codes 1,2,3,4,&16) / Total

27. 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 *w\_median\_panadj*.

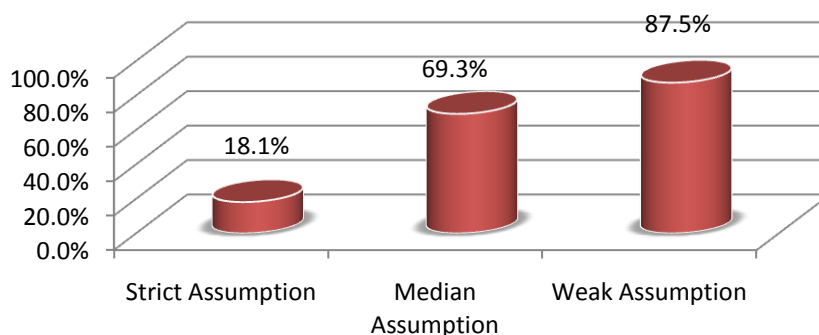
Median eligibility = (Sum of the firms with codes 1,2,3,4,16,10,11, & 13) / Total

28. 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 *w\_weak\_panadj*.

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

29. 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.

## Eligibility Rates According to Assumptions Percent Eligible Mexico, 2011



30. Universe estimates for the number of establishments in each industry-location-size cell in Mexico 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.

31. 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

32. 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.)<sup>5</sup>

33. Special care was given to the correct computation of the weights. It was imperative to accurately adjust the totals within each location/industry/size stratum to account for the presence of ineligible units (the firm discontinued business or was 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 in the phone line, answering machine, fax line<sup>6</sup>, wrong address or moved away and could not get the new references) The information required for the

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

<sup>6</sup> For the surveys that implemented a screener over the phone.

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.

The selection of panel firms required additional adjustments to account for varying probabilities of selection between fresh and panel sample universes. For additional information on this methodology, please refer to Enterprise Survey documentation of weighting methodology.

34. Appendix C shows the cell weights for registered establishments in Mexico.

## **VII. Appropriate use of the weights**

35. 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.

36. 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 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 use of weighted OLS for a common population coefficient.)<sup>7</sup>

37. 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.<sup>8</sup> 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**

38. 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

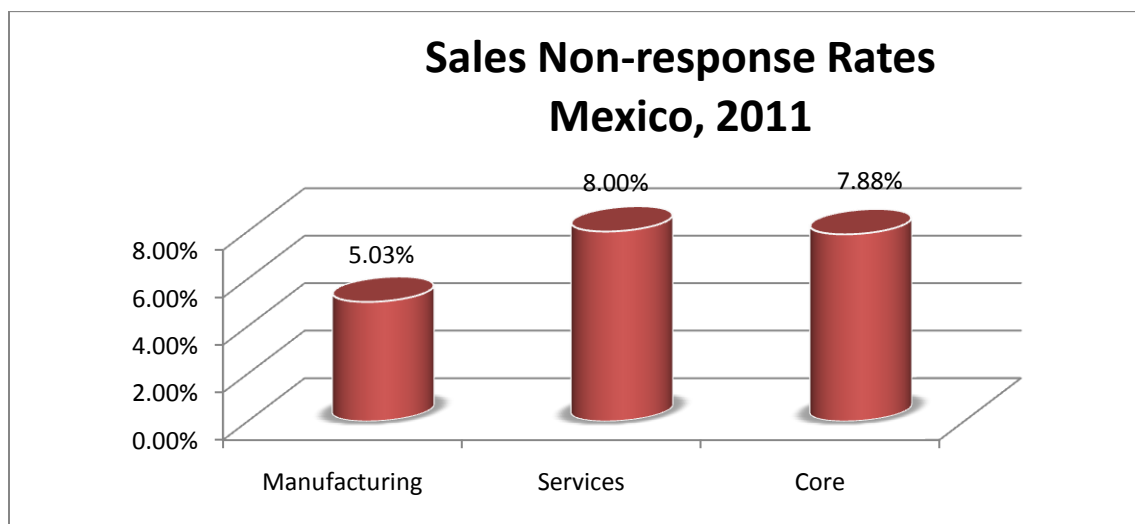
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<sup>7</sup> Note that weighted OLS in Stata using the command `regress` with the option of weights will estimate wrong standard errors. Using the Stata survey specific commands `svy` will provide appropriate standard errors.

<sup>8</sup> The use 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.

39. 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 (-7).
  - b- Establishments with incomplete information were re-contacted in order to complete this information, whenever necessary. However, there were clear cases of low response. The following graph shows non-response rates for the sales variable, *d2*, by sector. 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).

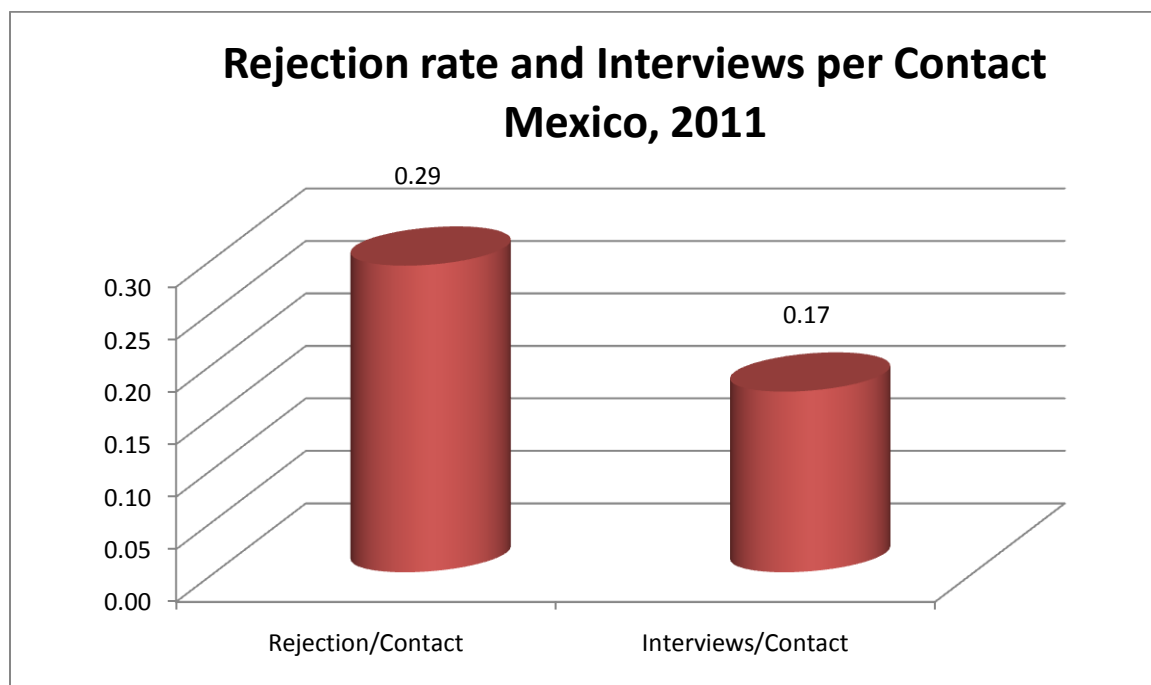


40. Survey non-response was addressed by maximizing efforts to contact establishments that were initially selected for interview. Attempts were made to contact the establishment for interview at different times/days of the week before a replacement establishment (with similar strata characteristics) 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.

41. As the following graph shows, the number of realized interviews per contacted establishment was .17<sup>9</sup>. 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 .29.

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<sup>9</sup> The estimate is based on the total no. of firms contacted including ineligible establishments.



42. Details on the rejection rate, eligibility rate, and item non-response are available at the level strata. 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 Mexico. All enterprise surveys suffer from these shortcomings, but in very few cases they have been made explicit.

