

ENTERPRISE SURVEYS

INDICATOR DESCRIPTIONS

May 2012



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ABOUT ENTERPRISE SURVEYS

The Enterprise Surveys focus on the many factors that shape the business environment. These factors can be accommodating or constraining for firms and play an important role in whether a country will prosper or not. An accommodating business environment is one that encourages firms to operate efficiently. Such conditions strengthen incentives for firms to innovate and to increase productivity—key factors for sustainable development. A more productive private sector, in turn, expands employment and contributes taxes necessary for public investment in health, education, and other services. In contrast, a poor business environment increases the obstacles to conducting business activities and decreases a country's prospects for reaching its potential in terms of employment, production, and welfare.

The Enterprise Surveys are conducted by the World Bank and its partners across all geographic regions and cover small, medium, and large companies. The surveys are administered to a representative sample of firms in the non agricultural formal private economy. The universe of the survey, also known as the population, is consistently defined in all countries and includes the entire manufacturing sector, the services sector, and the transportation and construction sectors. Public utilities, government services, health care, and financial services sectors are not included in the universe. Uniform universe, uniform methodology of implementation, and a core questionnaire are the basis of the Global methodology under which most Enterprise Surveys have been implemented since 2006. Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

The Enterprise Surveys collect a wide array of qualitative and quantitative information through face to face interviews with firm managers and owners regarding the business environment in their countries and the productivity of their firms. The topics covered in Enterprise Surveys include infrastructure, trade, finance, regulations, taxes and business licensing, corruption, crime and informality, finance, innovation, labor, and perceptions about obstacles to doing business.

The qualitative and quantitative data collected through the surveys connect a country's business environment characteristics with firm productivity and performance. The Enterprise Survey is useful for both policymakers and researchers. The surveys are repeated over time to track changes and benchmark the effects of reforms on firms' performance.

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Abbreviations

| | |
|-------|--|
| BEEPS | Enterprise Surveys implemented in Eastern Europe and Central Asian countries are also known as Business Environment and Enterprise Performance Surveys (BEEPS) and are jointly conducted by the World Bank and the European Bank for Reconstruction and Development. |
| ECA | Eastern European and Central Asia region |
| LAC | Latin America and the Caribbean region |
| EAP | East Asia and Pacific region |
| SAR | South Asia region |
| AFR | Africa region |
| MENA | Middle East and North Africa region |

Notes

* This indicator is computed using data from manufacturing firms only.

INTRODUCTION TO ES INDICATORS, BY SUBGROUP

In addition to country-level statistics, Enterprise Survey (ES) indicators are presented by subgroups based on firm characteristics. Indicators from surveys following the **Global** sampling methodology are representative at the country level. However, more care is necessary when interpreting indicators by subgroups.

In the figure below, the drop down menu on each country page allows the user to select how they wish to view an indicator. The user can view indicator values for the entire sample or by subgroups. Surveys following the **Global** methodology are stratified by business sector, location, and firm size. When analyzing ES indicators in these groupings, the results are representative of the associated populations¹. However, since the **Global** sampling methodology does not stratify by gender of the top manager, exporter status, or ownership (ex post groupings), the intended level of precision is not guaranteed for indicator values by these groupings.

The screenshot shows the Enterprise Survey interface. At the top, there are navigation buttons for PRINT, EXCEL, and SHARE. Below that is a horizontal menu with categories: Corruption, Crime, Finance, Firm Characteristics, Gender, Informality, Infrastructure, Innovation and Technology, Regulations and Taxes, Trade, and Workforce. The 'Firm Characteristics' category is selected. Below the menu, there is a table with columns for 'Indicator', 'Pakistan', 'South Asia', and 'World'. A dropdown menu is open over the table, showing options: 'No Subgroups', 'Survey Design Strata', 'Location', 'Sector', 'Size', 'Ex post groupings', 'Exporter Type', 'Gender of Top Manager', and 'Ownership Type'. The 'Size' option is highlighted. The table data is as follows:

| Indicator | Pakistan | South Asia | World |
|---|----------|------------|-------|
| Percent of firms expected to give up or stop doing business | 48.0 | 41.2 | 29.4 |
| Percent of firms expected to give up or stop doing business | 12.7 | 21.2 | 18.8 |
| Percent of firms expected to give up or stop doing business | 0.0 | 20.8 | 16.5 |

Surveys that are Non-Global do not yield results that are representative of the firm population in a country. Please check if a survey is Global or not, as this will greatly affect the interpretation of survey results.

¹ At the country level, and levels of stratification, sample averages are representative of the associated population when calculated with sampling weights.

Definitions of Subgroup

Table 1. Definition of Subgroups

| Subgroup | Subgroup levels | Description |
|--|--|--|
| Note: The cuts below are included in the levels of sampling stratification. The sufficient sample sizes should ensure the intended level of precision for the indicator values analyzed at these levels. Please refer to the Sampling Note on the Methodology page of the website. | | |
| Firm Size | Small: 5-19 workers Medium: 20-99 workers Large: 100+ | Firm size is a composite measure of permanent and temporary workers. The number of temporary workers is adjusted by the average number of months worked in a year. |
| Location | Varies by Survey | Enterprise Surveys covers selected regions within a country that represent the largest centers of production and business enterprise. |
| Business Sector | Varies by Survey | Surveys are stratified by business sector. At a minimum, the stratification delineates between Manufacturing and Services firms. In larger economies additional sectors are selected for stratification. |
| Note: The cuts below are NOT included in the levels of stratification. The resulting sample sizes are not guaranteed to ensure the intended level of precision for the indicator values analyzed at these levels. | | |
| Gender of Top Manager | Male Female | Respondents are asked to report the gender of the top manager. This variable is only available in the latest surveys using the Global methodology. |
| Exporting Status | Non-exporter Exporter | A firm is an exporter if at least 10 percent of its annual sales is derived from direct exports |
| Ownership (Domestic vs. Foreign) | Domestic (less than 10% foreign ownership) At least 10% Foreign Ownership | A firm is considered to have foreign ownership if at least 10 percent of ownership is held by foreigners. |

REGULATIONS AND TAXES

Good economic governance in areas such as taxation and regulations and permits and licenses are a fundamental pillar for the creation of a favorable business environment.

The Enterprise Surveys provide qualitative and quantitative measures of taxation and regulations. For example, the Enterprise Surveys approximates the “time tax” imposed by regulations: it measures the time spent by senior management in meetings with public officials. Another indicator, the average number of visits or required meetings with tax officials, measures the average number of tax inspections or meetings with tax inspectors in a given year.

Effective regulations address market failures that inhibit productive investment and reconcile private and public interests. The number of permits and approvals that businesses need to obtain, and the time it takes to obtain them, are expensive and time consuming. The existing legislation of a country also determines the mixed of legal forms private firms take and determines the level of protection for investors thus affecting the incentives to invest. Those indicators focus on the efficiency of business licensing and permit services. The indicators evaluate the delays faced when demanding these services.

[reg1] Senior Management Time Spent in Dealing with Requirements of Government Regulation (%)**Description**

Average percentage of senior management's time that is spent in a typical week dealing with requirements imposed by government regulations (eg. taxes, customs, labor regulations, licensing and registration), including dealings with officials, completing forms, et cetera.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.2.

| | |
|------------|---|
| J.2 | In a typical week over the last year, what percentage of total senior management's time was spent on dealing with requirements imposed by government regulations? [By senior management I mean managers, directors, and officers above direct supervisors of production or sales workers. Some examples of government regulations are taxes, customs, labor regulations, licensing and registration, including dealings with officials and completing forms] |
|------------|---|

| | Percent |
|--|----------------|
| Senior management's time spent on dealing with regulations | j2 % |
| No time was spent | 0 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable j2. |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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[reg2] Average number of visits or required meetings with tax officials**Description**

Average number of visits or required meetings with tax officials. If the respondent answered "No" to question J.3, a zero is recorded for the average number of visits.

Survey Variable Used to Construct Indicator

This indicator is created from the variables J.3 and J.4.

| | |
|------------|---|
| J.3 | Over the last year, was this establishment visited or inspected by tax officials? |
|------------|---|

| | | |
|---------------------------------|-----------|--|
| Yes | 1 | <i>GO TO QUESTION J.6a</i> <i>GO TO QUESTION J.6a</i> |
| No | 2 | |
| Don't know (spontaneous) | -9 | |

j3

| | |
|------------|--|
| J.4 | Over the last year, how many times was this establishment either inspected by tax officials or required to meet with them? |
|------------|--|

| | Number |
|---|---------------|
| Times inspected or met with tax officials | j4 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable j4 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable j4 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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[reg2_c] If there were visits, Average number of visits or required meetings with tax officials**Description**

If there were a positive number of visits or required meeting with tax officials, what was the average number? The variable J.4 only allows positive number of visits as a response.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.4.

| | |
|------------|--|
| J.4 | Over the last year, how many times was this establishment either inspected by tax officials or required to meet with them? |
|------------|--|

| | Number |
|---|---------------|
| Times inspected or met with tax officials | j4 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| November 10, 2009 | Conditional Indicator Created |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable j4 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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[reg4] Percent of Firms Identifying Tax Rates as Major Constraint**Description**

Percentage of firms identifying tax rates as a "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.30a.

| | |
|-------------|---|
| J.30 | As I list some factors that can affect the current operations of a business, please look at this card and tell me the degree to which you think each factor is an obstacle to the current operations of this establishment. SHOW CARD 21 |
|-------------|---|

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|--------------------------|-------------|----------------|-------------------|----------------|----------------------|----------------------------------|-------------------------------------|
| Tax rates j30a | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[reg5] Percent of Firms Identifying Tax Administration as Major Constraint**Description**

Percentage of firms identifying tax administration as a "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.30b.

| | |
|-------------|---|
| J.30 | As I list some factors that can affect the current operations of a business, please look at this card and tell me the degree to which you think each factor is an obstacle to the current operations of this establishment. SHOW CARD 21 |
|-------------|---|

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|-----------------------------------|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Tax administration j30b | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[bus2] Days to Obtain Operating License**Description**

The average wait, in days, to obtain an operating license.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.14.

| | |
|-------------|---|
| J.14 | Approximately how many days did it take to obtain this operating license from the day of the application to the day it was granted? |
|-------------|---|

| | Days |
|---------------------------------|-------------|
| Wait for operating license | j14 |
| Less than one day | 1 |
| Still in process | -6 |
| Application denied | -5 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable j14 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable j14 |

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[bus3] Days to Obtain Construction-Related Permit**Description**

Average wait, in days, to obtain construction-related permit.

Survey Variable Used to Construct Indicator

This indicator is created from the variable G.3.

| | |
|------------|---|
| G.3 | In reference to that application for a construction-related permit, approximately how many days did it take to obtain it from the day of the application to the day the permit was granted? |
|------------|---|

| | Days |
|--|-------------|
| Wait for a construction-related permit | g3 |
| Less than one day | 1 |
| Still in process | -6 |
| Application denied | -5 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable g3 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable g3 |

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[bus1] Days to Obtain an Import License**Description**

Average wait, in days, to obtain import license.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.11.

| | |
|-------------|--|
| J.11 | Approximately how many days did it take to obtain this import license from the day of the application to the day it was granted? |
|-------------|--|

| | Days |
|---------------------------------|-------------|
| Wait for import license | j11 |
| Less than one day | 1 |
| Still in process | -6 |
| Application denied | -5 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable j11 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable j11 |

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[bus5] Percent of Firms Identifying Business Licensing and Permits as Major Constraint**Description**

Percentage of firms identifying business licensing and permits as "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.30c.

| | |
|-------------|--|
| J.30 | As I list some factors that can affect the current operations of a business, please look at this card and tell me the degree to which you think each factor is an obstacle to the current operations of this establishment. SHOW CARD 21 |
|-------------|--|

ROTATE OPTIONS

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|---|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Business licensing and permits j30c | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

May 2, 2011

[Changes to ECA 2002 & 2005 surveys](#)

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CORRUPTION

Corruption by public officials may present a major administrative and financial burden on firms. Corruption creates an unfavorable business environment by undermining the operational efficiency of firms and raising the costs and risks associated with doing business.

Inefficient regulations constrain firm efficiency as they present opportunities for soliciting bribes where firms are required to make “unofficial” payments to public officials to get things done. In many countries bribes are common and quite high and they add to the bureaucratic costs in obtaining required permits and licenses. They can be a serious impediment for firms’ growth and development.

The Enterprise Surveys include several indicators for corruption. The Graft Index reflects the proportion of times a firm was asked or expected to pay a bribe when soliciting six different public services, permits or licenses. Other indicators identify the extent to which specific regulatory and administrative officials require bribe payments during meetings with tax inspectors or in order to secure a government contract. Another set of indicators focuses on bribes to obtain specific licenses or permits, and shows the share of firms that are expected to make informal payments to secure import and operating licenses and to obtain a construction permit

CORRUPTION

[corr4] Percent of Firms Expected to Give Gifts to Public Officials (to Get Things Done)

Description

Percentage of establishments that consider that firms with characteristics similar to theirs are making informal payments or giving gifts to public officials to "get things done" with regard to customs, taxes, licenses, regulations, services etc.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.7. If either j7a or j7b is positive, then the firm is considered to pay. If the respondent answers -8, it is also interpreted that the firm pays.

| | |
|------------|---|
| J.7 | It is said that establishments are sometimes required to make gifts or informal payments to public officials to "get things done" with regard to customs, taxes, licenses, regulations, services etc. On average, what percentage of total annual sales, or estimated total annual value, do establishments like this one pay in informal payments or gifts to public officials for this purpose? |
|------------|---|

| | Percent |
|---|--------------|
| Percentage of total annual sales paid as informal payment | j7a % |
| No payments or gifts are paid | 0 |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |

PROVIDE EITHER ONE OR THE OTHER, NOT BOTH

| | LCUs |
|--------------------------------------|------------|
| Total annual informal payment | j7b |
| No payments or gifts are paid | 0 |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |

Indicator Comparability

Indicators created following ES Global Methodology are comparable across countries and survey years. However, there also exists surveys that do not follow the Global Methodology and indicators created using these surveys are not comparable to other surveys.

