Information production to support coping the COVID-19 in Brazil

Claudio Stenner

*Director of Geosciences*
*Brazilian Institute of Geography and Statistics*

EGES – Statistical Division (nov/2020)
COVID-19 pandemic and environment statistics

FRAMEWORK FOR THE DEVELOPMENT OF ENVIRONMENT STATISTICS (FDES 2013)

Environmental Health

United Nations

Instituto Brasileiro de Geografia e Estatística  IBGE
Investing in **data** is key to rebuilding
https://covid19.ibge.gov.br/
## Table 3.5.2.1
Statistics and related information for Topic 5.2.1

<table>
<thead>
<tr>
<th>Component 5: Human Settlements and Environmental Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcomponent 5.2: Environmental Health</td>
</tr>
<tr>
<td>Topic 5.2.1: Airborne diseases and conditions</td>
</tr>
</tbody>
</table>

### Statistics and related information

(Bold text—Core Set/Tier 1; regular text—Tier 2; italicized text—Tier 3)

<table>
<thead>
<tr>
<th>Category of measurement</th>
<th>Potential aggregations and scales</th>
<th>Methodological guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Airborne diseases and conditions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Incidence</td>
<td>Number</td>
<td>By disease or condition</td>
</tr>
<tr>
<td>2. Prevalence</td>
<td>Number</td>
<td>National</td>
</tr>
<tr>
<td>3. Mortality</td>
<td>Number</td>
<td>Subnational</td>
</tr>
<tr>
<td>4. Loss of work days</td>
<td>Number</td>
<td>Urban</td>
</tr>
<tr>
<td>5. Estimates of economic cost in monetary terms</td>
<td>Currency</td>
<td>Rural</td>
</tr>
<tr>
<td></td>
<td></td>
<td>By gender</td>
</tr>
<tr>
<td></td>
<td></td>
<td>By age group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>By time period</td>
</tr>
</tbody>
</table>
Enterprise Pulse Survey

It aims to **estimate** the **impacts** of the COVID-19 pandemic on the **Brazilian economy**, with non-financial companies.

### Enterprise Pulse Survey:
Impact of Covid-19 on the Enterprises

<table>
<thead>
<tr>
<th>Survey sample</th>
<th>Topics covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nearly two thousand enterprises</td>
<td>Operational status (closed or in operation)</td>
</tr>
<tr>
<td>Enterprise size</td>
<td>Overall impact on business</td>
</tr>
<tr>
<td>• Up to 49 employed persons</td>
<td>• Behavior of sales</td>
</tr>
<tr>
<td>• Between 50 and 499 employed persons</td>
<td>• Capacity of manufacture and attendance</td>
</tr>
<tr>
<td>• With 500 or more employed persons</td>
<td>• Access to suppliers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Economic activity</th>
<th>Data collection method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry</td>
<td>CATI – Computer assisted telephone interviewing</td>
</tr>
<tr>
<td>Trade</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
</tr>
<tr>
<td>Services</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geographical coverage</th>
<th>Interview duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil and Major Regions</td>
<td>8 to 10 minutes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Experimental Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fortnightly</td>
<td></td>
</tr>
</tbody>
</table>

Enterprise Pulse Survey

Perception of the impact suffered by enterprises due to covid-19 (%) | Brazil - 1st half of July 2020

Total of enterprises

- Negative
- Small or no effect
- Positive

By activities

- Services: 55.5%
- Trade: 48.3%
- Industry: 40.1%
- Construction: 37.8%

Source: Enterprise Pulse Survey - Covid-19 affects on enterprises

Companies that ended their activities due to Covid-19 (%) | Brazil - 1st fifteen days of June 2020

A total 39.4% of the companies that ended their activities closed due to the Covid-19 pandemic. That was the reason for closure in 35.1% of the companies closed in the Industry sector, 37% of those in the Construction sector, 40.8% of the companies in the Trade sector and of 39.4% of the companies in the Services sector.