#### **References:**

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

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## Appendix A

### Status Codes Fresh:

Eligibles	1. Eligible establishment (Correct name and address)	1293
	2. Eligible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment)	32
	3. Eligible establishment (Different name but same address - the firm/establishment changed its name)	7
	4. Eligible establishment (Wrong address - the firm/establishment has changed address and the address could be found)	0
Ineligibles	5. The establishment has less than 5 permanent full time employees	146
	6. The firm discontinued businesses	242
	7. Not a business: private household	145
	8. Ineligible activity: education, agriculture, finances, governments...	177
Unobtainable	91. No reply (after having called in different days of the week and in different business hours)	108
	92. Line out of order	40
	93. No tone	2
	94. Phone number does not exist	272
	10. Answering machine	36
	11. Fax line - data line	7
	12. Wrong address/ moved away and could not get the new references	677
	13. Refuses to answer the screener	2184
	14. In process (the establishment is being called/ is being contacted - previous to ask the screener)	1655
	151. Out of target - outside the covered regions, firm moved abroad	187
	152. Out of target - firm moved abroad	0
	152. Out of target - Not registered with SAT	0
	Total	7210

### Response Outcomes Fresh:

	Mexico
<b>Sample Target</b>	<b>1497</b>
Complete interviews ( <b>Total</b> )	1270
Incomplete interviews	41
Elegible in process	21
Refusals	0
Out of target	710
Impossible to contact	1142
Ineligible - coop.	187
Refusal to the Screener	2184
<b>Total</b>	<b>5555</b>

### Status Codes Panel:

<b>Eligibles</b>	1. Eligible establishment (Correct name and address)	211
	2. Eligible establishment (Different name but same address - the new firm/establishment bought the original firm/establishment)	11
	3. Eligible establishment (Different name but same address - the firm/establishment changed its name)	6
	4. Eligible establishment (Wrong address - the firm/establishment has changed address and the address could be found)	0
<b>Ineligibles</b>	5. The establishment has less than 5 permanent full time employees	1
	616. The firm discontinued business - (Establishment went bankrupt)	6
	618. The firm discontinued business - (Original establishment disappeared and is now a different firm)	9
	619. The firm discontinued business - (Establishment was bought out by another firm)	0
	620. The firm discontinued business - (It was impossible to determine for whatever reason)	33
	621. The firm discontinued business - (Other: SPECIFY in COMMENTS)	6
	7. Not a business: private household	101
	8. Ineligible activity: education, agriculture, finances, governments...	13
<b>Unobtainable</b>	91. No reply ( <i>after having called in different days of the week and in different business hours</i> )	39
	92. Line out of order	41
	93. No tone	3
	94. Phone number does not exist	149
	10. Answering machine	11
	11. Fax line - data line	8
	12. Wrong address/ moved away and could not get the new references	227
	13. Refuses to answer the screener	319
	<b>14. In process</b> ( <i>the establishment is being called/ is being contacted - previous to ask the screener</i> )	<b>183</b>
	151. Out of target - outside the covered regions, firm moved abroad	12
	152. Out of target - firm moved abroad	1
	152. Out of target - Not registered with SAT	0
	<b>Total</b>	<b>1390</b>

### Response Outcomes Panel:

<b>Sample Target</b>	<b>734</b>
Complete interviews ( <b>Total</b> )	210
Incomplete interviews	6
Elegible in process	3
Refusals	9
Out of target	169

Impossible to contact	478
Ineligible - coop.	13
Refusal to the Screener	319
<b>Total</b>	<b>1207</b>



## Appendix B

### Universe Estimate, Mexico:

Universe

Source: INEGI

	Row Labels	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERVICES
GUADALAJARA	Small 6-10	608	133	81	124	377	66	235	940	3640	662	4346
	Medium-Small 11-30	238	125	80	153	222	71	169	690	1344	476	2732
	Medium 31-100	73	52	52	68	62	20	67	255	243	119	937
	Large >101	75	7	44	54	36	8	18	175	120	39	333
LEON	Small 6-10	180	38	21	83	108	28	35	868	1000	189	1315
	Medium-Small 11-30	66	30	29	93	50	23	16	710	371	127	839
	Medium 31-100	10	6	9	57	7	8	0	308	71	30	287
	Large >101	11	1	2	24	5	0	0	150	45	14	106
MAMC	Small 6-10	895	397	100	134	366	40	200	692	3216	431	4280
	Medium-Small 11-30	263	198	108	113	214	53	101	426	1119	257	2138
	Medium 31-100	93	74	74	84	107	35	46	222	330	86	828
	Large >101	68	39	70	90	52	22	23	292	272	29	369
MEXICO D.F.	Small 6-10	690	264	110	153	420	77	237	1158	6342	2461	8472
	Medium-Small 11-30	403	239	146	215	300	86	207	801	2614	2086	5194
	Medium 31-100	161	181	107	121	122	37	75	386	711	777	2479
	Large >101	86	56	130	55	40	12	26	253	343	343	915
MONCLOVA/FRONTERA	Small 6-10	31	5	1	2	39	0	7	24	236	35	254
	Medium-Small 11-30	6	2	2	0	39	3	1	21	73	22	189
	Medium 31-100	5	0	1	3	15	2	1	11	18	9	69
	Large >101	0	1	0	0	5	4	0	17	9	2	26
MONTERREY	Small 6-10	346	74	63	71	425	51	154	423	2620	663	3563

	Medium-Small 11-30	154	76	59	98	363	63	122	384	1138	516	2760
	Medium 31-100	68	36	49	64	144	38	47	214	315	176	1160
	Large >101	55	19	37	45	55	43	15	242	189	61	383
PUEBLA	Small 6-10	247	119	15	21	138	8	71	616	1180	327	1857
	Medium-Small 11-30	51	74	23	19	69	18	41	212	517	178	1051
	Medium 31-100	29	42	8	14	15	8	12	113	143	57	371
	Large >101	14	14	10	20	7	6	5	105	64	11	101
VERACRUZ	Small 6-10	49	14	3	3	49	2	9	61	592	149	985
	Medium-Small 11-30	26	4	0	4	15	2	2	35	278	95	650
	Medium 31-100	8	0	2	2	8	0	0	3	74	32	221
	Large >101	7	0	0	2	2	1	0	3	32	6	83

## Appendix C

### Fresh - Strict Cell Weights Mexico:

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	Total
GUADALAJARA												
1-Small 6-10	38.00	4.75	3.86	5.64	26.93	2.28	9.40	313.33	330.91	66.20	337.05	75.69
2-Medium-Small 11-30	14.88	3.05	2.76	4.94	12.33	1.82	5.28			36.62	337.05	14.24
3-Medium 31-100	5.21	1.30	1.16	2.13	4.13	1.11	1.52	25.50	40.50	13.22	62.47	9.43
4-Large >101	1.34		1.14	1.56	1.09	1.25	1.00	11.67	4.62	1.05	13.12	3.35
LEON												
1-Small 6-10	10.59	1.03	1.00	2.37	6.00	1.00	1.00	96.44	55.56	21.00	59.83	15.67
2-Medium-Small 11-30	2.64	1.00	1.00	3.58	2.27	1.00	1.00	54.62	19.53	6.05	59.83	8.62
3-Medium 31-100		1.00	1.00	2.48	1.00	1.00		34.22	3.74	1.43	15.11	8.05
4-Large >101	1.00			1.00	1.00			6.25	3.95	1.00	5.89	3.21
MAMC												
1-Small 6-10	42.62	10.73	2.04	2.44	13.56	1.74	4.21		128.64	33.15	142.62	25.17
2-Medium-Small 11-30	17.53	7.33	2.16	2.26	17.83	1.33	2.24	53.25		9.18	142.62	18.30
3-Medium 31-100	3.44	2.18	1.85	1.91	3.96	1.03	1.00		13.20	2.87	46.00	4.94
4-Large >101	2.06	1.18	1.84	2.79	1.19	1.22	1.13	19.47	11.28	1.00	16.77	4.28
MEXICO D.F.												
1-Small 6-10	26.54	7.14	4.23	5.88	17.50	2.66	4.94	193.00	186.58	129.53	621.18	57.17
2-Medium-Small 11-30	22.39	6.83	4.29	5.12	15.79	3.31	5.45	100.13	186.58		621.18	66.67
3-Medium 31-100	6.71	6.70	11.89	3.56	3.59	1.00	1.25		35.55		275.44	20.53
4-Large >101	1.79	1.60	3.61	1.20	1.14	1.09	1.33	14.88	9.01	10.09	43.57	7.55
MONCLOVA/FRONTERA												
1-Small 6-10	1.11	1.00			1.00		1.00	1.50	11.80	1.17	28.22	5.03
2-Medium-Small 11-30	1.00				1.00	1.00		1.00	2.43	1.00		1.39
3-Medium 31-100	1.00				1.00				1.00	1.00	2.46	1.59
4-Large >101					1.00	1.00		1.00	1.00		1.00	1.00
MONTERREY												
1-Small 6-10		2.74	2.33	2.63	35.42	1.24	3.35		125.27	47.36	445.38	43.14
2-Medium-Small 11-30	10.27	1.77	2.27	3.38	14.52	1.17	2.84		125.27			12.03
3-Medium 31-100	2.52	1.00	1.69	1.33	5.33	1.00	1.00		16.58	22.00	68.24	4.55
4-Large >101	1.45	1.00	1.03	1.28	1.45	1.00	1.00		6.30	1.56	10.64	2.82
PUEBLA												
1-Small 6-10	10.29	3.50	1.00	1.00	4.31	1.00	1.18	47.38	84.29	29.73	142.85	25.59
2-Medium-Small 11-30	1.55	2.78	1.00	1.00	1.47	1.33	1.00	25.70	57.44	10.47	70.07	12.66
3-Medium 31-100	1.00	1.00	1.00	1.00	1.00	1.00	1.00	6.65	5.96	1.97	41.22	5.96
4-Large >101	1.00	1.00	1.00	1.00		1.00	1.00	3.89	16.59	1.00	4.81	2.79