Indicator Updates

| | |
|-------------------|---|
| September 7, 2010 | Consideration of an answer of -8 (Refusal) as the firm pays informal payments |
| December 7, 2010 | Treatment of -8 Change affected outlier treatment on the variable j7a |
| December 7, 2010 | Treatment of -8 Change affected outlier treatment on the variable j7b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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CORRUPTION

[corr3] Value of Gift Expected to Secure Government Contract (% of Contract)

Description

Percentage of contract value expected as a gift to secure government contract. Only firms that have confirmed that they have secured or attempted to secure a government contract in the last 12 months were required to answer this question.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.6.

| | |
|------------|---|
| J.6 | When establishments like this one do business with the government, what percent of the contract value would be typically paid in informal payments or gifts to secure the contract? |
|------------|---|

| | Percent |
|--|-------------|
| Percent of the contract value paid as informal payments or gifts | j6 % |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |
| No payments | 0 |

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, question J.6 was asked to all firms, regardless of whether or not the firm had secured or attempted to secure a government contract (question J.6a which precedes J.6).

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable j6 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable j6 |
| December 7, 2010 | Treatment of -8 Change affected j6 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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CORRUPTION

[corr5] Percent of Firms Expected to Give Gifts to Get a Phone Connection

Description

Percentage of firms expected to give gifts or informal payments to get a phone connection.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.21.

| | |
|-------------|---|
| C.21 | In reference to that application for a telephone connection, was an informal gift or payment expected or requested? |
|-------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

| |
|------------|
| c21 |
|------------|

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|---|
| December 7, 2010 | Treatment of -8 Change affected c21 |
|------------------|---|

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CORRUPTION

[corr6] Percent of firms Expected to Give Gifts to Get an Electrical Connection

Description

Percentage of firms expected to give gifts or informal payments to get an electrical connection.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.5.

| | |
|------------|---|
| C.5 | In reference to that application for an electrical connection, was an informal gift or payment expected or requested? |
|------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

| |
|-----------|
| c5 |
|-----------|

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|--|
| December 7, 2010 | Treatment of -8 Change affected c5 |
|------------------|--|

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CORRUPTION

[corr7] Percent of Firms Expected to Give Gifts to Get a Water Connection

Description

Percentage of firms expected to give gifts or informal payments to get a water connection.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.14.

| | |
|-------------|---|
| C.14 | In reference to that application for a water connection, was an informal gift or payment expected or requested? |
|-------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

| |
|------------|
| c14 |
|------------|

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|---|
| December 7, 2010 | Treatment of -8 Change affected c14 |
|------------------|---|

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CORRUPTION

[corr8] Percent of Firms Expected to Give Gifts to Get a Construction Permit

Description

Percentage of firms expected to give gifts or informal payments to get a construction permit.

Survey Variable Used to Construct Indicator

This indicator is created from the variable G.4.

| | |
|------------|--|
| G.4 | In reference to that application for a construction-related permit, was an informal gift or payment expected or requested? |
|------------|--|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

| |
|-----------|
| g4 |
|-----------|

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|--|
| December 7, 2010 | Treatment of -8 Change affected g4 |
|------------------|--|

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CORRUPTION

[corr9] Percent of Firms Expected to Give Gifts to Get an Import License

Description

Percentage of firms expected to give gifts or informal payments to get an import license.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.12.

| | |
|-------------|--|
| J.12 | In reference to that application for an import license, was an informal gift or payment expected or requested? |
|-------------|--|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

| |
|------------|
| j12 |
|------------|

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|---|
| December 7, 2010 | Treatment of -8 Change affected j12 |
|------------------|---|

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CORRUPTION

[corr10] Percent of Firms Expected to Give Gifts to Get an Operating License

Description

Percentage of firms expected to give gifts or informal payments to get an operating license. Spontaneous refusals to the question are treated as a "Yes".

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.15.

| | |
|-------------|---|
| J.15 | In reference to that application for an operating license, was an informal gift or payment expected or requested? |
|-------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |

j15

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|---|
| December 7, 2010 | Treatment of -8 Change affected j15 |
|------------------|---|

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CORRUPTION

[corr1] Percent of Firms Expected to Give Gifts In Meetings With Tax Officials

Description

Percentage of firms expected to give gifts or informal payments during meetings with tax officials.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.5.

| | |
|------------|---|
| J.5 | In any of these inspections or meetings was a gift or informal payment expected or requested? |
|------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |

| |
|-----------|
| j5 |
|-----------|

Indicator Comparability

Indicators created from surveys following the ES Global methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the Global methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|--|
| December 7, 2010 | Treatment of -8 Change affected j5 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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CORRUPTION

[corr2] Percent of Firms Expected to Give Gifts to Secure a Government Contract**

Description

Percentage of establishments that consider that firms with characteristics similar to theirs are making informal payments or giving gifts to public officials to secure government contract.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.6 and J.6a.

| | |
|-------------|--|
| J.6a | Over the last year, has this establishment secured or attempted to secure a government contract? |
|-------------|--|

| | | |
|---------------------------------|-----------|---------------------------|
| Yes | 1 | <i>GO TO QUESTION J.7</i> |
| No | 2 | |
| Don't know (spontaneous) | -9 | |

j6a

| | |
|------------|---|
| J.6 | When establishments like this one do business with the government, what percent of the contract value would be typically paid in informal payments or gifts to secure the contract? |
|------------|---|

| | Percent |
|--|-------------|
| Percent of the contract value paid as informal payments or gifts | j6 % |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |
| No payments | 0 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable j6 |
| December 7, 2010 | Treatment of -8 Change affected j6 |
| December 7, 2010 | Treatment of -9 Change affected j6a |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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CORRUPTION

[corr11] Percent of Firms Identifying Corruption as a Major Constraint

Description

Percentage of firms identifying corruption as a "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.30f.

| | |
|-------------|---|
| J.30 | As I list some factors that can affect the current operations of a business, please look at this card and tell me the degree to which you think each factor is an obstacle to the current operations of this establishment. SHOW CARD 21 |
|-------------|---|

ROTATE OPTIONS

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|---------------------------|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Corruption j30f | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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CORRUPTION

[corr12] Percent of Firms Believing the Court System is Fair, Impartial and Uncorrupted

Description

Percentage of firms believing the court system is fair, impartial and uncorrupted.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.1

| | |
|------------|---|
| J.1 | I am going to read some statements that describe the courts system and how it could affect business. For each statement, please tell me if you Strongly disagree, Tend to disagree, Tend to agree, or Strongly agree. SHOW CARD 20 |
|------------|---|

| | Strongly disagree | Tend to disagree | Tend to agree | Strongly agree | Don't know (spontaneous) |
|--|-------------------|------------------|---------------|----------------|--------------------------|
| "The court system is fair, impartial and uncorrupted." h7a | 1 | 2 | 3 | 4 | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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CORRUPTION

[graft1] Graft index

Description

The Incidence of Graft Index is the percentage of instances in which a firm was either expected or requested to provide a gift or informal payment during solicitations for public services, licenses or permits. This Index uses data from 6 survey questions for each firm. For purposes of Index computation, a refusal to answer a particular survey question is considered an affirmative answer. This Index is a modified version of the Graft Index defined in A. Gonzalez et. al. World Bank Policy Research Working Paper #4394.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.5., C.14, C.21, G.4, J.12, J.15

C.5 In reference to that application for an electrical connection, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

c5

C.14 In reference to that application for a water connection, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

c14

C.21 In reference to that application for a telephone connection, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

c21

G.4 In reference to that application for a construction-related permit, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

g4

J.12

In reference to that application for an import license, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

j12**J.15**

In reference to that application for an operating license, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |

j15**Indicator Comparability**

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| | Treatment of -8 Change affected c5, c14, c21, g4, j12, j15 |
| February 28, 2011 | For sensitive corruption-related variables, the Enterprise Surveys allow enumerators to capture a "refusal" when a respondent spontaneously refuses to answer a question. This is differentiated from a non-response such as "Don't Know". When a respondent spontaneously refuses to answer a question on bribery the Enterprise Survey Indicators record such responses as affirmation that a bribe was given or requested. The change noted here simply extends the same logic to the Graft Index for consistency. |
| September 2011 | Indicator is discontinued, please see graft2 indicator |

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CORRUPTION

[graft2] Bribery depth (% of gift or informal payment requests during public transactions)

Description

The incidence of Bribery Index is the percentage of instances in which a firm was either expected or requested to provide a gift or informal payment during solicitations for public services, licenses or permits. This Index uses data from 6 survey questions for each firm. For purposes of Index computation, a refusal to answer a particular survey question is considered an affirmative answer. This Index is a modified version of the Graft Index defined in A. Gonzalez et al. 2007. World Bank Policy Research Working Paper #4394.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.5., C.14, G.4, J.5, J.12, J.15

C.5 In reference to that application for an electrical connection, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

c5

C.14 In reference to that application for a water connection, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

c14

G.4 In reference to that application for a construction-related permit, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

g4

J.5 In any of these inspections or meetings was a gift or informal payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

j5

J.12 In reference to that application for an import license, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

j12

J.15 In reference to that application for an operating license, was an informal gift or payment expected or requested?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |

j15

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-----------------|-------------------|
| August 18, 2011 | Indicator Created |
| | |

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CORRUPTION

[graft3] Percent of firms experiencing at least one bribe payment request

Description

Percent of firms experiencing at least one bribe payment request during 6 transactions dealing with utilities access, permits, licenses, and taxes.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.5., C.14, G.4, J.5, J.12, J.15

C.5 In reference to that application for an electrical connection, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

c5

C.14 In reference to that application for a water connection, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

c14

G.4 In reference to that application for a construction-related permit, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

g4

J.5 In any of these inspections or meetings was a gift or informal payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

j5

J.12 In reference to that application for an import license, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| REFUSE (spontaneous) | -8 |

j12

J.15 In reference to that application for an operating license, was an informal gift or payment expected or requested?

| | |
|--------------------------|----|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| Refusal (spontaneous) | -8 |

j15

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|----------------|-------------------|
| April 18, 2012 | Indicator Created |
| | |

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CRIME

Crime imposes costs on firms when they are forced to divert resources from productive uses to cover security costs. Both foreign and domestic investors perceive crime as an indication of social instability, and crime drives up the cost of doing business. Also, commercial disputes between firms and their clients occur regularly in the course of doing business. Resolving these disputes can be challenging when legal institutions are weak or nonexistent.

The Enterprise Surveys capture key dimensions of the effect of crime on firm sales, the extent to which entrepreneurs identify courts as fair and more. For example, the set of indicators measures the direct costs of security incurred by firms as well as their direct losses due to crime. These resources represent an opportunity cost since they could have been invested in productive activities. Another indicator (Perceptions about the Courts) shows the share of firms that recognize the functioning of the courts as being fair, impartial, and uncorrupted.

CRIME

[crime1] Percent of Firms Paying for Security

Description

Percentage of firms paying for security, for example equipment, personnel, or professional security services.

Survey Variable Used to Construct Indicator

This indicator is created from the variable I.1.

| | |
|------------|--|
| I.1 | In fiscal year [insert last complete fiscal year] , did this establishment pay for security, for example equipment, personnel, or professional security services? |
|------------|--|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

GO TO QUESTION I.3

GO TO QUESTION I.3

i1

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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CRIME

[crime3] Losses Due to Theft and Vandalism Against the Firm (% of Annual Sales)

Description

Estimated losses as a result of theft, robbery, vandalism or arson that occurred on establishment's premises calculated as a percentage of annual sales.

Survey Variable Used to Construct Indicator

This indicator is created from the variables I.3 and I.4. If the respondent answered I4b, then the value is divided by annual sales (D2).

| | |
|------------|--|
| I.3 | In fiscal year [insert last complete fiscal year] , did this establishment experience losses as a result of theft, robbery, vandalism or arson? |
|------------|--|

| | | |
|---------------------------------|-----------|----------------------------|
| Yes | 1 | |
| No | 2 | <i>GO TO QUESTION I.30</i> |
| Don't know (spontaneous) | -9 | <i>GO TO QUESTION I.30</i> |

i3

| | |
|------------|--|
| I.4 | In fiscal year [insert last complete fiscal year] , what were the estimated losses as a result of theft, robbery, vandalism or arson that occurred on this establishment's premises either as a percentage of total annual sales or as total annual losses? |
|------------|--|

| | Percent |
|--|--------------|
| Losses as percentage of total annual sales | i4a % |
| Don't know (spontaneous) | -9 |

PROVIDE EITHER ONE OR THE OTHER, NOT BOTH

| | LCUs |
|---------------------------------|------------|
| Total annual value of losses | i4b |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables d2, i4b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables d2, i4a, i4b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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CRIME

[crime3_c] If there were losses, average losses due to theft and vandalism (% of annual sales)

Description

If there were losses, estimated losses as a result of theft, robbery, vandalism or arson that occurred on establishment's premises calculated as a percentage of annual sales.