VERACRUZ											
1-Small 6-10	2.45	1.00	1.00			1.00	2.35	18.50	7.10		6.35
2-Medium-Small 11-30	1.08	1.50		1.00			1.46	14.63		78.79	20.14
3-Medium 31-100	1.00				1.00			3.36	1.07	13.00	4.79
4-Large >101	1.00							2.05		2.77	2.26

Note: collapsed weights used in selected cases

### Panel – Average Strict Cell Weights

	15	18	24	25	28	29	36	Other Manuf	52	IT	Other Services
<b>Guadalajara</b>											
1-Small 6-10	1.00	1.00	1.00			1.00	1.00	1.00	1.00	1.00	1.00
2-Medium-Small 11-30	1.00					1.02		1.02	1.47		1.23
3-Medium 31-100	1.12	1.00	1.00			1.00		1.00	1.00	1.00	
4-Large >101			1.00					1.00			1.00
<b>México DF</b>											
1-Small 6-10	1.00	1.00				1.00		1.06			1.00
2-Medium-Small 11-30	1.00					1.15		1.06	1.00	1.00	
3-Medium 31-100	1.00	1.00	1.04			1.00		1.66	1.50	1.02	
4-Large >101	1.00	1.00	1.13			1.11		1.56		1.00	1.00
<b>Monclova</b>											
1-Small 6-10											
2-Medium-Small 11-30									1.00		
3-Medium 31-100									1.00		1.00
4-Large >101											
<b>Monterrey</b>											
1-Small 6-10	1.00	1.00	1.00			1.00		1.50	1.00	1.00	1.50
2-Medium-Small 11-30	1.00		1.00					1.33		1.03	1.16
3-Medium 31-100	1.00		1.00							1.00	
4-Large >101	1.00		1.00		1.00	1.00		1.57	1.00	1.00	
<b>Puebla</b>											
1-Small 6-10						1.00			1.00		
2-Medium-Small 11-30								1.04	1.00		
3-Medium 31-100											
4-Large >101								1.00	1.00		
<b>State of Mexico</b>											
1-Small 6-10			1.00			1.00		1.13			
2-Medium-Small 11-30	1.19	1.00				1.00		1.13			
3-Medium 31-100		1.00	1.00			2.00		1.11			
4-Large >101	1.00	2.00	2.00			1.00		1.11			1.00
<b>Veracruz</b>											
1-Small 6-10									1.00		
2-Medium-Small 11-30											
3-Medium 31-100									1.00		

# **Fresh - Weak Cell Weights Mexico:**

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV
GUADALAJARA											
1-Small 6-10	228.00	18.21	12.21	16.91	64.63	15.93	43.24	940.00	1213.33	331.00	1011.14
2-Medium-Small 11-30	55.78	13.34	7.97	21.15	74.00	7.10	47.53			109.85	1011.14
3-Medium 31-100	19.12	5.36	13.00	10.98	12.40	2.50	6.09	127.50	50.63	39.67	312.33
4-Large >101	4.33		5.29	3.84	3.18	1.75	1.78	21.67	27.69	3.79	41.01
LEON											
1-Small 6-10	45.88	3.72	8.00	10.84	20.40	3.00	3.50	120.56	259.26	47.25	418.83
2-Medium-Small 11-30	11.62	3.29	4.33	11.24	8.64	5.00	3.75	236.67	156.21	51.40	418.83
3-Medium 31-100		5.00	2.00	5.45	3.00	3.00		61.60	18.68	7.14	85.60
4-Large >101	1.60			2.30	2.00			23.96	10.26	3.50	13.25
MAMC											
1-Small 6-10	269.92	166.31	15.92	104.76	176.22	7.30	28.77		964.80	110.51	1212.29
2-Medium-Small 11-30	56.98	84.33	13.68	22.60	39.23	6.81	19.08	372.75		45.89	1212.29
3-Medium 31-100	22.39	13.06	7.40	12.73	14.15	5.32	4.56		138.60	15.77	260.67
4-Large >101	4.68	2.76	3.44	4.85	2.94	2.33	2.38	48.67	23.88	6.00	45.53
MEXICO D.F.											
1-Small 6-10	265.38	41.38	10.88	19.62	78.75	16.59	31.60	482.50	1243.89	1100.97	2640.02
2-Medium-Small 11-30	95.15	31.87	28.99	36.86	56.84	13.23	84.43	350.44	1243.89		2640.02
3-Medium 31-100	23.48	55.86	16.64	12.46	22.25	3.88	5.10		337.73		826.33
4-Large >101	6.48	5.28	24.56	4.78	2.79	2.73	7.33	50.60	29.80	53.80	108.93
MONCLOVA/FRONTERA											
1-Small 6-10	2.58	1.25			6.33		1.75	7.50	100.30	8.75	50.80
2-Medium-Small 11-30	1.50				6.50	3.00		5.25	11.36	22.00	
3-Medium 31-100	5.00				5.00				5.33	4.50	11.50
4-Large >101					5.00	2.00		8.00	8.00		26.00
MONTERREY											
1-Small 6-10		22.84	9.72	16.44	70.83	10.88	21.20		782.92	615.64	1336.13
2-Medium-Small 11-30	47.91	36.23	11.35	18.92	87.12	11.20	16.62		782.92		
3-Medium 31-100	32.74	3.40	7.43	10.44	69.33	5.43	10.75		232.11	88.00	1091.77
4-Large >101	12.66	4.25	3.88	10.99	4.46	10.75	5.00		19.43	11.89	74.47
PUEBLA											
1-Small 6-10	185.25	47.25	2.80	10.00	24.15	5.00	7.69	568.62	393.33	163.50	571.38
2-Medium-Small 11-30	14.94	28.68	6.33	3.60	17.25	5.00	39.00	64.24	258.50	55.84	525.50
3-Medium 31-100	4.83	6.17	8.00	12.00	15.00	2.67	6.00	56.50	68.52	26.53	123.67
4-Large >101	4.67	4.67	10.00	20.00		6.00	5.00	81.67	64.00	2.50	19.24
VERACRUZ											
1-Small 6-10	22.05	6.00	1.00				7.00	22.29	166.50	120.62	
2-Medium-Small 11-30	4.12	1.50		3.00				27.71	219.47		196.97
3-Medium 31-100	8.00				7.00				50.45	14.40	84.50
4-Large >101	6.00								4.72		15.49