Survey Variable Used to Construct Indicator

This indicator is created from the variable I.4. If the respondent answered I4b, then the value is divided by annual sales (D2).

| | |
|------------|--|
| I.4 | In fiscal year [insert last complete fiscal year] , what were the estimated losses as a result of theft, robbery, vandalism or arson that occurred on this establishment's premises either as a percentage of total annual sales or as total annual losses? |
|------------|--|

| | Percent |
|--|--------------|
| Losses as percentage of total annual sales | i4a % |
| Don't know (spontaneous) | -9 |

PROVIDE EITHER ONE OR THE OTHER, NOT BOTH

| | LCUs |
|---------------------------------|------------|
| Total annual value of losses | i4b |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| November 10, 2009 | Indicator created. |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables d2, i4a, i4b |
| | |

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CRIME

[crime2] Security Costs (% of Annual Sales)

Description

Average security costs as a percentage of total annual sales for all firms.

Survey Variable Used to Construct Indicator

This indicator is created from the variables I.1 and I.2. If the respondent answered I2b, then the total cost is divided by annual sales (D2).

| | |
|------------|--|
| I.1 | In fiscal year [insert last complete fiscal year] , did this establishment pay for security, for example equipment, personnel, or professional security services? |
|------------|--|

| | | |
|---------------------------------|-----------|---------------------------|
| Yes | 1 | |
| No | 2 | <i>GO TO QUESTION I.3</i> |
| Don't know (spontaneous) | -9 | <i>GO TO QUESTION I.3</i> |

i1

| | |
|------------|---|
| I.2 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's total annual sales was paid for security, or what was the total annual cost of security? |
|------------|---|

| | Percent |
|---|--------------|
| Percentage of total annual sales for security | i2a % |
| Don't know (spontaneous) | -9 |

PROVIDE EITHER ONE OR THE OTHER, NOT BOTH

| | LCUs |
|---------------------------------|------------|
| Total annual cost of security | i2b |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables d2, i2a, i2b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables d2, i2a, i2b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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CRIME

[crime2_c] If the establishment pays for security, average security costs (% of annual sales)

Description

Average security costs as a percentage of total annual sales for firms that pay for security.

Survey Variable Used to Construct Indicator

This indicator is created from the variable I.2. If the respondent answered I2b, then the total cost is divided by annual sales (D2).

| | |
|------------|---|
| I.2 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's total annual sales was paid for security, or what was the total annual cost of security? |
|------------|---|

| | Percent |
|---|--------------|
| Percentage of total annual sales for security | i2a % |
| Don't know (spontaneous) | -9 |

PROVIDE EITHER ONE OR THE OTHER, NOT BOTH

| | LCUs |
|---------------------------------|------------|
| Total annual cost of security | i2b |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| November 10, 2009 | Indicator Created |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables d2, i2a, i2b |

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CRIME

[crime9] Percent of Firms Identifying the Courts as a Major Constraint

Description

Percentage of firms identifying functioning of the courts as major constraint. The computation of the indicator is based on the rating of the obstacle as a potential constraint to the current operations of the establishment.

Survey Variable Used to Construct Indicator

This indicator is created from the variable J.30.

| | |
|-------------|---|
| J.30 | As I list some factors that can affect the current operations of a business, please look at this card and tell me the degree to which you think each factor is an obstacle to the current operations of this establishment. SHOW CARD 21 |
|-------------|---|

ROTATE OPTIONS

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|----------------------|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Courts h30 | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|--|--|
| | |
| | |

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CRIME

[crime5] Products Shipped to Supply Domestic Markets that were Lost Due to Theft (% of product value)*

Description

Value of losses of products, due to theft, while in transit to domestic markets.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.10.

| | |
|-------------|---|
| D.10 | In fiscal year [insert last complete fiscal year] , what percentage of the value of products this establishment shipped to supply domestic markets was lost while in transit because of theft? |
|-------------|---|

| | Percent |
|--|--------------|
| Losses due to theft as percentage of the value of the products | d10 % |
| No losses | 0 |
| Don't know (spontaneous) | -9 |
| No internal shipments made | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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CRIME

[crime8] Percent of Firms Identifying Crime, Theft and Disorder as a Major Constraint

Description

Percentage of firms identifying crime, theft and disorder as a "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable I.30.

| | |
|-------------|--|
| I.30 | Using the response options on the card; To what degree is Crime, Theft and Disorder an obstacle to the current operations of this establishment? SHOW CARD 15 |
|-------------|--|

| | No obstacle | Minor obstacle | Moderate obstacle | Major Obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|---|-------------|----------------|-------------------|----------------|----------------------|----------------------------------|-------------------------------------|
| Crime, theft and disorder i30 | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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INFORMALITY

A large informal sector has serious consequences for the formal private sector. The informal sector may pose unfair competition for formal firms. The Enterprise Surveys capture key dimensions the degree of informality in an economy. For example, the set of indicators (unregistered start-ups) shows the percentage of firms that started operation without begin formally registered. It is an approximation to the prevalence of informality in the private economy.

| INFORMALITY | |
|---|--|
| [infor3] Percent of Firms expressing that a Typical Firm Reports less than 100% of Sales for Tax Purposes | |
| Description | |
| Percentage of firms expressing that a typical firm reports less than 100 percent of sales for tax purposes. | |
| Survey Variable Used to Construct Indicator | |
| <i>Note that <u>this question is no longer asked in the global roll out of the Enterprise Surveys.</u></i> | |
| Indicator Comparability | |
| Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the datadetails.xls file for a list of Global and Non-Global surveys. | |
| Indicator Updates | |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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INFORMALITY

[infor1] Percent of Firms Competing Against Unregistered or Informal Firms

Description

Percentage of firms competing against unregistered or informal firms.

Survey Variable Used to Construct Indicator

This indicator is created from the variable E.11.

| | |
|-------------|---|
| E.11 | Does this establishment compete against unregistered or informal firms? |
|-------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

e11

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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INFORMALITY

[infor2] % of Firms Identifying Practices of Competitors in the Informal Sector as a Major Constraint

Description

Percentage of firms identifying practices of competitors in the informal sector as major constraint. The computation of the indicator is based on the rating of the obstacle as a potential constraint to the current operations of the establishment.

Survey Variable Used to Construct Indicator

This indicator is created from the variable E.30.

| | |
|-------------|---|
| E.30 | Using the response options on the card; To what degree are Practices of Competitors in the Informal Sector an obstacle to the current operations of this establishment? SHOW CARD 10 |
|-------------|---|

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|--|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Practices of competitors in the informal sector e30 | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|--|--|
| | |
| | |

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INFORMALITY

[infor4] Percent of firms formally registered when started operations in the country

Description

Percentage of firms formally registered when they started operations in the country.

Survey Variable Used to Construct Indicator

This indicator is created from the variable B.6a.

| | |
|-------------|--|
| B.6a | Was this establishment formally registered when it began operations? |
|-------------|--|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

b6a

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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INFORMALITY

[infor5] Number of years firms operated without formal registration

Description

Average number of years firms operated without formal registration. This indicator is computed only for the firms that did not have a formal registration when they started their operations in the country.

Survey Variable Used to Construct Indicator

This indicator is created from the variables B.5, B.6a, and B.6b.

B.5 In what year did this establishment begin operations?

| | Year | Answer from previous round |
|-------------------------------------|-----------|----------------------------|
| Year establishment began operations | b5 | |
| Don't know (spontaneous) | -9 | |

INTERVIEWER: PROVIDE FOUR DIGITS FOR YEAR

B.6a Was this establishment formally registered when it began operations?

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

b6a

B.6b In what year was this establishment formally registered?

| | Year | Answer from previous round |
|--|------------|----------------------------|
| Year establishment formally registered | b6b | |
| Don't know (spontaneous) | -9 | |
| Never registered (spontaneous) | -7 | |

INTERVIEWER: PROVIDE FOUR DIGITS FOR YEAR.

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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GENDER

The Enterprise Surveys provide indicators that describe several dimensions of gender composition in the workforce. It also collects information on the characteristics of the workforce employed in the non agricultural private economy. The set of indicators presents the composition of the firm's workforce by type of contract and gender. Labor regulations have a direct effect on the type of employment favored by firms and they may have a different impact by gender. Other indicators present the composition of the workforce classified into temporary and permanent workers and reflect the participation of women in regular full time employment.

| GENDER | |
|---|--|
| [gend1] Percent of Firms With Female Participation in Ownership | |
| Description | |
| Percentage of firms with females among the owners. | |
| Survey Variable Used to Construct Indicator | |
| This indicator is created from the variable B.4. | |
| B.4 | Amongst the owners of the firm, are there any females? |
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |
| | b4 |
| Indicator Comparability | |
| Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the datadetails.xls file for a list of Global and Non-Global surveys. | |
| Indicator Updates | |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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GENDER

[gend2] Proportion of Permanent Full-Time Workers that are Female*

Description

Percentage of full-time workers that are female.

Survey Variable Used to Construct Indicator

This indicator is created from the variables L.1, L.5a, L.5b and L.5.

| | |
|------------|--|
| L.1 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals worked in this establishment? Please include all employees and managers (Permanent, full-time employees are defined as all paid employees that are contracted for a term of one or more fiscal years and/or have a guaranteed renewal of their employment contract and that work 8 or more hours per day) (INTERVIEWER: include interviewee if applicable). |
|------------|--|

| | Number |
|--|-----------|
| Permanent, full-time workers end of last fiscal year | 11 |
| Don't know (spontaneous) | -9 |

| | |
|------------|---|
| L.5 | At the end of fiscal year [insert last complete fiscal year] , how many permanent full-time individuals working in this establishment in the following categories were female? |
|------------|---|

| | Number | Don't know (spontaneous) |
|---|------------|-----------------------------|
| Female permanent full-time production workers | 15a | -9 |
| Female permanent full-time non-production workers | 15b | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables l1,15a, 15b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables l1,15a, 15b |

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GENDER

[gend3] Proportion of Permanent Full-time Non-production Workers that are Female *

Description

Percentage of permanent full-time non-production workers that are female.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.1 and L.5b.

| | |
|------------|---|
| L.1 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals worked in this establishment? Please include all employees and managers (Permanent, full-time employees are defined as all paid employees that are contracted for a term of one or more fiscal years and/or have a guaranteed renewal of their employment contract and that work 8 or more hours per day) (INTERVIEWER: include interviewee if applicable). |
|------------|---|

| | Number |
|--|-----------|
| Permanent, full-time workers end of last fiscal year | 11 |
| Don't know (spontaneous) | -9 |

| | |
|------------|--|
| L.5 | At the end of fiscal year [insert last complete fiscal year] , how many permanent full-time individuals working in this establishment in the following categories were female? |
|------------|--|

| | Number | Don't know (spontaneous) |
|---|------------|-----------------------------|
| Female permanent full-time non-production workers | 15b | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables 11, 15b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables 11, 15b |

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| GENDER | |
|---|----------------------------|
| [gend4] Percent of Firms With a Female Top Manager | |
| Description | |
| Percentage of firms with females as the top manager. | |
| Survey Variable Used to Construct Indicator | |
| This indicator is created from the variable B.7a. | |
| B.7a | Is the Top Manager female? |
| Yes | 1 |
| No | 2 |
| DON'T KNOW (SPONTANEOUS) | -9 |
| | b7a |
| Indicator Comparability | |
| Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the datadetails.xls file for a list of Global and Non-Global surveys. | |
| Indicator Updates | |
| June 17, 2009 | Indicator created |
| | |

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FINANCE

The Enterprise Surveys provide indicators of how firms finance their operations and of the characteristics of their financial transactions. For example, Enterprise Surveys provide indicators that compare the relative use of various sources to finance investment. Excessive reliance on internal funds is a sign of potentially inefficient financial intermediation. Another set of indicators measures the use of financial markets by individual firms. It presents the percentage of working capital that is financed by external sources to the firm, and a measure of the burden imposed by loan requirements measured by collateral levels relative to the value of the loans. Additional indicators focus on the use of financial services by private firms both on the credit side, by measuring the percentage of firms with bank loans or lines of credit, and on the deposit mobilization side, by measuring the percentage of firms with checking or savings accounts.