Note: collapsed weights used in selected cases

**Panel – Average Weak Cell Weights**

Row Labels	15	18	24	25	28	29	36	Other Manuf	52	IT	Other Services
Guadalajara											
1-Small 6-10	9.00	3.00	2.00			2.67	1.00	11.50	2.00	4.00	3.00
2-Medium-Small 11-30	2.50					1.40		5.33	1.46		1.53
3-Medium 31-100	1.11	1.00	3.00			3.00		5.00	1.00	1.00	
4-Large >101			1.50					3.00			2.00
México DF											
1-Small 6-10	9.00	17.00				4.75		5.50			4.00
2-Medium-Small 11-30	6.00					4.75		7.50	2.00	7.00	
3-Medium 31-100	8.00	9.00	2.50			7.00		4.28	2.00	3.00	
4-Large >101	3.00	2.33	2.00			2.50		8.00		1.50	1.00
Monclova											
1-Small 6-10											
2-Medium-Small 11-30									3.00		
3-Medium 31-100									2.00		2.00
4-Large >101											
Monterrey											
1-Small 6-10	2.00	2.00	5.00			3.00		2.50	7.00	6.00	1.50
2-Medium-Small 11-30	1.67		6.00					5.00		2.00	1.15
3-Medium 31-100	2.00		2.00							1.00	
4-Large >101	2.33		1.50		1.00	2.00		3.15	2.50	2.00	
Puebla											
1-Small 6-10						4.00			3.00		
2-Medium-Small 11-30								8.50	4.00		
3-Medium 31-100											
4-Large >101								3.50	2.00		
State of Mexico											
1-Small 6-10			8.00			3.33		11.50			
2-Medium-Small 11-30	3.50	18.00				9.00		12.00			
3-Medium 31-100		4.00	3.33			10.00		2.80			
4-Large >101	2.67	5.00	8.00			9.00		3.33			1.00
Veracruz											
1-Small 6-10									4.00		
2-Medium-Small 11-30											
3-Medium 31-100									2.00		

# **Fresh - Median Cell Weights Mexico:**

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV
<b>GUADALAJARA</b>											
1-Small 6-10	190.00	13.46	10.93	16.10	59.24	12.52	30.08	940.00	1103.03	264.80	954.97
2-Medium-Small 11-30	40.91	11.81	7.66	19.04	61.67	6.37	33.45			73.23	954.97
3-Medium 31-100	13.90	4.55	9.82	9.92	11.57	2.36	5.33	127.50	50.63	35.26	291.51
4-Large >101	4.22		4.86	3.84	3.18	1.75	1.56	18.33	26.15	3.79	37.73
<b>LEON</b>											
1-Small 6-10	45.88	3.08	6.50	9.15	18.00	2.78	2.88	120.56	240.74	36.75	373.96
2-Medium-Small 11-30	10.56	3.14	4.00	9.71	6.82	4.50	2.75	236.67	146.45	45.36	373.96
3-Medium 31-100		4.00	2.00	5.20	3.00	3.00		54.76	17.44	7.14	75.53
4-Large >101	1.40			2.10	1.50			20.83	8.29	3.00	11.04
<b>MAMC</b>											
1-Small 6-10	99.44	42.92	8.98	51.16	81.33	5.57	12.63		707.52	77.36	713.11
2-Medium-Small 11-30	43.83	33.00	9.00	14.69	28.53	4.73	15.71	213.00		32.13	713.11
3-Medium 31-100	17.22	9.58	6.78	10.50	9.62	4.98	3.89		105.60	10.03	138.00
4-Large >101	4.31	2.29	3.20	4.71	2.81	1.89	2.25	48.67	19.90	4.33	40.73
<b>MEXICO D.F.</b>											
1-Small 6-10	185.77	21.41	8.46	13.73	48.13	13.28	17.78	289.50	1057.31	841.92	2174.14
2-Medium-Small 11-30	83.96	26.18	22.54	29.69	47.37	12.68	57.20	250.31	1057.31		2174.14
3-Medium 31-100	16.77	42.46	14.27	10.68	19.38	3.63	4.62		248.85		734.52
4-Large >101	5.38	4.80	20.94	4.57	2.57	2.73	6.00	44.65	25.64	47.08	87.14
<b>MONCLOVA/FRONTERA</b>											
1-Small 6-10	2.58	1.25			6.00		1.75	7.50	100.30	8.46	50.80
2-Medium-Small 11-30	1.50				6.50	3.00		5.00	11.36	22.00	
3-Medium 31-100	5.00				5.00				5.33	4.50	10.68
4-Large >101					4.00	2.00		8.00	8.00		26.00
<b>MONTERREY</b>											
1-Small 6-10		18.27	8.17	11.18	70.83	8.40	13.95		626.33	331.50	1336.13
2-Medium-Small 11-30	47.91	27.40	9.53	15.54	68.97	9.10	13.78		626.33		
3-Medium 31-100	25.19	3.20	6.42	9.78	56.00	5.14	10.25		182.37	77.00	1023.53
4-Large >101	11.22	3.50	3.54	10.23	4.34	9.75	3.67		18.90	10.01	70.22
<b>PUEBLA</b>											
1-Small 6-10	92.63	17.50	2.20	4.50	18.98	4.00	4.73	379.08	252.86	118.91	380.92
2-Medium-Small 11-30	10.30	22.20	5.33	3.20	11.38	4.33	26.00	44.97	258.50	45.37	420.40
3-Medium 31-100	4.17	4.17	7.00	9.00	12.00	2.67	4.50	46.53	65.54	23.59	109.93
4-Large >101	4.67	4.33	10.00	18.00		5.00	5.00	73.89	56.89	2.50	14.43
<b>VERACRUZ</b>											
1-Small 6-10	15.93	5.50	1.00				6.00	12.90	135.67	99.33	
2-Medium-Small 11-30	3.03	1.50		3.00				20.42	160.95		157.58
3-Medium 31-100	7.00				5.00				47.09	11.73	65.00
4-Large >101	4.00								4.72		13.83

Note: collapsed weights used in selected cases



**Panel – Average Median Cell Weights**

Row Labels	15	18	24	25	28	29	36	Other Manuf	52	IT	Other Services
Guadalajara											
1-Small 6-10	3.00	2.00	2.00			1.67	1.00	4.50	1.00	2.00	3.00
2-Medium-Small 11-30	2.00					1.20		3.00	1.45		1.53
3-Medium 31-100	1.11	1.00	1.50			1.00		2.00	1.00	1.00	
4-Large >101			1.50					1.00			1.00
México DF											
1-Small 6-10	5.00	10.00				3.25		2.17			2.00
2-Medium-Small 11-30	4.00					2.75		3.25	1.00	3.67	
3-Medium 31-100	4.00	4.00	1.50			4.00		3.10	1.50	2.00	
4-Large >101	2.50	1.00	1.63			1.50		5.00		1.25	1.00
Monclova											
1-Small 6-10											
2-Medium-Small 11-30									3.00		
3-Medium 31-100									2.00		2.00
4-Large >101											
Monterrey											
1-Small 6-10	1.00	1.50	3.00			3.00		1.67	5.00	2.00	1.50
2-Medium-Small 11-30	1.00		3.00					4.00		1.50	1.15
3-Medium 31-100	2.00		2.00							1.00	
4-Large >101	1.33		1.50		1.00	2.00		2.76	2.50	1.00	
Puebla											
1-Small 6-10						1.00			1.00		
2-Medium-Small 11-30								1.04	2.00		
3-Medium 31-100											
4-Large >101								1.50	1.50		
State of Mexico											
1-Small 6-10			4.00			2.33		3.50			
2-Medium-Small 11-30	2.00	3.00				5.00		3.50			
3-Medium 31-100		1.00	3.33			5.00		2.00			
4-Large >101	2.67	4.00	8.00			7.00		3.00			1.00
Veracruz											
1-Small 6-10									2.00		
2-Medium-Small 11-30											
3-Medium 31-100									1.00		

## Appendix D

### Strict Universe Estimates

Fresh

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	Total
GUADALAJARA	168.55	63.29	60.59	107.00	204.31	41.20	87.07	446.00	1168.57	323.80	2301.55	4971.94
1-Small 6-10	76.00	28.50	23.14	39.45	134.64	9.10	47.00	313.33	992.73	132.40	1685.24	3481.54
2-Medium-Small 11-30	59.50	24.39	24.83	34.55	37.00	18.21	15.84			146.46	337.05	697.82
3-Medium 31-100	15.64	10.40	4.62	12.75	20.67	8.89	15.23	51.00	162.00	39.67	187.40	528.26
4-Large >101	17.41		8.00	20.25	12.00	5.00	9.00	81.67	13.85	5.27	91.86	264.31
LEON	49.96	16.22	12.00	76.42	45.36	15.00	12.00	758.24	228.77	102.38	331.76	1648.11
1-Small 6-10	31.76	8.22	2.00	16.60	30.00	9.00	8.00	385.78	166.67	84.00	119.67	861.69
2-Medium-Small 11-30	13.20	7.00	6.00	25.04	11.36	4.00	4.00	163.85	39.05	12.10	119.67	405.26
3-Medium 31-100		1.00	4.00	24.78	2.00	2.00		171.11	11.21	4.29	45.32	265.71
4-Large >101	5.00			10.00	2.00			37.50	11.84	2.00	47.11	115.45
MAMC	234.43	62.40	74.81	70.43	149.46	35.15	48.03	170.05	396.46	150.64	825.90	2217.77
1-Small 6-10	127.86	21.46	10.20	2.44	13.56	8.70	21.05		257.28	99.46	142.62	704.62
2-Medium-Small 11-30	70.13	14.67	12.96	9.04	89.17	9.28	8.98	53.25		36.71	427.87	732.05
3-Medium 31-100	13.78	10.88	16.65	11.45	27.74	6.18	9.00		26.40	11.47	138.00	271.55
4-Large >101	22.67	15.39	35.00	47.50	19.00	11.00	9.00	116.80	112.78	3.00	117.41	509.55
MEXICO D.F.	204.38	112.76	120.68	102.53	182.89	42.83	55.83	660.66	1289.69	289.32	3659.63	6721.20
1-Small 6-10	53.08	35.68	29.62	35.31	70.00	10.62	24.69	386.00	932.92	259.05	621.18	2458.13
2-Medium-Small 11-30	89.56	40.97	17.18	25.60	78.95	19.85	10.89	200.25	186.58		1863.55	2533.37
3-Medium 31-100	40.25	20.11	59.44	28.47	17.94	8.00	16.25		71.10		826.33	1087.90
4-Large >101	21.50	16.00	14.44	13.15	16.00	4.36	4.00	74.41	99.09	30.26	348.57	641.80
MONCLOVA/FRONTERA	18.29	4.00			16.00	3.00	4.00	10.50	42.20	7.67	156.90	262.55
1-Small 6-10	13.29	4.00			6.00		4.00	4.50	23.60	4.67	141.11	201.16
2-Medium-Small 11-30	4.00				6.00	1.00		4.00	14.60	1.00		30.60
3-Medium 31-100	1.00				3.00				3.00	2.00	14.79	23.79
4-Large >101					1.00	2.00		2.00	1.00		1.00	7.00
MONTERREY	41.63	25.76	43.04	40.53	263.20	21.81	46.95		574.35	99.18	1012.18	2168.61
1-Small 6-10		8.22	14.00	10.52	177.08	4.98	20.09		250.53	47.36	890.75	1423.53
2-Medium-Small 11-30	30.80	3.53	11.35	16.90	58.08	5.83	19.86		250.53			396.88
3-Medium 31-100	5.04	10.00	8.45	8.00	10.67	7.00	4.00		16.58	44.00	68.24	181.97
4-Large >101	5.79	4.00	9.25	5.11	17.37	4.00	3.00		56.70	7.82	53.19	166.24
PUEBLA	23.93	21.55	10.00	9.00	28.43	9.00	13.47	141.66	396.26	98.80	716.39	1468.48
1-Small 6-10	10.29	7.00	5.00	2.00	21.56	1.00	9.47	47.38	252.86	59.45	428.54	844.56
2-Medium-Small 11-30	4.64	5.55	3.00	5.00	5.87	4.00	1.00	77.09	114.89	31.41	140.13	392.58
3-Medium 31-100	6.00	6.00	1.00	1.00	1.00	3.00	2.00	13.29	11.92	3.93	123.67	172.81
4-Large >101	3.00	3.00	1.00	1.00		1.00	1.00	3.89	16.59	4.00	24.05	58.53
VERACRUZ	12.32	5.00	1.00	1.00	1.00		1.00	6.15	85.80	9.23	276.20	398.70

1-Small 6-10	4.90	2.00	1.00				1.00	4.69	55.50	7.10		76.19
2-Medium-Small 11-30	5.42	3.00		1.00				1.46	14.63		236.36	261.87
3-Medium 31-100	1.00				1.00				3.36	2.13	26.00	33.50
4-Large >101	1.00								12.31		13.83	27.14
Total	753.49	310.98	322.13	406.91	890.66	167.98	268.35	2193.26	4182.10	1081.01	9280.50	19857.36

Panel

Row Labels	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	Total
Guadalajara	6.35	2.00	6.00			9.10	1.00	7.05	11.83	2.00	5.70	51.04
1-Small 6-10	1.00	1.00	2.00			3.00	1.00	2.00	2.00	1.00	1.00	14.00
2-Medium-Small 11-30	2.00					5.10		3.05	8.83		3.70	22.69
3-Medium 31-100	3.35	1.00	2.00			1.00		1.00	1.00	1.00		10.35
4-Large >101			2.00					1.00			1.00	4.00
México DF	5.00	5.00	15.23			11.83		20.35	4.00	9.05	2.00	72.47
1-Small 6-10	1.00	1.00				4.00		6.35			1.00	13.35
2-Medium-Small 11-30	1.00					4.61		4.23	1.00	3.00		13.85
3-Medium 31-100	1.00	1.00	6.23			1.00		6.65	3.00	2.05		20.93
4-Large >101	2.00	3.00	9.00			2.22		3.12		4.00	1.00	24.34
Monclova									2.00		1.00	3.00
1-Small 6-10												
2-Medium-Small 11-30									1.00			1.00
3-Medium 31-100									1.00		1.00	2.00
4-Large >101												
Monterrey	11.00	2.00	6.00		1.00	2.00		25.57	3.00	5.06	6.48	62.10
1-Small 6-10	4.00	2.00	1.00			1.00		9.00	1.00	1.00	3.00	22.00
2-Medium-Small 11-30	3.00		1.00					4.00		2.06	3.48	13.53
3-Medium 31-100	1.00		2.00							1.00		4.00
4-Large >101	3.00		2.00		1.00	1.00		12.57	2.00	1.00		22.57
Puebla						1.00		4.08	4.00			9.08
1-Small 6-10						1.00			1.00			2.00
2-Medium-Small 11-30								2.08	1.00			3.08
3-Medium 31-100												
4-Large >101								2.00	2.00			4.00
State of Mexico	5.38	4.00	6.00			7.00		13.40			1.00	36.78
1-Small 6-10			1.00			3.00		2.26				6.26
2-Medium-Small 11-30	2.38	1.00				1.00		2.26				6.65
3-Medium 31-100		1.00	3.00			2.00		5.53				11.53
4-Large >101	3.00	2.00	2.00			1.00		3.34			1.00	12.34
Veracruz									2			2
1-Small 6-10									1			1
2-Medium-Small 11-30												
3-Medium 31-100									1			1
Total	27.73	13.00	33.23		1.00	30.93	1.00	70.46	26.83	16.11	16.18	236.48