[fin14] Percent of Firms with a Bank Loan/Line of Credit**Description**

Percentage of firms with bank loans or line of credit.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.8.

| | |
|------------|---|
| K.8 | At this time, does this establishment have a line of credit or a loan from a financial institution? |
|------------|---|

| | | |
|---------------------------------|-----------|-----------------------------|
| Yes | 1 | |
| No | 2 | <i>GO TO QUESTION K.15d</i> |
| Don't know (spontaneous) | -9 | <i>GO TO QUESTION K.15d</i> |
| | | k8 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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[fin1] Proportion of Investments Financed by Internal Funds (%)**Description**

Estimated proportion of purchases of fixed assets that was financed from internal funds/retained earnings.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.5a.

| | |
|------------|---|
| K.5 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's total purchase of fixed assets that was financed from each of the following sources: SHOW CARD 17 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|--|-------------|-----------------------------|
| Internal funds or retained earnings | k5a% | -9 |
| Owners' contribution or issued new equity shares | | -9 |
| Borrowed from banks: private and state-owned | | -9 |
| Borrowed from non-bank financial institutions | | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, bonds, etc | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin2] Proportion of Investments Financed by Banks (%)**Description**

Estimated proportion of purchases of fixed assets that was financed from bank loans.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.5bc.

| | |
|------------|---|
| K.5 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's total purchase of fixed assets that was financed from each of the following sources: SHOW CARD 17 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|--|-------------|-----------------------------|
| Internal funds or retained earnings | | -9 |
| Owners' contribution or issued new equity shares | | -9 |
| Borrowed from banks: private and state-owned | k5bc% | -9 |
| Borrowed from non-bank financial institutions | | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, bonds, etc | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin3] Proportion of Investments Financed by Supplier Credit (%)**Description**

Estimated proportion of purchases of fixed assets that was financed by suppliers credit and advances from customers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.5f.

| | |
|------------|---|
| K.5 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's total purchase of fixed assets that was financed from each of the following sources: SHOW CARD 17 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|--|-------------|-----------------------------|
| Internal funds or retained earnings | | -9 |
| Owners' contribution or issued new equity shares | | -9 |
| Borrowed from banks: private and state-owned | | -9 |
| Borrowed from non-bank financial institutions | | -9 |
| Purchases on credit from suppliers and advances from customers | k5f% | -9 |
| Other, moneylenders, friends, relatives, bonds, etc | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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[fin4] Proportion of Investments Financed by Equity or Stock Sales (%)**Description**

Estimated proportion of purchases of fixed assets that was financed by owners' contribution or issue of new equity shares.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.5i.

| | |
|------------|---|
| K.5 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's total purchase of fixed assets that was financed from each of the following sources: SHOW CARD 17 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|--|-------------|-----------------------------|
| Internal funds or retained earnings | | -9 |
| Owners' contribution or issued new equity shares | k5i% | -9 |
| Borrowed from banks: private and state-owned | | -9 |
| Borrowed from non-bank financial institutions | | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, bonds, etc | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin5] Proportion of Investments Financed by Other Financing Sources (%)**Description**

Estimated proportion of purchases of fixed assets that was financed by other sources, i.e. loans from non-bank financial institutions; issued new debt; moneylenders, friends, relatives, etc.

Survey Variable Used to Construct Indicator

This indicator is created from the variables K.5e and K.5hdj.

| | |
|------------|---|
| K.5 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's total purchase of fixed assets that was financed from each of the following sources: SHOW CARD 17 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|--|----------------|-------------------------------------|
| Internal funds or retained earnings | | -9 |
| Owners' contribution or issued new equity shares | | -9 |
| Borrowed from banks: private and state-owned | | -9 |
| Borrowed from non-bank financial institutions | k5e% | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, bonds, etc | k5hdj% | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|------------------|--|
| February, 4 2011 | Updated fin5 for ECA 2008/2009 countries using k5hdej. |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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[fin6] Proportion of Working Capital Financed by Internal Funds (%)**Description**

Proportion of the working capital that was financed by internal financing.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.3a.

| | |
|------------|---|
| K.3 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's working capital that was financed from each of the following sources? |
|------------|---|

INTERVIEWER: SHOW CARD 12

| | Percent | Don't know (spontaneous) |
|---|--------------|-----------------------------|
| Internal funds or retained earnings | k3a % | -9 |
| Borrowed from banks: private and state-owned | | -9 |
| Borrowed from non-bank financial institutions which include microfinance institutions, credit cooperatives, credit unions, or finance companies | | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, etc. | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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FINANCE

[fin7] Proportion of Working Financed by Banks (%)

Description

Proportion of the working capital that was financed by bank loans.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.3bc.

| | |
|------------|---|
| K.3 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's working capital that was financed from each of the following sources? INTERVIEWER: SHOW CARD 12 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|---|---------------|--------------------------|
| Internal funds or retained earnings | | -9 |
| Borrowed from banks: private and state-owned | k3bc % | -9 |
| Borrowed from non-bank financial institutions which include microfinance institutions, credit cooperatives, credit unions, or finance companies | | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, etc. | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin8] Proportion of Working Capital Financed by Supplier Credit (%)**Description**

Proportion of the working capital that was financed by supplier credit and advances from customers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.3f.

| | |
|------------|---|
| K.3 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's working capital that was financed from each of the following sources? INTERVIEWER: SHOW CARD 12 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|---|--------------|-----------------------------|
| Internal funds or retained earnings | | -9 |
| Borrowed from banks: private and state-owned | | -9 |
| Borrowed from non-bank financial institutions which include microfinance institutions, credit cooperatives, credit unions, or finance companies | | -9 |
| Purchases on credit from suppliers and advances from customers | k3f % | -9 |
| Other, moneylenders, friends, relatives, etc. | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin9] Proportion of Working Capital Financed by Other Financing Sources (%)**Description**

Estimated proportion of the working capital that was financed by other financing, i.e. non-bank financial institutions; moneylenders, friends, relatives, etc.

Survey Variable Used to Construct Indicator

This indicator is created from the variables K.3e and K.3hd.

K.3 Over fiscal year **[insert last complete fiscal year]**, please estimate the proportion of this establishment's working capital that was financed from each of the following sources?

INTERVIEWER: SHOW CARD 12

| | Percent | Don't know (spontaneous) |
|---|---------------|-----------------------------|
| Internal funds or retained earnings | | -9 |
| Borrowed from banks: private and state-owned | | -9 |
| Borrowed from non-bank financial institutions which include microfinance institutions, credit cooperatives, credit unions, or finance companies | k3e % | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, etc. | k3hd % | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

May 2, 2011 [Changes to ECA 2002 & 2005 surveys](#)

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[fin19] Proportion of Working Capital Financed by External Sources (%)**Description**

Proportion of the working capital that was financed by banks, suppliers, or other sources. This is the total of 3 indicators: fin7, fin8, and fin9.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.3bc, K.3e, K.3f, and K.3hdj.

K.3 Over fiscal year **[insert last complete fiscal year]**, please estimate the proportion of this establishment's working capital that was financed from each of the following sources?

INTERVIEWER: SHOW CARD 12

| | Percent | Don't know (spontaneous) |
|---|----------------|-------------------------------------|
| Internal funds or retained earnings | | -9 |
| Borrowed from banks: private and state-owned | k3bc % | -9 |
| Borrowed from non-bank financial institutions which include microfinance institutions, credit cooperatives, credit unions, or finance companies | k3e % | -9 |
| Purchases on credit from suppliers and advances from customers | k3f % | -9 |
| Other, moneylenders, friends, relatives, etc. | k3hdj % | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

May 2, 2011 [Changes to ECA 2002 & 2005 surveys](#)

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[fin12] Percent of Firms Using Banks to Finance Investments**Description**

Percentage of firms using banks to finance purchases of fixed assets.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.5bc

| | |
|------------|---|
| K.5 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's total purchase of fixed assets that was financed from each of the following sources: SHOW CARD 17 |
|------------|---|

| | Percent | Don't know (spontaneous) |
|--|----------------|-------------------------------------|
| Internal funds or retained earnings | | -9 |
| Owners' contribution or issued new equity shares | | -9 |
| Borrowed from banks: private and state-owned | k5bc% | -9 |
| Borrowed from non-bank financial institutions | | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, bonds, etc | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin13] Percent of Firms Using Banks to Finance Working Capital**Description**

Percentage of firms using bank loans to finance working capital.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.3bc

| | |
|------------|---|
| K.3 | Over fiscal year [insert last complete fiscal year] , please estimate the proportion of this establishment's working capital that was financed from each of the following sources? |
|------------|---|

INTERVIEWER: SHOW CARD 12

| | Percent | Don't know (spontaneous) |
|---|---------------|-----------------------------|
| Internal funds or retained earnings | | -9 |
| Borrowed from banks(private and state-owned | k3bc % | -9 |
| Borrowed from non-bank financial institutions which include microfinance institutions, credit cooperatives, credit unions, or finance companies | | -9 |
| Purchases on credit from suppliers and advances from customers | | -9 |
| Other, moneylenders, friends, relatives, etc. | | -9 |
| | 100% | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin10] Value of Collateral Needed for a Loan (% of the Loan Amount)

Description

Value of collateral needed for a loan or line of credit as a percentage of the loan value or the value of the line of credit.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.15, K.13, and K.8.

K.15 Referring only to this most recent line of credit or loan, what was the approximate value of the collateral required?

| | LCUs |
|--------------------------|------|
| Value of collateral | k15a |
| Don't know (spontaneous) | -9 |

K.13 Referring only to this most recent loan or line of credit, did the financing require collateral?

| | | |
|--------------------------|----|--|
| Yes | 1 | <i>GO TO QUESTION K.15b</i> <i>GO TO QUESTION K.15b</i> |
| No | 2 | |
| DON'T KNOW (SPONTANEOUS) | -9 | |

k13

K.8 At this time, does this establishment have a line of credit or a loan from a financial institution?

| | | |
|--------------------------|----|--|
| Yes | 1 | <i>GO TO QUESTION K.15d</i> <i>GO TO QUESTION K.15d</i> |
| No | 2 | |
| DON'T KNOW (SPONTANEOUS) | -9 | |

k8

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables k15 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables k15 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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[fin11] Proportion of Loans Requiring Collateral (%)**Description**

Loans requiring collateral in order to get the financing.

Survey Variable Used to Construct Indicator

This indicator is created from the variables K.8 and K.13.

| | |
|------------|---|
| K.8 | At this time, does this establishment have a line of credit or a loan from a financial institution? |
|------------|---|

| | | |
|---------------------------------|-----------|-----------------------------|
| Yes | 1 | |
| No | 2 | <i>GO TO QUESTION K.15d</i> |
| Don't know (spontaneous) | -9 | <i>GO TO QUESTION K.15d</i> |

k8

| | |
|-------------|--|
| K.13 | Referring only to this most recent loan or line of credit, did the financing require collateral? |
|-------------|--|

| | | |
|---------------------------------|-----------|-----------------------------|
| Yes | 1 | |
| No | 2 | <i>GO TO QUESTION K.15b</i> |
| Don't know (spontaneous) | -9 | <i>GO TO QUESTION K.15b</i> |

k13

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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FINANCE

[fin16] Percent of firms Identifying Access to Finance as a Major Constraint

Description

Percentage of firms identifying access/cost of finance as a "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.30

K.30 Using the response options on the card; To what degree is **Access to Finance** an obstacle to the current operations of this establishment? [SHOW CARD 19](#)

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|---------------------------------|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Access to finance k30 | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

May 2, 2011 [Changes to ECA 2002 & 2005 surveys](#)

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[fin15] Percent of Firms With a Checking or Savings Account**Description**

Percentage of firms with a checking or savings account.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.6.

| | |
|------------|---|
| K.6 | Now let's talk about the establishment's current situation. At this time, does this establishment have a checking or savings account? |
|------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

| |
|-----------|
| k6 |
|-----------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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[fin17] Proportion of Sales that are Pre-paid (%)**Description**

Percentage of total annual sales of goods or services paid for before the delivery.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.2 (k2a). Only created for global surveys before 2010.

| | Percent | Don't know (spontaneous) |
|-------------------------------|---------|-----------------------------|
| Paid for before the delivery? | k2a % | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

May 2, 2011

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[fin18] Proportion of Sales Sold on Credit (%)**Description**

Percentage of total annual sales of goods or services sold on credit.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.2

| | |
|------------|---|
| K.2 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's total annual sales of its goods or services were paid for after delivery? |
|------------|---|

| | Percent | Don't know (spontaneous) |
|--------------------------|---------|-----------------------------|
| Paid for after delivery? | k2c % | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[fin20] Percent of firms not needing a loan**Description**

Percent of firms that did not apply for a loan in the last fiscal year because they did not need a loan. The denominator is the number of firms who did and did not apply for a loan. The numerator is the number of firms who did not apply for a loan and also stated that they did not need a loan.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.16 and K.17

| | |
|-------------|--|
| K.16 | Referring again to the last fiscal year [insert last complete fiscal year] , did this establishment apply for any loans or lines of credit? |
|-------------|--|

| | | |
|---------------------------------|-----------|----------------------------|
| Yes | 1 | <i>GO TO QUESTION K.20</i> |
| No | 2 | |
| DON'T KNOW (SPONTANEOUS) | -9 | <i>GO TO QUESTION K.21</i> |
| | | k16 |

| | |
|-------------|---|
| K.17 | What was the main reason why this establishment did not apply for any line of credit or loan? SHOW CARD 18 |
|-------------|---|

| | |
|---|------------|
| No need for a loan - establishment had sufficient capital | 1 |
| Application procedures were complex | 2 |
| Interest rates were not favorable | 3 |
| Collateral requirements were too high | 4 |
| Size of loan and maturity were insufficient | 5 |
| Did not think it would be approved | 6 |
| Other | 7 |
| Don't know (spontaneous) | -9 |
| | k17 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|-------------------|
| May 1, 2012 | Indicator Created |
| | |

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[fin21] Percent of firms whose recent loan application was rejected**Description**

Percent of firms whose recent loan application was rejected.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.16 and K.20

| | |
|-------------|--|
| K.16 | Referring again to the last fiscal year [insert last complete fiscal year] , did this establishment apply for any loans or lines of credit? |
|-------------|--|

| | | |
|---------------------------------|-----------|----------------------------|
| Yes | 1 | GO TO QUESTION K.20 |
| No | 2 | |
| DON'T KNOW (SPONTANEOUS) | -9 | GO TO QUESTION K.21 |

k16

| | |
|-------------|--|
| K.20 | Referring only to this most recent application for a line of credit or loan, what was the outcome of that application? |
|-------------|--|

| | | |
|-------------------------------------|-----------|--|
| Application was approved | 1 | |
| Application was rejected | 2 | |
| APPLICATION STILL IN PROCESS | -6 | |
| DON'T KNOW (SPONTANEOUS) | -9 | |

k20a

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|----------------|-------------------|
| April 17, 2012 | Indicator Created |
|----------------|-------------------|

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INFRASTRUCTURE

A strong infrastructure enhances the competitiveness of an economy and generates a business environment conducive to firm growth and development. Good infrastructure efficiently connects firms to their customers and suppliers, and enables the use of modern production technologies. Conversely, deficiencies in infrastructure create barriers to productive opportunities and increase costs for all firms, from micro enterprises to large multinational corporations.

The Enterprise Surveys capture the dual challenge of providing a strong infrastructure for electricity, water supply, telephone connections, etc., and the development of institutions that effectively provide and maintain public services. These indicators show the extent to which firms are faced with failures in the provision of electricity and the effect of these failures on sales. Inadequate electricity supply can increase costs, disrupt production, and reduce profitability. Additionally, these indicators measure the efficiency of the water supply for the manufacturing sector. Many manufacturing sectors depend on reliable and efficient sources of water for their operations. The indicators can also be used to evaluate the efficiency of infrastructure services by quantifying the delays in obtaining electricity, water, and telephone connections. Service delays impose additional costs on firms and may act as barriers to entry and investment.

[in1] Delay in Obtaining an Electrical Connection (upon application)**Description**

Average wait, in days, experienced to obtain electrical connection from the day this establishment applied for it to the day it received the service.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.4

| | |
|------------|--|
| C.4 | In reference to that application for an electrical connection, approximately how many days did it take to obtain it from the day of the application to the day the service was received? |
|------------|--|

| | Days |
|---------------------------------|-----------|
| Wait for electrical connection | c4 |
| Less than one day | 1 |
| Still in process | -6 |
| Application denied | -5 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c4 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c4 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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INFRASTRUCTURE

[in2] Number of Electrical Outages in a Typical Month

Description

Average number of power outages in a typical month.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.6 and C.7. If the answer to C.6 is “No”, then a zero is recorded for the number of power outages.

| | |
|-----|--|
| C.6 | Over fiscal year [insert last complete fiscal year] , did this establishment experience power outages? |
|-----|--|

| | | |
|---------------------------------|----|----------------------------|
| Yes | 1 | <i>GO TO QUESTION C.10</i> |
| No | 2 | |
| Don't know (spontaneous) | -9 | |

GO TO QUESTION C.10

| |
|----|
| c6 |
|----|

| | |
|-----|---|
| C.7 | In a typical month, over fiscal year [insert last complete fiscal year] , how many power outages did this establishment experience? |
|-----|---|

| | Number | |
|---|--------|----------------------------------|
| Average number of power outages per month | c7 | <i>IF 0, GO TO QUESTION C.10</i> |
| Don't know (spontaneous) | -9 | |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c7 |
| July 6, 2009 | For Congo 2009 survey, replaced in2 as missing if the number of power outages reported is over 150, or the duration is over 24 hours. |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c7 |

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INFRASTRUCTURE

[in3] Duration of a Typical Electrical Outages (hours)

Description

Average duration of power outages (hours).

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.7 and C.8. If the respondent answered c7=0, then average duration of power outages is recorded as 0.

| | |
|-----|--|
| C.7 | In a typical month, over fiscal year [insert last complete fiscal year] , how many power outages did this establishment experience? |
|-----|--|

| | Number |
|---|-----------|
| Average number of power outages per month | c7 |
| Don't know (spontaneous) | -9 |

IF 0, GO TO QUESTION C.10

| | |
|-----|---|
| C.8 | How long did these power outages last on average? |
|-----|---|

| | Hours |
|-----------------------------------|-----------|
| Average duration of power outages | c8 |
| Less than one hour | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c8 |
| November 10, 2009 | Replace indicator value for in3 to be zero if the average number of power outages per month is zero. |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c8 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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INFRASTRUCTURE

[in3_c] If there were outages, Average Duration of a Typical Electrical Outages (hours)

Description

Average duration of power outages (hours) conditional on having a power outage.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.8

| | |
|------------|---|
| C.8 | How long did these power outages last on average? |
|------------|---|

| | Hours |
|-----------------------------------|-----------|
| Average duration of power outages | c8 |
| Less than one hour | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| November 10, 2009 | Indicator Created |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c8 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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INFRASTRUCTURE

[in15] Average total time of power outages per month

Description

Average total time of power outages per month and includes zero values.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.7 and C.8

| | |
|-----|--|
| C.7 | In a typical month, over fiscal year [insert last complete fiscal year] , how many power outages did this establishment experience? |
|-----|--|

| | Number |
|---|-----------|
| Average number of power outages per month | c7 |
| Don't know (spontaneous) | -9 |

IF 0, GO TO QUESTION C.10

| | |
|-----|---|
| C.8 | How long did these power outages last on average? |
|-----|---|

| | Hours |
|-----------------------------------|-----------|
| Average duration of power outages | c8 |
| Less than one hour | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c7 |
| August 20, 2009 | Replace indicator in15 as 720 if the answers are more than 720 hours. |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c7 |

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INFRASTRUCTURE

[in4] Losses due to electrical outages (% of annual sales)

Description

Losses due to electrical outages, as percentage of total annual sales.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.9. If the respondent answered C.9B, then the value was divided by sales (D.2).

| | |
|------------|---|
| C.9 | Please estimate the losses that resulted from power outages either as a percentage of total annual sales or as total annual losses. |
|------------|---|

| | Percent |
|---|--------------|
| Loss as percentage of total annual sales due to power outages | c9a % |
| None | 0 |
| Don't know (spontaneous) | -9 |

PROVIDE EITHER ONE OR THE OTHER, NOT BOTH

| | LCUs |
|------------------------------------|------------|
| Annual losses due to power outages | c9b |
| None | 0 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables d2, c9b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables d2, c9a, c9b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| April 18, 2012 | Indicator is altered to include all firms not just those who experienced at least one power outage. See indicator [in4_c] for losses among firms who experienced at least one power outage. |

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INFRASTRUCTURE

[in4_c] If there were outages, average losses due to electrical outages (% of annual sales)

Description

If there were outages, average losses due to electrical outages, as percentage of total annual sales.

Survey Variable Used to Construct Indicator

This indicator is calculated only for firms who responded yes to question C.6. This indicator is created from the variable C.9. If the respondent answered C.9B, then the value was divided by sales (D.2).

C.6 Over fiscal year **[insert last complete fiscal year]**, did this establishment experience power outages?

| | | |
|---------------------------------|-----------|----------------------------|
| Yes | 1 | <i>GO TO QUESTION C.10</i> |
| No | 2 | |
| DON'T KNOW (SPONTANEOUS) | -9 | |

c6

C.9 Please estimate the losses that resulted from power outages either as a percentage of total annual sales or as total annual losses.

| | Percent |
|---|---------|
| Loss as percentage of total annual sales due to power outages | c9a % |
| None | 0 |
| Don't know (spontaneous) | -9 |

PROVIDE EITHER ONE OR THE OTHER, NOT BOTH

| | LCUs |
|------------------------------------|------|
| Annual losses due to power outages | c9b |
| None | 0 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables d2, c9b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables d2, c9a, c9b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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INFRASTRUCTURE

[in5] Delay in Obtaining a Water Connections (days)

Description

Average wait, in days, experienced to obtain a water connection from the day this establishment applied for it to the day it received the service.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.13.

| | |
|-------------|--|
| C.13 | In reference to that application for a water connection, approximately how many days did it take to obtain it from the day of the application to the day the service was received? |
|-------------|--|

| | Days |
|---------------------------------|------------|
| Wait for water connection | c13 |
| Less than one day | 1 |
| Still in process | -6 |
| Application denied | -5 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c13 |
| December 15, 2009 | For Cameroon 2006 and Cape Verde 2006 surveys, c13 was replaced with missing if c13 is larger than 180. |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c13 |

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INFRASTRUCTURE

[in6] Number of Water Insufficiencies in a Typical Month*

Description

Average number of water shortages in a typical month in the last fiscal year.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.16.

| | |
|-------------|---|
| C.16 | In a typical month, over fiscal year [insert last complete fiscal year] , how many incidents of insufficient water supply did this establishment experience? |
|-------------|---|

| | Number |
|--|------------|
| Average number of incidents of water insufficiency per month | c16 |
| Don't know (spontaneous) | -9 |

IF 0, GO TO QUESTION C.18

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| Update Date | Description |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c16 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c16 |

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INFRASTRUCTURE

[in7] Duration of Insufficient Water Supplies (hours)*

Description

Average duration of the water shortage in hours.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.16 and C.17

| | |
|-------------|---|
| C.16 | In a typical month, over fiscal year [insert last complete fiscal year] , how many incidents of insufficient water supply did this establishment experience? |
|-------------|---|

| | Number |
|--|------------|
| Average number of incidents of water insufficiency per month | c16 |
| Don't know (spontaneous) | -9 |

IF 0, GO TO QUESTION C.18

| | |
|-------------|--|
| C.17 | How long did these incidents of insufficient water supply last on average? |
|-------------|--|

| | Hours |
|---|------------|
| Average duration of insufficient water supply | c17 |
| Less than one hour | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c16 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c16 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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INFRASTRUCTURE

[in7_c] If there were shortages, Average Duration of the Water Shortage (hours)*

Description

If there were shortages, average duration of the water shortage in hours. Zero hours are not included.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.17

| | |
|-------------|--|
| C.17 | How long did these incidents of insufficient water supply last on average? |
|-------------|--|

| | Hours |
|---|--------------|
| Average duration of insufficient water supply | c17 |
| Less than one hour | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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INFRASTRUCTURE

[in8] Delay in Obtaining a Mainline Telephone Connection (days)

Description

Average wait, in days, experienced to obtain a mainline telephone connection from the day this establishment applied for it to the day it received the service.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.20.

| | |
|-------------|--|
| C.20 | In reference to that application for a telephone connection, approximately how many days did it take to obtain it from the day of the application to the day the service was received? |
|-------------|--|

| | Days |
|---------------------------------|------------|
| Wait for telephone connection | c20 |
| Less than one day | 1 |
| Still in process | -6 |
| Application denied | -5 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable c20 |
| December 15, 2009 | For Cameroon 2006 and Cape Verde 2006 surveys, c20 was replaced to missing if c20 is larger than 180.. |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c20 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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INFRASTRUCTURE

[in9] Percent of Firms Owning or Sharing a Generator*

Description

Percentage of firms owning or sharing a generator.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.10.

| | |
|-------------|--|
| C.10 | Over the course of fiscal year [insert last complete fiscal year] , did this establishment own or share a generator? |
|-------------|--|

| | | |
|---------------------------------|-----------|----------------------------|
| Yes | 1 | |
| No | 2 | <i>GO TO QUESTION C.12</i> |
| Don't know (spontaneous) | -9 | <i>GO TO QUESTION C.12</i> |

c10

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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INFRASTRUCTURE

[in10] Proportion of Electricity from a Generator (%) *

Description

Percentage of electricity supplied from a generator or generators that the establishment owned or shared.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.10 and C.11.

C.10 Over the course of fiscal year [\[insert last complete fiscal year\]](#), did this establishment own or share a generator?

| | | |
|---------------------------------|-----------|----------------------------|
| Yes | 1 | |
| No | 2 | <i>GO TO QUESTION C.12</i> |
| Don't know (spontaneous) | -9 | <i>GO TO QUESTION C.12</i> |
| | | c10 |

C.11 In fiscal year [\[insert last complete fiscal year\]](#), what percentage of this establishment's electricity came from a generator or generators that the establishment owned or shared?

| | Percent |
|--|--------------|
| Percentage electricity from generators | c11 % |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| November 10,2009 | Replace indicator in10 as zero if the establishment did not own or share a generator. |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c11 |

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INFRASTRUCTURE

[in10_c] If a generator is used, average proportion of Electricity from Generator (%) *

Description

If a generator is used, what percentage of electricity comes from a generator

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.11

| | |
|-------------|---|
| C.11 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's electricity came from a generator or generators that the establishment owned or shared? |
|-------------|---|

| | Percent |
|--|---------|
| Percentage electricity from generators | c11 % |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| November 10, 2009 | Indicator Created |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable c11 |
| | |

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[in11] Percent of Firms Identifying Transportation as a Major Constraint**Description**

Percentage of firms identifying transportation as a major constraint. The computation of the indicator is based on the rating of the obstacle as a potential constraint to the current operations of the establishment.

Survey Variable Used to Construct Indicator

This indicator is created from the variables D.30.

| | |
|-------------|--|
| D.30 | Using the response options on the card; To what degree is Transport an obstacle to the current operations of this establishment? SHOW CARD 8 |
| | Using the response options on the card; To what degree is Customs and Trade Regulation an obstacle to the current operations of this establishment? SHOW CARD 8 |

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Don't Know (spontaneous) | Does Not Apply (spontaneous) |
|--------------------------|-------------|----------------|-------------------|----------------|----------------------|--------------------------|------------------------------|
| Transport d30a | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

May 2, 2011

[Changes to ECA 2002 & 2005 surveys](#)

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[in12] Percent of Firms Identifying Electricity as a Major Constraint**Description**

Percentage of firms identifying electricity as a major constraint. The computation of the indicator is based on the rating of the obstacle as a potential constraint to the current operations of the establishment.