## Weak Universe Estimates

Fresh

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	Total
GUADALAJARA	792.73	258.86	234.01	382.25	642.14	161.72	435.70	1346.67	3925.58	1239.36	7290.93	16709.95
1-Small 6-10	456.00	109.25	73.29	118.36	323.14	63.72	216.20	940.00	3640.00	662.00	5055.72	11657.68
2-Medium-Small 11-30	223.13	106.71	71.72	148.06	222.00	71.00	142.59			439.38	1011.14	2435.74
3-Medium 31-100	57.36	42.90	52.00	65.88	62.00	20.00	60.91	255.00	202.50	119.00	937.00	1874.54
4-Large >101	56.25		37.00	49.95	35.00	7.00	16.00	151.67	83.08	18.97	287.07	741.99
LEON	203.73	57.78	50.00	232.10	155.18	53.00	43.00	1643.97	1177.04	320.24	2038.12	5974.17
1-Small 6-10	137.65	29.78	16.00	75.89	102.00	27.00	28.00	482.22	777.78	189.00	837.67	2702.98
2-Medium-Small 11-30	58.08	23.00	26.00	78.69	43.18	20.00	15.00	710.00	312.42	102.81	837.67	2226.85
3-Medium 31-100		5.00	8.00	54.52	6.00	6.00		308.00	56.05	21.43	256.79	721.79
4-Large >101	8.00			23.00	4.00			143.75	30.79	7.00	106.00	322.54
MAMC	1178.77	602.50	293.71	354.03	518.46	137.13	280.17	664.75	2445.63	596.18	5949.84	13021.16
1-Small 6-10	809.76	332.62	79.59	104.76	176.22	36.52	143.86		1929.60	331.54	1212.29	5156.77
2-Medium-Small 11-30	227.93	168.67	82.08	90.40	196.17	47.70	76.31	372.75		183.57	3636.87	5082.45
3-Medium 31-100	89.56	65.29	66.60	76.36	99.07	31.91	41.00		277.20	63.07	782.00	1592.07
4-Large >101	51.52	35.92	65.43	82.50	47.00	21.00	19.00	292.00	238.83	18.00	318.68	1189.88
MEXICO D.F.	1129.99	618.51	373.54	454.23	749.45	187.67	415.12	1918.88	8466.54	2363.36	13910.52	30587.80
1-Small 6-10	530.77	206.92	76.15	117.69	315.00	66.38	158.00	965.00	6219.45	2201.95	2640.02	13497.33
2-Medium-Small 11-30	380.61	191.20	115.94	184.29	284.21	79.38	168.87	700.88	1243.89		7920.07	11269.33
3-Medium 31-100	140.88	167.59	83.22	99.65	111.24	31.00	66.25		675.45		2479.00	3854.27
4-Large >101	77.73	52.80	98.22	52.61	39.00	10.91	22.00	253.00	327.76	161.41	871.43	1966.87
MONCLOVA/FRONTERA	42.00	5.00			97.00	7.00	7.00	59.50	292.73	66.00	349.00	925.23
1-Small 6-10	31.00	5.00			38.00		7.00	22.50	200.60	35.00	254.00	593.10
2-Medium-Small 11-30	6.00				39.00	3.00		21.00	68.13	22.00		159.13
3-Medium 31-100	5.00				15.00				16.00	9.00	69.00	114.00
4-Large >101					5.00	4.00		16.00	8.00		26.00	59.00
MONTERREY	259.87	191.98	187.18	267.01	894.87	180.54	301.54		3538.60	851.08	4136.38	10809.04
1-Small 6-10		68.52	58.33	65.74	354.17	43.54	127.22		1565.83	615.64	2672.25	5571.24
2-Medium-Small 11-30	143.73	72.47	56.73	94.62	348.48	56.00	116.33		1565.83			2454.19
3-Medium 31-100	65.48	34.00	37.17	62.67	138.67	38.00	43.00		232.11	176.00	1091.77	1918.86
4-Large >101	50.66	17.00	34.94	43.98	53.55	43.00	15.00		174.83	59.44	372.36	864.75
PUEBLA	273.07	202.85	51.00	70.00	204.75	34.00	117.53	956.01	1898.04	557.60	3232.34	7597.20
1-Small 6-10	185.25	94.50	14.00	20.00	120.75	5.00	61.53	568.62	1180.00	327.00	1714.15	4290.80
2-Medium-Small 11-30	44.82	57.35	19.00	18.00	69.00	15.00	39.00	192.73	517.00	167.53	1051.00	2190.42
3-Medium 31-100	29.00	37.00	8.00	12.00	15.00	8.00	12.00	113.00	137.04	53.07	371.00	795.11
4-Large >101	14.00	14.00	10.00	20.00		6.00	5.00	81.67	64.00	10.00	96.19	320.86
VERACRUZ	78.68	15.00	1.00	3.00	7.00		7.00	72.29	797.74	149.42	837.38	1968.50
1-Small 6-10	44.10	12.00	1.00				7.00	44.58	499.50	120.62		728.80
2-Medium-Small 11-30	20.58	3.00		3.00				27.71	219.47		590.91	864.67

3-Medium 31-100	8.00				7.00				50.45	28.80	169.00	263.25
4-Large >101	6.00								28.31		77.47	111.77
Total	3958.84	1952.49	1190.44	1762.62	3268.85	761.07	1607.07	6662.06	22541.89	6143.23	37744.50	87593.05

Panel

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	Total
Guadalajara	17.34	4.00	13.00			18.00	1.00	47.00	13.74	5.00	9.59	128.68
1-Small 6-10	9.00	3.00	4.00			8.00	1.00	23.00	4.00	4.00	3.00	59.00
2-Medium-Small 11-30	5.00					7.00		16.00	8.74		4.59	41.34
3-Medium 31-100	3.34	1.00	6.00			3.00		5.00	1.00	1.00		20.34
4-Large >101			3.00					3.00			2.00	8.00
México DF	29.00	33.00	31.00			50.00		96.11	6.00	33.00	5.00	283.11
1-Small 6-10	9.00	17.00				19.00		33.00			4.00	82.00
2-Medium-Small 11-30	6.00					19.00		30.00	2.00	21.00		78.00
3-Medium 31-100	8.00	9.00	15.00			7.00		17.11	4.00	6.00		66.11
4-Large >101	6.00	7.00	16.00			5.00		16.00		6.00	1.00	57.00
Monclova									5.00		2.00	7.00
1-Small 6-10												
2-Medium-Small 11-30									3.00			3.00
3-Medium 31-100									2.00		2.00	4.00
4-Large >101												
Monterrey	22.00	4.00	18.00		1.00	5.00		55.24	12.00	13.00	6.45	136.69
1-Small 6-10	8.00	4.00	5.00			3.00		15.00	7.00	6.00	3.00	51.00
2-Medium-Small 11-30	5.00		6.00					15.00		4.00	3.45	33.45
3-Medium 31-100	2.00		4.00							1.00		7.00
4-Large >101	7.00		3.00		1.00	2.00		25.24	5.00	2.00		45.24
Puebla						4.00		24.00	11.00			39.00
1-Small 6-10						4.00			3.00			7.00
2-Medium-Small 11-30								17.00	4.00			21.00
3-Medium 31-100												
4-Large >101								7.00	4.00			11.00
State of Mexico	15.00	27.00	26.00			38.00		71.00			1.00	178.00
1-Small 6-10			8.00			10.00		23.00				41.00
2-Medium-Small 11-30	7.00	18.00				9.00		24.00				58.00
3-Medium 31-100		4.00	10.00			10.00		14.00				38.00
4-Large >101	8.00	5.00	8.00			9.00		10.00			1.00	41.00
Veracruz									6			6
1-Small 6-10									4			4
2-Medium-Small 11-30												
3-Medium 31-100									2			2
Total	83.34	68.00	88.00		1.00	115.00	1.00	293.35	53.74	51.00	24.04	778.47