Survey Variable Used to Construct Indicator

This indicator is created from the variables C.30.

| | |
|-------------|--|
| C.30 | Using the response options on the card; To what degree is Electricity an obstacle to the current operations of this establishment? SHOW CARD 4 |
| | Using the response options on the card; To what degree is Telecommunications an obstacle to the current operations of this establishment? SHOW CARD 4 |

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Don't Know (spontaneous) | Does Not Apply (spontaneous) |
|----------------------------|-------------|----------------|-------------------|----------------|----------------------|---------------------------------|-------------------------------------|
| Electricity c30a | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

May 2, 2011

[Changes to ECA 2002 & 2005 surveys](#)

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INFRASTRUCTURE

[in14] Proportion of products lost to breakage or spoilage during shipping to domestic markets (%)*

Description

Percentage of products shipped to supply domestic markets lost due to breakage or spoilage.

Survey Variable Used to Construct Indicator

This indicator is created from the variables D.11.

| | |
|-------------|---|
| D.11 | In fiscal year [insert last complete fiscal year] , what percentage of value of products this establishment shipped to supply domestic markets was lost while in transit because of breakage or spoilage? |
|-------------|---|

| | Percent |
|---|--------------|
| Losses due to breakage or spoilage as percentage of the value of the products | d11 % |
| No losses | 0 |
| Don't know (spontaneous) | -9 |
| No internal shipments made | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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INNOVATION AND TECHNOLOGY

The Enterprise Surveys provide indicators that describe several dimensions of technology use and innovation. These indicators measure the extent to which firms invest in obtaining recognized certificates of production and accounting practices. Obtaining international quality certifications may support creating more efficient or effective operations and improve employee's motivation, awareness, and morale. They also provide a sign of high quality that may help reduce waste and increase productivity. Additionally, these indicators demonstrate the use of information and communications technologies (ICT) in business transactions. ICT, such as the Internet, are important tools for all firms because they provide even the smallest of enterprises with the ability to reach national and international markets at lower cost.

[t1] Percent of Firms With Internationally-Recognized Quality Certification

Description

Percentage of firms that have an internationally-recognized quality certification, i.e. ISO 9000, 9002 or 14000.

Survey Variable Used to Construct Indicator

This indicator is created from the variable B.8

| | |
|------------|--|
| B.8 | Does this establishment have an internationally-recognized quality certification? (INTERVIEWER: if there is need for clarification, some examples are: ISO 9000 or 14000, or HAPC) |
|------------|--|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Still in process | -6 |
| Don't know (spontaneous) | -9 |

b8

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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[t2] Percent of Firms with Annual Financial Statement Reviewed by External Auditor

Description

Percentage of firms with their annual financial statement reviewed by an external auditor.

Survey Variable Used to Construct Indicator

This indicator is created from the variable K.21.

| | |
|-------------|---|
| K.21 | In fiscal year [insert last complete fiscal year] , did this establishment have its annual financial statements checked and certified by an external auditor? |
|-------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

K21

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[t3] Capacity Utilization (%) *

Description

Capacity utilization based on comparison of the current output with the maximum output possible using the current inputs.

Survey Variable Used to Construct Indicator

This indicator is created from the variable F.1.

| | |
|------------|--|
| F.1 | In fiscal year [insert last complete fiscal year] , what was this establishment's output produced as a proportion of the maximum output possible if using all the resources available (capacity utilization)? |
|------------|--|

| | Percent |
|---------------------------------|----------------|
| Capacity utilization | f1 % |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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[t4] Percent of Firms Using Technology Licensed from Foreign Companies *

Description

Percentage of firms using technology licensed from foreign companies.

Survey Variable Used to Construct Indicator

This indicator is created from the variable E.6.

| | |
|------------|---|
| E.6 | Does this establishment at present use technology licensed from a foreign-owned company, excluding office software? |
|------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

e6

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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[t5] Percent of Firms Having its Own Website**Description**

Percentage of firms using website for business related activities, i.e. sales, product promotion etc.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.22b

| | |
|--------------|---|
| C.22b | At the present time, does this establishment use its own website? |
|--------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

c22b

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[t6] Percent of Firms Using E-mail to Communicate with Clients/suppliers

Description

Percentage of firms using email to interact with clients or suppliers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable C.22a.

| | |
|--------------|---|
| C.22a | At the present time, does this establishment use e-mail to communicate with clients or suppliers? |
|--------------|---|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

c22a

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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TRADE

Open markets allow firms to expand, raise standards for efficiency on exporters, and enable firms to import low cost supplies. However, trading also forces firms to deal with customs services and trade regulations, obtain export and import licenses, and in some cases, firms also face additional costs due to losses during transport. The Enterprise Surveys collect information on the operational constraints faced by exporters and importers and also quantifies the trade activity of firms. Indicators provide a measure of the intensity of foreign trade in the private sector.

[tr1] Days to Clear Direct Exports Through Customs**Description**

Average number of days to clear direct exports through customs.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.4

| | |
|------------|---|
| D.4 | In fiscal year [insert last complete fiscal year] , when this establishment exported goods directly, how many days did it take on average from the time this establishment's goods arrived at their main point of exit (e.g., port, airport) until the time these goods cleared customs? |
|------------|---|

| | Days |
|---|-------------|
| Average number of days to clear customs | d4 |
| Less than one day | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable d4 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable d4 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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[tr2] Days to Clear Imports from Customs***Description**

Average number of days to clear imports from customs.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.14.

| | |
|-------------|---|
| D.14 | In fiscal year [insert last complete fiscal year] , when this establishment imported material inputs or supplies, how many days did it take on average from the time these goods arrived to their point of entry (e.g. port, airport) until the time these goods could be claimed from customs? |
|-------------|---|

| | Days |
|--|------------|
| Average number of days to clear customs | d14 |
| Less than one day | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable d14 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable d14 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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TRADE

[tr4] Proportion of total sales that are domestic sales (%)

Description

Domestic sales as percentage of total sales.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.3a.

| | |
|------------|---|
| D.3 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's sales were: (INTERVIEWER: these must be asked in the order they appear on the table) SHOW CARD 6 |
|------------|---|

| | Percent | Don't know (spontaneous) | |
|---|---------|-----------------------------|------------------------------------|
| National sales | d3a % | -9 | <i>IF 100, GO TO QUESTION D.10</i> |
| Indirect exports (sold domestically to third party that exports products) | | -9 | <i>IF 100, GO TO QUESTION D.8</i> |
| Direct exports | | -9 | <i>IF 0, GO TO QUESTION D.8</i> |
| | 100% | | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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TRADE

[tr5] Proportion of total sales that are exported directly (%)

Description

Sales exported directly as percentage of total sales.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.3c.

| | |
|------------|---|
| D.3 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's sales were: (INTERVIEWER: these must be asked in the order they appear on the table) SHOW CARD 6 |
|------------|---|

| | Percent | Don't know (spontaneous) | |
|---|-------------|-----------------------------|------------------------------------|
| National sales | | -9 | <i>IF 100, GO TO QUESTION D.10</i> |
| Indirect exports (sold domestically to third party that exports products) | | -9 | <i>IF 100, GO TO QUESTION D.8</i> |
| Direct exports | d3c% | -9 | <i>IF 0, GO TO QUESTION D.8</i> |
| | 100% | | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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[tr6] Proportion of total sales that are exported indirectly (%)**Description**

Sales exported indirectly as percentage of total sales.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.3b.

| | |
|------------|---|
| D.3 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's sales were: (INTERVIEWER: these must be asked in the order they appear on the table) SHOW CARD 6 |
|------------|---|

| | Percent | Don't know (spontaneous) | |
|---|-------------|-----------------------------|------------------------------------|
| National sales | | -9 | <i>IF 100, GO TO QUESTION D.10</i> |
| Indirect exports (sold domestically to third party that exports products) | d3b% | -9 | <i>IF 100, GO TO QUESTION D.8</i> |
| Direct exports | | -9 | <i>IF 0, GO TO QUESTION D.8</i> |
| | 100% | | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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[tr15] Percent of firms exporting directly (at least 1% of sales)**Description**

Percentage of Firms that Export Directly.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.3c.

| | |
|------------|---|
| D.3 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's sales were: (INTERVIEWER: these must be asked in the order they appear on the table) SHOW CARD 6 |
|------------|---|

| | Percent | Don't know (spontaneous) | |
|---|-------------|-----------------------------|------------------------------------|
| National sales | | -9 | <i>IF 100, GO TO QUESTION D.10</i> |
| Indirect exports (sold domestically to third party that exports products) | | -9 | <i>IF 100, GO TO QUESTION D.8</i> |
| Direct exports | d3c % | -9 | <i>IF 0, GO TO QUESTION D.8</i> |
| | 100% | | |

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|---------------|--|
| July 29, 2009 | Indicator Created. |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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TRADE

[tr10] Percent of firms exporting directly or indirectly (at least 1% of sales)

Description

Percentage of firms that export directly or indirectly.

Survey Variable Used to Construct Indicator

This indicator is created from the variables D.3b and D.3c.

| | |
|------------|---|
| D.3 | In fiscal year [insert last complete fiscal year] , what percentage of this establishment's sales were: (INTERVIEWER: these must be asked in the order they appear on the table) SHOW CARD 6 |
|------------|---|

| | Percent | Don't know (spontaneous) | |
|---|--------------|-----------------------------|------------------------------------|
| National sales | | -9 | <i>IF 100, GO TO QUESTION D.10</i> |
| Indirect exports (sold domestically to third party that exports products) | d3b % | -9 | <i>IF 100, GO TO QUESTION D.8</i> |
| Direct exports | d3c % | -9 | <i>IF 0, GO TO QUESTION D.8</i> |
| | 100% | | |

INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%

(UNLESS RESPONDENT DOES NOT KNOW)

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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TRADE

[tr7] Proportion of total inputs that are of domestic origin (%)*

Description

Percentage of material inputs and/or supplies of domestic origin.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.12a.

| | |
|-------------|---|
| D.12 | In fiscal year [insert last complete fiscal year] , as a proportion of all material inputs or supplies purchased that year, what percentage of this establishment's material inputs or supplies were: SHOW CARD 7 |
|-------------|---|

| | Percent | Don't know (spontaneous) |
|--|---------------|-----------------------------|
| Material inputs or supplies of domestic origin | d12a % | -9 |
| Material inputs or supplies of foreign origin | | -9 |
| | 100% | |

IF 0, GO TO QUESTION D.16

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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TRADE

[tr8] Proportion of total inputs that are of foreign origin (%)*

Description

Percentage of material inputs and/or supplies of foreign origin.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.12b.

| | |
|-------------|---|
| D.12 | In fiscal year [insert last complete fiscal year] , as a proportion of all material inputs or supplies purchased that year, what percentage of this establishment's material inputs or supplies were: SHOW CARD 7 |
|-------------|---|

| | Percent | Don't know (spontaneous) |
|--|---------------|-----------------------------|
| Material inputs or supplies of domestic origin | | -9 |
| Material inputs or supplies of foreign origin | d12b % | -9 |
| | 100% | |

IF 0, GO TO QUESTION D.16

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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TRADE

[tr11] Percent of firms using material inputs and/or supplies of foreign origin*

Description

Percentage of firms that use material inputs and/or supplies of foreign origin.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.12b.

| | |
|-------------|---|
| D.12 | In fiscal year [insert last complete fiscal year] , as a proportion of all material inputs or supplies purchased that year, what percentage of this establishment's material inputs or supplies were: SHOW CARD 7 |
|-------------|---|

| | Percent | Don't know (spontaneous) |
|--|---------------|-----------------------------|
| Material inputs or supplies of domestic origin | | -9 |
| Material inputs or supplies of foreign origin | d12b % | -9 |
| | 100% | |

IF 0, GO TO QUESTION D.16

**INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%
(UNLESS RESPONDENT DOES NOT KNOW)**

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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TRADE

[tr9] Percent of firms identifying customs and trade regulations as a major constraint

Description

Percentage of firms identifying customs and trade regulations as a "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.30b.

| | |
|-------------|--|
| D.30 | Using the response options on the card; To what degree is Transport an obstacle to the current operations of this establishment? SHOW CARD 8 |
| | Using the response options on the card; To what degree is Customs and Trade Regulation an obstacle to the current operations of this establishment? SHOW CARD 8 |

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Don't Know (spontaneous) | Does Not Apply (spontaneous) |
|---|-------------|----------------|-------------------|----------------|----------------------|--------------------------|------------------------------|
| Transport | 0 | 1 | 2 | 3 | 4 | -9 | -7 |
| Customs and trade regulations d30b | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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TRADE

[tr14] Days of inventory of main input*

Description

Days of inventory of the most important input.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.16.

| | |
|-------------|--|
| D.16 | At the present time, when this establishment receives delivery of its most important input, on average, how many days of inventory, measured in days of production, does this establishment keep? (INTERVIEWER: if respondent requires clarification, define days of inventory as stock on hand) |
|-------------|--|

| | Days |
|---|------------|
| Days of inventory of most important input | d16 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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[tr12] Products exported directly lost due to theft (%)**Description**

Losses of the products shipped to international markets while in transit because of theft (computed as percentage of the consignment values).

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.6.

| | |
|------------|---|
| D.6 | In fiscal year [insert last complete fiscal year] , what percentage of the value of the products exported directly was lost while in transit because of theft? |
|------------|---|

| | Percent |
|--|----------------|
| Losses due to theft as percentage of the value of the products | d6 % |
| No losses | 0 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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[tr13] Products exported directly lost due to breakage or spoilage (%)**Description**

Losses of the products shipped to international markets while in transit due to breakage or spoilage, computed as percentage of the consignment values.