## Median Universe Estimates

Fresh

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	Total
GUADALAJARA	640.25	211.66	207.83	355.44	574.08	139.68	318.04	1323.33	3590.05	947.27	6868.45	15176.07
1-Small 6-10	380.00	80.75	65.57	112.73	296.21	50.07	150.40	940.00	3309.09	529.60	4774.84	10689.26
2-Medium-Small 11-30	163.63	94.51	68.97	133.26	185.00	63.72	100.34			292.92	954.97	2057.31
3-Medium 31-100	41.71	36.40	39.29	59.50	57.87	18.89	53.30	255.00	202.50	105.78	874.53	1744.77
4-Large >101	54.91		34.00	49.95	35.00	7.00	14.00	128.33	78.46	18.97	264.10	684.73
LEON	197.45	50.65	45.00	205.03	133.09	49.00	34.00	1591.00	1092.30	265.14	1810.75	5473.41
1-Small 6-10	137.65	24.65	13.00	64.03	90.00	25.00	23.00	482.22	722.22	147.00	747.92	2476.69
2-Medium-Small 11-30	52.80	22.00	24.00	67.96	34.09	18.00	11.00	710.00	292.89	90.71	747.92	2071.38
3-Medium 31-100		4.00	8.00	52.04	6.00	6.00		273.78	52.32	21.43	226.58	650.14
4-Large >101	7.00			21.00	3.00			125.00	24.87	6.00	88.33	275.20
MAMC	589.95	229.48	220.82	252.92	336.37	107.80	179.00	505.00	1825.26	413.71	3551.58	8211.91
1-Small 6-10	298.33	85.84	44.90	51.16	81.33	27.83	63.16		1415.04	232.08	713.11	3012.78
2-Medium-Small 11-30	175.33	66.00	54.00	58.76	142.67	33.13	62.84	213.00		128.50	2139.33	3073.56
3-Medium 31-100	68.89	47.88	61.05	63.00	67.37	29.85	35.00		211.20	40.13	414.00	1038.38
4-Large >101	47.39	29.76	60.87	80.00	45.00	17.00	18.00	292.00	199.02	13.00	285.14	1087.19
MEXICO D.F.	872.50	439.45	304.52	366.47	562.22	169.09	281.27	1302.86	7123.56	1825.08	11597.24	24844.26
1-Small 6-10	371.54	107.03	59.23	82.38	192.50	53.10	88.88	579.00	5286.53	1683.84	2174.14	10678.17
2-Medium-Small 11-30	335.83	157.06	90.18	148.45	236.84	76.08	114.39	500.63	1057.31		6522.41	9239.17
3-Medium 31-100	100.62	127.37	71.33	85.41	96.88	29.00	60.00		497.70		2203.56	3271.88
4-Large >101	64.50	48.00	83.78	50.22	36.00	10.91	18.00	223.24	282.02	141.24	697.14	1655.04
MONCLOVA/FRONTERA	42.00	5.00			94.00	7.00	7.00	58.50	292.73	64.83	344.07	915.14
1-Small 6-10	31.00	5.00			36.00		7.00	22.50	200.60	33.83	254.00	589.93
2-Medium-Small 11-30	6.00				39.00	3.00		20.00	68.13	22.00		158.13
3-Medium 31-100	5.00				15.00				16.00	9.00	64.07	109.07
4-Large >101					4.00	4.00		16.00	8.00		26.00	58.00
MONTERREY	238.97	155.61	160.62	222.00	794.15	154.09	232.16		2857.80	535.55	4046.86	9397.81
1-Small 6-10		54.81	49.00	44.70	354.17	33.59	83.70		1252.67	331.50	2672.25	4876.38
2-Medium-Small 11-30	143.73	54.79	47.65	77.72	275.88	45.50	96.47		1252.67			1994.41
3-Medium 31-100	50.37	32.00	32.10	58.67	112.00	36.00	41.00		182.37	154.00	1023.53	1722.04
4-Large >101	44.87	14.00	31.86	40.91	52.11	39.00	11.00		170.10	50.05	351.08	804.98
PUEBLA	162.53	117.40	44.00	52.00	152.39	30.00	77.87	680.93	1463.54	431.11	2385.49	5597.26
1-Small 6-10	92.63	35.00	11.00	9.00	94.88	4.00	37.87	379.08	758.57	237.82	1142.77	2802.60
2-Medium-Small 11-30	30.91	44.40	16.00	16.00	45.51	13.00	26.00	134.91	517.00	136.12	840.80	1820.65
3-Medium 31-100	25.00	25.00	7.00	9.00	12.00	8.00	9.00	93.06	131.08	47.17	329.78	696.09
4-Large >101	14.00	13.00	10.00	18.00		5.00	5.00	73.89	56.89	10.00	72.14	277.92
VERACRUZ	58.02	14.00	1.00	3.00	5.00		6.00	46.22	643.35	122.80	671.89	1571.28
1-Small 6-10	31.85	11.00	1.00				6.00	25.81	407.00	99.33		581.99
2-Medium-Small 11-30	15.17	3.00		3.00				20.42	160.95		472.73	675.26
3-Medium 31-100	7.00				5.00				47.09	23.47	130.00	212.56



4-Large >101	4.00								28.31		69.17	101.47
Total	2801.67	1223.25	983.78	1456.86	2651.30	656.65	1135.34	5507.85	18888.60	4605.50	31276.33	71187.14

Panel

Row Labels	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	Total
Guadalajara	10.34	3.00	10.00			12.00	1.00	21.00	11.72	3.00	8.59	80.65
1-Small 6-10	3.00	2.00	4.00			5.00	1.00	9.00	2.00	2.00	3.00	31.00
2-Medium-Small 11-30	4.00					6.00		9.00	8.72		4.59	32.31
3-Medium 31-100	3.34	1.00	3.00			1.00		2.00	1.00	1.00		12.34
4-Large >101			3.00					1.00			1.00	5.00
México DF	18.00	17.00	22.00			31.00		48.41	4.00	20.00	3.00	163.41
1-Small 6-10	5.00	10.00				13.00		13.00			2.00	43.00
2-Medium-Small 11-30	4.00					11.00		13.00	1.00	11.00		40.00
3-Medium 31-100	4.00	4.00	9.00			4.00		12.41	3.00	4.00		40.41
4-Large >101	5.00	3.00	13.00			3.00		10.00		5.00	1.00	40.00
Monclova									5.00		2.00	7.00
1-Small 6-10												
2-Medium-Small 11-30									3.00			3.00
3-Medium 31-100									2.00		2.00	4.00
4-Large >101												
Monterrey	13.00	3.00	13.00		1.00	5.00		44.08	10.00	7.00	6.45	102.53
1-Small 6-10	4.00	3.00	3.00			3.00		10.00	5.00	2.00	3.00	33.00
2-Medium-Small 11-30	3.00		3.00					12.00		3.00	3.45	24.45
3-Medium 31-100	2.00		4.00							1.00		7.00
4-Large >101	4.00		3.00		1.00	2.00		22.08	5.00	1.00		38.08
Puebla						1.00		5.07	6.00			12.07
1-Small 6-10						1.00			1.00			2.00
2-Medium-Small 11-30								2.07	2.00			4.07
3-Medium 31-100												
4-Large >101								3.00	3.00			6.00
State of Mexico	12.00	8.00	22.00			24.00		33.00			1.00	100.00
1-Small 6-10			4.00			7.00		7.00				18.00
2-Medium-Small 11-30	4.00	3.00				5.00		7.00				19.00
3-Medium 31-100		1.00	10.00			5.00		10.00				26.00
4-Large >101	8.00	4.00	8.00			7.00		9.00			1.00	37.00
Veracruz									3			3
1-Small 6-10									2			2
2-Medium-Small 11-30												
3-Medium 31-100									1			1
Total	53.34	31.00	67.00		1.00	73.00	1.00	151.56	39.72	30.00	21.04	468.66

## Appendix E

### Original Sample Design, Mexico:

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	TOTAL
<b>GUADALAJARA</b>	<b>24</b>	<b>24</b>	<b>31</b>	<b>25</b>	<b>23</b>	<b>28</b>	<b>28</b>	<b>15</b>	<b>14</b>	<b>16</b>	<b>15</b>	<b>243</b>
6 to 10	4	7	7	6	4	7	6	3	3	3	3	53
11 to 30	5	7	7	5	4	8	6	3	4	3	3	55
31 to 100	5	7	7	6	5	7	6	3	3	3	3	55
100+	10	3	10	8	10	6	10	6	4	7	6	80
<b>LEON</b>	<b>14</b>	<b>17</b>	<b>18</b>	<b>29</b>	<b>14</b>	<b>21</b>	<b>16</b>	<b>15</b>	<b>15</b>	<b>16</b>	<b>15</b>	<b>190</b>
6 to 10	3	7	6	7	4	7	8	3	3	3	3	54
11 to 30	3	7	6	6	4	7	8	3	3	3	3	53
31 to 100	3	3	6	7	3	7	0	3	3	3	3	41
100+	5	0	0	9	3	0	0	6	6	7	6	42
<b>MAMC</b>	<b>24</b>	<b>28</b>	<b>31</b>	<b>25</b>	<b>23</b>	<b>26</b>	<b>28</b>	<b>14</b>	<b>14</b>	<b>16</b>	<b>15</b>	<b>244</b>
6 to 10	4	6	7	6	4	7	6	3	3	3	3	52
11 to 30	5	6	7	5	4	7	6	3	3	3	3	52
31 to 100	5	6	7	6	5	6	6	3	3	3	3	53
100+	10	10	10	8	10	6	10	5	5	7	6	87
<b>MEXICO D.F.</b>	<b>24</b>	<b>28</b>	<b>30</b>	<b>25</b>	<b>24</b>	<b>24</b>	<b>28</b>	<b>15</b>	<b>15</b>	<b>16</b>	<b>15</b>	<b>244</b>
6 to 10	4	6	7	6	5	7	6	3	3	3	3	53
11 to 30	5	6	6	5	4	7	6	3	3	3	3	51
31 to 100	5	6	7	6	5	6	6	3	3	3	3	53
100+	10	10	10	8	10	4	10	6	6	7	6	87
<b>MONCLOVA</b>	<b>14</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>20</b>	<b>6</b>	<b>5</b>	<b>19</b>	<b>16</b>	<b>12</b>	<b>16</b>	<b>115</b>
6 to 10	6	4	0	0	6	0	5	4	3	3	3	34
11 to 30	4	0	0	0	5	3	0	4	3	5	3	27
31 to 100	4	0	0	3	6	0	0	5	5	4	3	30
100+	0	0	0	0	3	3	0	6	5	0	7	24
<b>MONTERREY</b>	<b>24</b>	<b>25</b>	<b>28</b>	<b>24</b>	<b>24</b>	<b>28</b>	<b>28</b>	<b>14</b>	<b>14</b>	<b>16</b>	<b>15</b>	<b>240</b>
6 to 10	4	6	6	5	4	7	6	6	3	3	3	53
11 to 30	5	6	6	5	5	7	6	3	3	3	3	52
31 to 100	5	5	6	6	5	6	6	0	3	3	3	48
100+	10	8	10	8	10	8	10	5	5	7	6	87
<b>PUEBLA</b>	<b>20</b>	<b>26</b>	<b>19</b>	<b>25</b>	<b>18</b>	<b>27</b>	<b>22</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>213</b>
6 to 10	4	6	4	5	4	7	6	3	3	3	3	48
11 to 30	5	6	5	5	5	8	7	3	3	3	3	53
31 to 100	5	6	4	7	5	6	6	3	3	3	3	51
100+	6	8	6	8	4	6	3	5	5	5	5	61
<b>VERACRUZ</b>	<b>16</b>	<b>8</b>	<b>3</b>	<b>4</b>	<b>14</b>	<b>0</b>	<b>5</b>	<b>14</b>	<b>18</b>	<b>14</b>	<b>15</b>	<b>111</b>
6 to 10	4	4	3	0	5	0	5	4	4	3	3	35
11 to 30	4	4	0	4	5	0	0	4	3	3	3	30
31 to 100	4	0	0	0	4	0	0	3	4	3	3	21
100+	4	0	0	0	0	0	0	3	7	5	6	25
<b>Grand Total</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>1600</b>