Survey Variable Used to Construct Indicator

This indicator is created from the variable D.7.

| | |
|------------|--|
| D.7 | In fiscal year [insert last complete fiscal year] , what percentage of the value of the products exported directly was lost while in transit because of breakage or spoilage? |
|------------|--|

| | Percent |
|---|----------------|
| Losses due to breakage or spoilage as percentage of the value of the products | d7 % |
| No losses | 0 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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WORKFORCE

The Enterprise Surveys provide indicators that describe information on the characteristics of the workforce employed in the non-agricultural private economy. The set of indicators presents the composition of the firm's workforce by type of contract and gender, the composition of the workforce classified into temporary and permanent workers, and reflects the participation of women in regular full-time employment. Labor regulations have a direct effect on the type of employment favored by firms and they may have a different impact by gender.

WORKFORCE

[wk1] Percent of firms offering formal training

Description

Percentage of firms offering formal training programs for its permanent, full-time employees.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.10.

| | |
|-------------|--|
| L.10 | Over fiscal year [insert last complete fiscal year] , did this establishment have formal training programs for its permanent, full-time employees? |
|-------------|--|

| | |
|---------------------------------|-----------|
| Yes | 1 |
| No | 2 |
| Don't know (spontaneous) | -9 |

GO TO QUESTION I30a

GO TO QUESTION I30a

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Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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WORKFORCE

[wk2] Proportion of workers offered formal training (%) *

Description

Percentage of permanent, full-time employees that have received formal training.

Survey Variable Used to Construct Indicator

This indicator is created from the variables L.1, L.3a, L.3b, L.11a, L.11b.

| | |
|------------|---|
| L.1 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals worked in this establishment? Please include all employees and managers (Permanent, full-time employees are defined as all paid employees that are contracted for a term of one or more fiscal years and/or have a guaranteed renewal of their employment contract and that work 8 or more hours per day) (INTERVIEWER: include interviewee if applicable). |
|------------|---|

| | Number |
|--|-----------|
| Permanent, full-time workers end of last fiscal year | 11 |
| Don't know (spontaneous) | -9 |

| | |
|------------|--|
| L.3 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals in this establishment were: INTERVIEWER: READ EACH CATEGORY |
|------------|--|

| | Number | Don't know (spontaneous) |
|--|------------|--------------------------|
| Production workers | 13a | -9 |
| Non-production workers [e.g., managers, administration, sales] | 13b | -9 |

| | |
|-------------|---|
| L.11 | Referring to the training programs run over fiscal year [insert last complete fiscal year] , what percentage of permanent, full-time employees of the following categories received formal training? |
|-------------|---|

| | Percent | If no employees in a category were trained | Don't know (spontaneous) |
|--|---------------|--|--------------------------|
| Production full-time permanent employees trained | 111a % | 0 | -9 |
| Non-production full-time permanent employees trained | 111b % | 0 | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables 11, 13a, 13b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables 11, 13a, 13b |

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WORKFORCE

[wk3] Number of permanent skilled production workers*

Description

Average number of skilled production workers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.4a.

| | |
|------------|---|
| L.4 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals working in this establishment were: INTERVIEWER: READ EACH CATEGORY |
|------------|---|

| | Number | Don't know (spontaneous) |
|------------------------------|------------|-----------------------------|
| Skilled production workers | l4a | -9 |
| Unskilled production workers | | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable l4a |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable l4a |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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WORKFORCE

[wk4] Number of Unskilled Production Workers *

Description

Average number of unskilled production workers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.4b.

| | |
|------------|---|
| L.4 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals working in this establishment were: INTERVIEWER: READ EACH CATEGORY |
|------------|---|

| | Number | Don't know (spontaneous) |
|------------------------------|------------|-----------------------------|
| Skilled production workers | | -9 |
| Unskilled production workers | l4b | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable l4b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable l4b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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WORKFORCE

[wk6] Number of Permanent Production Workers*

Description

Average number of production workers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.3a.

| | |
|------------|---|
| L.3 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals in this establishment were: INTERVIEWER: READ EACH CATEGORY |
|------------|---|

| | Number | Don't know (spontaneous) |
|--|------------|-----------------------------|
| Production workers | I3a | -9 |
| Non-production workers [e.g., managers, administration, sales] | | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable I3a |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable I3a |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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WORKFORCE

[wk7] Number of Permanent Non-Production Workers*

Description

Average number of non production workers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.3b.

| | |
|------------|---|
| L.3 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals in this establishment were: INTERVIEWER: READ EACH CATEGORY |
|------------|---|

| | Number | Don't know (spontaneous) |
|--|------------|-----------------------------|
| Production workers | | -9 |
| Non-production workers [e.g., managers, administration, sales] | 13b | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|--|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable 13b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable 13b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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WORKFORCE

[wk8] Years of the top manager's experience working in the firm's sector

Description

Years of experience of the top manager working in the sector.

Survey Variable Used to Construct Indicator

This indicator is created from the variable B.7.

| | |
|------------|--|
| B.7 | How many years of experience working in this sector does the Top Manager have? |
|------------|--|

| | Years |
|---------------------------------|-----------|
| Manager's experience in sector | b7 |
| Less than one year | 1 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|--|--|
| | |
| | |

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WORKFORCE

[wk9] Percent of firms identifying labor regulations as a major constraint

Description

Percentage of firms identifying labor regulations as a "major" or "very severe" obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.30a.

| | |
|-------------|---|
| L.30 | Using the response options on the card; To what degree are Labor Regulations an obstacle to the current operations of this establishment? |
| | Using the response options on the card; To what degree is an Inadequately Educated Workforce an obstacle to the current operations of this establishment? INTERVIEWER: SHOW CARD 22 |

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|----------------------------------|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Labor regulations I30a | 0 | 1 | 2 | 3 | 4 | -9 | -7 |
| Inadequately educated workforce | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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WORKFORCE

[wk10] Percent of firms identifying an inadequately educated workforce as a major constraint

Description

Percentage of firms identifying labor skill level as a major constraint. The computation of the indicator is based on the rating of the obstacle as a potential constraint to the current operations of the establishment.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.30b.

| | |
|-------------|---|
| L.30 | Using the response options on the card; To what degree are Labor Regulations an obstacle to the current operations of this establishment? |
| | Using the response options on the card; To what degree is an Inadequately Educated Workforce an obstacle to the current operations of this establishment? INTERVIEWER: SHOW CARD 22 |

| | No obstacle | Minor obstacle | Moderate obstacle | Major obstacle | Very Severe Obstacle | Do Not Know (spontaneous) | Does Not Apply (spontaneous) |
|---|-------------|----------------|-------------------|----------------|----------------------|---------------------------|------------------------------|
| Labor regulations | 0 | 1 | 2 | 3 | 4 | -9 | -7 |
| Inadequately educated workforce I30b | 0 | 1 | 2 | 3 | 4 | -9 | -7 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

For BEEPS surveys conducted prior to 2008, this question used a four-point scale instead of the current five-point answer scale. "Very Severe Obstacle" was not an answer option.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
| | |

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WORKFORCE

[wk11] Number of Temporary Workers

Description

Average number of temporary workers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.6.

| | |
|------------|--|
| L.6 | How many full-time temporary employees did this establishment employ throughout fiscal year [insert last complete fiscal year] ? (INTERVIEWER: Full-time, temporary workers are all paid short-term (i.e. for less than a fiscal year) employees with no guarantee of renewal of contract employment and work 8 or more hours per day) |
|------------|--|

| | Number |
|--|-----------|
| Full-time seasonal or temporary workers employed last fiscal year | 16 |
| Female full-time seasonal or temporary workers employed last fiscal year | |
| Don't know (spontaneous) | -9 |

IF 0, GO TO QUESTION L.9a

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable l6 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable l6 |

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WORKFORCE

[wk12] Number of Permanent Full Time Workers

Description

Average number of permanent, full time workers.

Survey Variable Used to Construct Indicator

This indicator is created from the variable L.1.

| | |
|------------|---|
| L.1 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals worked in this establishment? Please include all employees and managers (Permanent, full-time employees are defined as all paid employees that are contracted for a term of one or more fiscal years and/or have a guaranteed renewal of their employment contract and that work 8 or more hours per day) (INTERVIEWER: include interviewee if applicable). |
|------------|---|

| | Number |
|--|-----------|
| Permanent, full-time workers end of last fiscal year | 11 |
| Don't know (spontaneous) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variable l1 |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variable l1 |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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WORKFORCE

[wk13] Proportion of unskilled workers (out of all production workers) (%)*

Description

Percentage of Unskilled Workers (or ratio of skilled vs. unskilled)

Survey Variable Used to Construct Indicator

This indicator is created from the variables L.4a and L.4b.

| | |
|------------|---|
| L.4 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals working in this establishment were: INTERVIEWER: READ EACH CATEGORY |
|------------|---|

| | Number | Don't know (spontaneous) |
|------------------------------|------------|-----------------------------|
| Skilled production workers | l4a | -9 |
| Unskilled production workers | l4b | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| Summer 2009 | Outlier Program Change #1 affected outlier treatment on the variables l4a and l4b |
| November 18, 2010 | Outlier Program Change #2 affected outlier treatment on the variables l4a and l4b |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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FIRM CHARACTERISTICS

The Enterprise Surveys collect information from a representative sample of the non agricultural formal private economy. In addition to collecting information on the business environment the surveys collect information on the characteristics of the firms interviewed. Consequently, the data collected provides a description of the representative private firm in the country and also an estimate of how some of the attributes of the average firm are distributed across the population of firms.

Indicators show the distribution of firms according to their age measured by the number of years they have been in operation. The effect the business environment can have on the private sector may depend on firms' experience and longevity. Seasoned firms and young firms may differ in their ability to successfully navigate the business environment.

Indicators also provide an illustration of female participation in management and firm ownership. These indicators can help assess whether gender can be a determinant of the effect of regulations on the firm and the level of exposure of the firm to external factors, such as corruption, access to finance, and technology.

Finally, indicators show the participation of the domestic private sector, the government, the foreign sector and other sectors in the ownership of the typical firm. The distribution provides insight into their levels of equity in the private sector of the economy.

FIRM CHARACTERISTICS

[car1] Age (years)

Description

Age of the firm based on the year in which the firm began operations.

Survey Variable Used to Construct Indicator

This indicator is created from the variables B.5.

| | |
|------------|---|
| B.5 | In what year did this establishment begin operations in this country? |
|------------|---|

| | |
|-------------------------------------|-------------|
| | Year |
| Year establishment began operations | b5 |

INTERVIEWER: PROVIDE FOUR DIGITS FOR YEAR

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| June 30, 2009 | Adjustment: car1 takes only values less than 100 |
| February 28, 2011 | Adjustment: car1 can take on any values thus reversing the limitation imposed June 30, 2009. However, car1 is now subject to outliers removal whereby the variable is log-transformed and then trimmed at plus and minus 3 standard deviations from the mean for each survey. |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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FIRM CHARACTERISTICS

[car2] Proportion of private domestic ownership in a firm (%)

Description

Percentage of the firm owned by domestic individuals, companies or organizations.

Survey Variable Used to Construct Indicator

This indicator is created from the variables B.2a

| | |
|------------|---|
| B.2 | What percent of this firm is owned by each of the following: INTERVIEWER: SHOW CARD 2 |
|------------|---|

| | Percent |
|---|--------------|
| a. Private domestic individuals, companies or organizations | b2a % |
| b. Private foreign individuals, companies or organizations | |
| c. Government/State | |
| d. Other | |
| | 100% |

INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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FIRM CHARACTERISTICS

[car3] Proportion of private foreign ownership in a firm (%)

Description

Percentage of the firm owned by foreign individuals, companies or organizations.

Survey Variable Used to Construct Indicator

This indicator is created from the variables B.2b.

| | |
|------------|---|
| B.2 | What percent of this firm is owned by each of the following: INTERVIEWER: SHOW CARD 2 |
|------------|---|

| | Percent |
|---|--------------|
| a. Private domestic individuals, companies or organizations | |
| b. Private foreign individuals, companies or organizations | b2b % |
| c. Government/State | |
| d. Other | |
| | 100% |

INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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FIRM CHARACTERISTICS

[car4] Proportion of government/state ownership in a firm (%)

Description

Percentage of the firm owned by the government or state.

Survey Variable Used to Construct Indicator

This indicator is created from the variables B.2c.

| | |
|------------|---|
| B.2 | What percent of this firm is owned by each of the following: INTERVIEWER: SHOW CARD 2 |
|------------|---|

| | Percent |
|---|--------------|
| a. Private domestic individuals, companies or organizations | |
| b. Private foreign individuals, companies or organizations | |
| c. Government/State | b2c % |
| d. Other | |
| | 100% |

INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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FIRM CHARACTERISTICS

[car5] Proportion of other ownership in a firm (%)

Description

Percentage of the firm owned by other interests.

Survey Variable Used to Construct Indicator

This indicator is created from the variables B.2d.

| | |
|------------|---|
| B.2 | What percent of this firm is owned by each of the following: INTERVIEWER: SHOW CARD 2 |
|------------|---|

| | Percent |
|---|--------------|
| a. Private domestic individuals, companies or organizations | |
| b. Private foreign individuals, companies or organizations | |
| c. Government/State | |
| d. Other | b2d % |
| | 100% |

INTERVIEWER: CHECK THAT TOTAL SUMS TO 100%

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------|--|
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |
|-------------|--|

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FIRM CHARACTERISTICS

[car6] Proportion of a firm held by the largest owner(s) (%)

Description

Percentage held by largest owner or owners.