## Completed Interviews, Mexico:

	15	18	24	25	28	29	36	OTHER MANUF	52	72	OTHER SERV	TOTAL
<b>GUADALAJARA</b>	27	24	33	30	23	35	28	14	16	16	15	261
6 to 10	4	7	7	6	4	9	6	3	3	3	3	55
11 to 30	5	7	7	7	4	16	6	4	3	3	3	65
31 to 100	5	10	7	7	5	8	10	3	3	3	3	64
100+	13	0	12	10	10	2	6	4	7	7	6	77
<b>LEON</b>	14	17	15	32	14	14	14	15	12	17	15	179
6 to 10	3	8	3	7	5	8	10	3	3	3	3	56
11 to 30	7	8	9	6	6	4	4	3	3	3	3	56
31 to 100	0	1	3	11	1	2	0	3	4	5	3	33
100+	4	0	0	8	2	0	0	6	2	6	6	34
<b>MAMC</b>	24	28	36	32	28	32	32	14	20	18	15	279
6 to 10	4	6	10	8	4	9	10	3	3	3	3	63
11 to 30	5	6	7	7	4	9	6	3	5	3	3	58
31 to 100	5	7	7	7	5	7	11	3	7	4	3	66
100+	10	9	12	10	15	7	5	5	5	8	6	92
<b>MEXICO D.F.</b>	27	30	32	30	24	33	30	15	16	18	15	270
6 to 10	4	8	7	6	5	9	8	3	3	6	3	62
11 to 30	5	6	6	7	4	10	6	3	3	3	3	56
31 to 100	5	6	7	7	7	12	15	3	3	3	3	71
100+	13	10	12	10	8	2	1	6	7	6	6	81
<b>MONCLOVA</b>	14	4	0	0	20	1	1	16	12	12	16	96
6 to 10	11	4	0	0	10	0	1	3	9	4	6	48
11 to 30	2	0	0	0	9	1	0	6	3	6	3	30
31 to 100	1	0	0	0	1	0	0	6	0	1	5	14
100+	0	0	0	0	0	0	0	1	0	1	2	4
<b>MONTERREY</b>	24	27	34	27	24	39	28	14	16	17	15	265
6 to 10	4	6	9	5	4	7	9	3	3	6	3	59
11 to 30	5	6	6	5	5	10	9	3	3	3	3	58
31 to 100	5	12	7	7	5	11	9	3	3	0	3	65
100+	10	3	12	10	10	11	1	5	7	8	6	83
<b>PUEBLA</b>	20	26	10	9	18	6	27	14	14	14	14	172
6 to 10	4	6	4	4	8	1	15	3	3	3	3	54
11 to 30	5	6	5	4	9	2	10	3	3	3	3	53
31 to 100	8	11	1	0	1	2	1	3	5	3	3	38
100+	3	3	0	1	0	1	1	5	3	5	5	27
<b>VERACRUZ</b>	10	4	0	0	9	0	0	18	14	8	15	78
6 to 10	4	2	0	0	8	0	0	4	3	4	3	28
11 to 30	5	2	0	0	0	0	0	3	3	4	3	20
31 to 100	1	0	0	0	1	0	0	4	8	0	3	17
100+	0	0	0	0	0	0	0	7	0	0	6	13
<b>Grand Total</b>	160	160	160	160	160	160	160	120	120	120	120	1600

## Appendix F

### Local Agency team involved in the study:

### Sample Frame:

Characteristic of sample frame used:	The sample frame is based on Mexico's Industry Census from 2006 (Censo de Industrias de Mexico de 2006) and the list of firms registered in the Ministry of Justice and Work.
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### Sample:

Comments/ problems on sectors and regions selected in the sample:	<p>The dispersion of the sample in some regions affected productivity. This was particularly true for Puebla and Veracruz. Selected firms were highly dispersed and establishments' location information tended to be more inaccurate than in other places. Therefore contacting the firms was more costly than expected in terms of time and resources. This situation was aggravated by the fact that firms with no telephone had to be visited several times in order to get either an appointment or a refusal.</p> <p>Other specific issues by regions were:</p> <p><b>Guadalajara</b> High appointment cancelation rate, even when they were confirmed and the interviewer was already at the establishment Refuse to provide financial information Refuse to answer a supervision call, interviewees argued they had already given the information</p> <p><b>Mexico City</b> Some neighborhoods were insecure to work Security guards in medium and large firms prohibit access to the establishments</p> <p><b>MAMC</b> Some neighborhoods were insecure to work Security guards in medium and large firms prohibit access to the establishments</p> <p><b>Monterrey</b> Due to crime situation, interviewers distrust of surveys. Not answering surveys was claimed to be part of the firms' policies The target audience tend to be very busy and difficult to contact Respondents refuse to provide financial information Some neighborhoods were insecure to work</p> <p><b>Puebla</b> Incomplete addresses and wrong telephone numbers in the</p>
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	<p>sample</p> <p>High dispersion of the firms in the sample</p> <p><b>Leon</b></p> <p>Higher proportion of duplicated firms in the sample</p> <p>The vocabulary used in the questionnaire was difficult to understand</p> <p><b>Monclova</b></p> <p>Duration of the questionnaire</p> <p>Insecurity in fieldwork</p> <p>Respondents refuse to provide financial information</p> <p><b>Veracruz</b></p> <p>Incomplete addresses and wrong telephone numbers in the sample</p> <p>High dispersion of the firms in the sample</p> <p>Respondents refuse to provide financial information</p> <p>Floods in August</p>
Comments on the response rate:	<p>The main issue that affected the response rates was the insecurity and crime situation in the country. Another negative element was the fear of interviewees that data would be disclosed to fiscal and social security authorities. In some cases they refuse the complete interview, in others they just refuse to answer questions related with financial or employment issues. In addition, the floods in Veracruz in August 2010 contributed to lower the survey response rate.</p> <p>One difficulty in Mexico was also the high number of interviews classified as “in process since in Mexico it is culturally and socially unacceptable to say “no”, therefore many firms asked us to call them later instead of refusing to answer the interview.</p>

#### **Fieldwork:**

Date of Fieldwork	August 2010 – July 2011
Problems found during fieldwork:	Use of local WB contact improved response rates.

**Questionnaires:**

Problems for the understanding of questions (write question number)	Overall, the vocabulary used in the questionnaire was difficult to understand for some interviewees, especially for those working in small firms. In these cases, interviewers make use of the manuals and the glossary provided during the training in order to clarify confusing words
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