Survey Variable Used to Construct Indicator

This indicator is created from the variables B.3.

| | |
|------------|---|
| B.3 | What percent of this firm does the largest owner or owner(s) own? |
|------------|---|

| | |
|-------------------------------|----------------|
| | Percent |
| Percent held by largest owner | b3 % |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-------------------|---|
| February 28, 2011 | Please also note that for all countries, b3 was imputed with 100% when firm's legal status is Sole proprietorship and b3 was missing due to a skip pattern. This is a significant change as in many surveys answering positively to being a Sole Proprietorship caused a skip of question b3. |
| May 2, 2011 | Changes to ECA 2002 & 2005 surveys |

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THE BIGGEST OBSTACLE

The Enterprise Surveys collect mostly quantitative and factual information (the actual day-to-day experiences) from business owners and managers on a range of topics regarding the business environment. Towards the end of the survey interview, there is an opinion-based question asked to the survey respondent that pulls together the various survey topics. Firms are asked to consider which element (out of a list of 15) is the Biggest Obstacle to their establishment. The following group of indicators summarizes how many firms chose each of the various 15 elements. These indicators can aid policymakers in setting priorities when creating programs and policies aimed at improving the business-enabling environment.

THE BIGGEST OBSTACLE

[obst1] Access to Finance

Description

Percentage of establishments that consider access to finance to be the Biggest Obstacle

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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THE BIGGEST OBSTACLE

[obst2] Access to Land

Description

Percentage of establishments that consider access to land to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|--|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|--|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst3] Business licensing and permits

Description

Percentage of establishments that consider business licensing and permits to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst4] Corruption

Description

Percentage of establishments that consider corruption to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst5] Courts

Description

Percentage of establishments that consider courts to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst6] Crime, theft and disorder

Description

Percentage of establishments that consider crime, theft and disorder to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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THE BIGGEST OBSTACLE

[obst7] Customs and trade regulations

Description

Percentage of establishments that consider customs and trade regulations to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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THE BIGGEST OBSTACLE

[obst8] Electricity

Description

Percentage of establishments that consider electricity to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

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THE BIGGEST OBSTACLE

[obst9] Inadequately educated workforce

Description

Percentage of establishments that consider an inadequately educated workforce to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst10] Labor regulations

Description

Percentage of establishments that consider labor regulations to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst11] Political instability

Description

Percentage of establishments that consider political instability to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

M.1 By looking at card [**insert card number**] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment **SHOW CARD 25**
INTERVIEWER: DO NOT READ OUT

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst12] Practices of competitors in the informal sector

Description

Percentage of establishments that consider practices of competitors in the informal sector to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst13] Tax administration

Description

Percentage of establishments that consider the tax administration to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

M.1 By looking at card [**insert card number**] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment **SHOW CARD 25**
INTERVIEWER: DO NOT READ OUT

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst14] Tax rates

Description

Percentage of establishments that consider tax rates to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

| | |
|------------|---|
| M.1 | By looking at card [insert card number] can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment SHOW CARD 25 INTERVIEWER: DO NOT READ OUT |
|------------|---|

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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THE BIGGEST OBSTACLE

[obst15] Transport

Description

Percentage of establishments that consider transport to be the Biggest Obstacle.

Survey Variable Used to Construct Indicator

This indicator is created from the variables M.1.

M.1 By looking at card **[insert card number]** can you tell me which of the elements of the business environment included in the list, if any, currently represents the biggest obstacle faced by this establishment **SHOW CARD 25**
INTERVIEWER: DO NOT READ OUT

| |
|--|
| 1-Access to finance |
| 2-Access to land |
| 3-Business licensing and permits |
| 4-Corruption |
| 5-Courts |
| 6-Crime, theft and disorder |
| 7-Customs and trade regulations |
| 8-Electricity |
| 9-Inadequately educated workforce |
| 10-Labor regulations |
| 11-Political instability |
| 12-Practices of competitors in the informal sector |
| 13-Tax administration |
| 14-Tax rates |
| 15-Transport |

| | |
|-------------------------------------|------------|
| Biggest obstacle | m1a |
| DON'T KNOW (SPONTANEOUS) | -9 |
| DOES NOT APPLY (SPONTANEOUS) | -7 |

| | |
|-----------------------------|------------|
| Rotation (option 1, 2 or 3) | m1d |
|-----------------------------|------------|

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

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PERFORMANCE

In addition to collecting information on the business environment, Enterprise Surveys collect information on the performance of the firms interviewed. Firms are asked about their annual sales figures and number of permanent full-time employees at the end of the last fiscal year as well as three fiscal years ago.

Indicators show the performance of firms by growth in sales, employment, and labor productivity. All sales data have been converted to 2009 U.S. dollars for global comparability. While different countries will have different growth patterns, comparing performance within a country by firm size or industry or other firm subgroups can yield interesting insights for policymakers and researchers.

PERFORMANCE

[perf1] Real annual sales growth (%)

Description

Real annualized growth in sales (using GDP deflators) expressed as a percentage. Real annual sales growth is the change in sales reported in the current fiscal year from a previous period. For most countries the difference between the two fiscal year periods is two years. However, for some countries the interval is three years. Hence, an annualized measure is used. All sales data are also converted to 2009 USD. The formula is

$$\left(\frac{1}{t}\right) * \frac{d2 - n3}{(d2 + n3)/2}$$

where *t* is the number of years between the current and previous periods.

Survey Variable Used to Construct Indicator

This indicator is created from the variables D.2 and N.3.

| | |
|------------|--|
| D.2 | In fiscal year [insert last complete fiscal year] , what were this establishment's total annual sales for ALL products and services? |
|------------|--|

| | LCUs |
|---|------------|
| Last complete fiscal year's total sales | d2 |
| DON'T KNOW (SPONTANEOUS) | -9 |
| PLEASE ALSO WRITE OUT THE NUMBER (i.e. 50,000 as Fifty Thousand) | |
| | d2x |

| | |
|------------|---|
| N.3 | In fiscal year [insert three complete fiscal years ago] , three fiscal years ago, what were total annual sales for this establishment? |
|------------|---|

| | LCUs |
|---|-----------|
| Total annual sales three years ago | n3 |
| IF ESTABLISHMENT WAS NOT IN BUSINESS THREE YEARS AGO | -7 |
| DON'T KNOW (SPONTANEOUS) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-----------------|------------------------|
| January 3, 2012 | Added to ES Indicators |
|-----------------|------------------------|

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PERFORMANCE

[perf2] Annual employment growth (%)

Description

Annualized growth of permanent full-time workers expressed as a percentage. Annual employment growth is the change in full-time employment reported in the current fiscal year from a previous period. For most countries the difference between the two fiscal year periods is two years. However, for some countries the interval is three years. Hence, an annualized measure is used. The formula is

$$\left(\frac{1}{t}\right) * \frac{l1 - l2}{(l1 + l2)/2}$$

where *t* is the number of years between the current and previous periods.

Survey Variable Used to Construct Indicator

This indicator is created from the variables L.1 and L.2.

| | |
|------------|---|
| L.1 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals worked in this establishment? Please include all employees and managers (Permanent, full-time employees are defined as all paid employees that are contracted for a term of one or more fiscal years and/or have a guaranteed renewal of their employment contract and that work a full shift) (INTERVIEWER: INCLUDE INTERVIEWEE IF APPLICABLE). |
|------------|---|

| | Number |
|--|-----------|
| Permanent, full-time workers end of last fiscal year | 11 |
| DON'T KNOW (SPONTANEOUS) | -9 |

| | |
|------------|--|
| L.2 | Three fiscal years ago, at the end of fiscal year [insert three complete fiscal years ago] , how many permanent, full-time individuals work in this establishment? Please include all employees and managers (INTERVIEWER: INCLUDE INTERVIEWEE IF APPLICABLE). |
|------------|--|

| | Number |
|---|-----------|
| Permanent, full-time workers three fiscal years ago | 12 |
| IF ESTABLISHMENT WAS NOT IN BUSINESS THREE YEARS AGO | -7 |
| DON'T KNOW (SPONTANEOUS) | -9 |

Indicator Comparability

Indicators created from surveys following the ES Global sampling methodology are comparable across countries and survey years. Indicators created from surveys that did not follow the global sampling methodology are not comparable to other surveys. Please refer to the [datadetails.xls](#) file for a list of Global and Non-Global surveys.

Indicator Updates

| | |
|-----------------|------------------------|
| January 3, 2012 | Added to ES Indicators |
|-----------------|------------------------|

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PERFORMANCE

[perf3] Annual labor productivity growth (%)

Description

Annualized growth in labor productivity where labor productivity is real sales (using GDP deflators) divided by full-time permanent workers. Annual labor productivity growth is the change in labor productivity reported in the current fiscal year from a previous period. For most countries the difference between the two fiscal year periods is two years. However, for some countries the interval is three years. Hence, an annualized measure is used. All sales data are also converted to 2009 USD. The formula is

$$\left(\frac{1}{t}\right) * \frac{(d2/l1) - (n3/l2)}{\{(d2/l1) + (n3/l2)\}/2}$$

where t is the number of years between the current and previous periods.

Survey Variable Used to Construct Indicator

This indicator is created from the variables D.2, N.3, L.1, and L.2.

| | |
|------------|--|
| D.2 | In fiscal year [insert last complete fiscal year] , what were this establishment's total annual sales for ALL products and services? |
|------------|--|

| | LCUs |
|---|------------|
| Last complete fiscal year's total sales | d2 |
| DON'T KNOW (SPONTANEOUS) | -9 |
| PLEASE ALSO WRITE OUT THE NUMBER (i.e. 50,000 as Fifty Thousand) | d2x |

| | |
|------------|---|
| N.3 | In fiscal year [insert three complete fiscal years ago] , three fiscal years ago, what were total annual sales for this establishment? |
|------------|---|

| | LCUs |
|---|-----------|
| Total annual sales three years ago | n3 |
| IF ESTABLISHMENT WAS NOT IN BUSINESS THREE YEARS AGO | -7 |
| DON'T KNOW (SPONTANEOUS) | -9 |

| | |
|------------|--|
| L.1 | At the end of fiscal year [insert last complete fiscal year] , how many permanent, full-time individuals worked in this establishment? Please include all employees and managers (Permanent, full-time employees are defined as all paid employees that are contracted for a term of one or more fiscal years and/or have a guaranteed renewal of their employment contract and that work a full shift) (INTERVIEWER: INCLUDE INTERVIEWEE IF APPLICABLE). |
|------------|--|

| | Number |
|--|-----------|
| Permanent, full-time workers end of last fiscal year | l1 |
| DON'T KNOW (SPONTANEOUS) | -9 |

| | |
|------------|---|
| L.2 | Three fiscal years ago, at the end of fiscal year [insert three complete fiscal years ago] , how many permanent, full-time individuals work in this establishment? Please include all employees and managers (INTERVIEWER: INCLUDE INTERVIEWEE IF APPLICABLE) . |
|------------|---|

| | Number |
|---|---------------|
| Permanent, full-time workers three fiscal years ago | 12 |
| IF ESTABLISHMENT WAS NOT IN BUSINESS THREE YEARS AGO | -7 |
| DON'T KNOW (SPONTANEOUS) | -9 |

Indicator Comparability

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Indicator Updates

| | |
|-----------------|------------------------|
| January 3, 2012 | Added to ES Indicators |
| | |

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DESCRIPTIONS OF INDICATOR UPDATES

Outlier Program Change 1 (Summer 2009)

Background: Data collected by the Enterprise Surveys Unit is cleaned as it is collected and checked against a number of quality controls. However, not all data presented through the Enterprise Surveys website is collected by the Enterprise Surveys Unit. For a series of variables, outlier values are identified and removed before the variable is used to construct indicators. A conservative approach is used in this analysis and researchers may wish to use their own techniques to identify outliers by accessing the original raw-data files and performing their own analysis. Variables collected with a response scale from 0% to 100% (e.g. Senior management's time spent on dealing with regulations) are subjected to trimming at plus and minus three standard deviations from the mean. Variables collected with unbounded responses (e.g. Total annual sales figures or Days to obtain an import license) are first log-transformed before being trimmed at plus and minus three standard deviations from the mean.

Change: For variables affected by this change, outlier analysis is performed on the log transformation of the variable. In previous versions of outlier programs, 0.0001 was added to zero values. After the change, 1 is added to all values before performing outlier analysis on the log value. This change was done to preserve zero values when running outlier analysis on logs. Performing the outlier analysis by survey, log values greater (less) than three times the standard deviation from the mean are considered outliers and replaced with a missing value.

Outlier Program Change 2 (November 18, 2010)

Outlier analysis was previously run at the country level. With the addition of new surveys and multiple surveys in the same country, outlier analysis is now run at the survey level.

Indicator Minus Value Change (December 7, 2010)

For the construction of some corruption indicators, negative values (-8 and -9) are changed to extended missing (.a or .b) and are no longer included in the outlier analysis.

Changes to ECA 2002 & 2005 Surveys (May 2, 2011)

The Enterprise Surveys team has made a change to indicators computed for the 2002 and 2005 rounds of surveys conducted in Europe and Central Asia (ECA). This change reflects the exclusion of observations in some sectors in an effort to improve comparability of these data with the more recent rounds of survey collection.

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