By employed persons

- Up to 49 employed persons
- 50 to 499 employed persons
- More than 500 employed persons

By economic activities

- Industry
- Construction
- Trade
- Services

Closed due to the pandemic
Closed due to other reasons
Not informed

Source:为企业脉动调查 - COVID-19对企业的影响

Estatísticas Experimentais IBGE
Enterprise Pulse Survey

Perceived effects of the Covid-19 pandemic on sales of products or services (%) | Brazil - 1st half of August 2020

Total enterprises:
- Negative effects: 36.1%
- Small or no effects: 33.6%
- Positive effects: 30.3%

By activity:
- Industry
- Construction
- Trade
- Retail Trade
- Wholesale Trade
- Trade of vehicles, pieces and motorcycles
- Services
- Services rendered to families
- Information and communication services
- Professional, administrative and complementary services
- Transportation, support activities for transportation and mailing
- Other services

Effects of Covid 19 perceived by companies
Brazil - 2nd half of July

Total of enterprises:
- Negative effect: 38
- Small or no effect: 36
- Positive effect: 28

By activity:
- Services
- Trade
- Industry
- Construction

Source: Enterprise Pulse Survey - Impact of Covid 19 on Enterprises - Experimental Statistics
“PNAD” COVID19 [National Household Sample Survey]

It aims to estimate the number of people with symptoms associated with gripe syndrome and monitor the impacts of the COVID-19 pandemic on the Brazilian labor market.

“PNAD” COVID19
[National Household Sample Survey]

Persons with flu symptoms who sought health care (%)
By establishment type

Labor Market situation in the Covid-19 pandemic
In the last week of May

Source: PNAD COVID19
“PNAD” COVID19 [National Household Sample Survey]

Persons who were tested for COVID-19
By Federation Unit

Households receiving emergency aid
June 2020

By percentage

43% of the housing units received emergency aid

By ranges of per capita earnings

29.4 million households were benefited

Source: PNAD COVID19 - Sep

Experimental Statistics

Fonte: PNAD COVID19 Estatísticas Experimentais
Maps and databases at various scales

Households in Slum Areas

- States
- Health region
- Local (intraurban)

Percentage of households in slums
- > 15%
- > 10% and <= 15%
- > 5% and <= 10%
- > 2% and <= 5%
- <= 2%
### Vulnerable population

#### Population over 60 years old (2010)
- **14.89%** 940,851 inhabitants
  - In the state federation: 13.01%

#### Households with 3 or more occupants (2010)
- **10.62%** 671,247 units
  - In the state federation: 11.52%

#### Households in subnormal agglomerations (estimate 2019)
- **19.28%** 453,571 units
  - In the state federation: 12.63%

#### Indigenous Localities (estimate 2019)
- **3 localities**
  - In the state federation: 3rd position

#### Table: Population by Age Group (2010)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Quantity</th>
<th>Reference Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population (estimate 2019)</td>
<td>6,718,903 hab.</td>
<td>38.92% of the population in the state federation</td>
<td>IBGE, 2019</td>
</tr>
<tr>
<td>Population (2010)</td>
<td>6,320,446 hab.</td>
<td>39.53% of the population in the state federation</td>
<td>Censo Demográfico 2010</td>
</tr>
<tr>
<td>Indigenous People declared (2010)</td>
<td>6,764 hab.</td>
<td>0.04% of the population in the state federation</td>
<td>Censo Demográfico 2010</td>
</tr>
<tr>
<td>Localities quilombolas</td>
<td>11 localities</td>
<td>9.48% of the quilombolas in the state federation</td>
<td>IBGE, 2019</td>
</tr>
</tbody>
</table>

#### Population by Age Group (2010)

- **> 59 years old:** 940,851 people
  - **14.89%**
- **30 to 59 years old:** 2,629,277 people
  - **41.0%**
- **0 to 29 years old:** 2,730,318 people
  - **44.11%**
Responsiveness of the health care system
**Pandemic monitoring**

**Casos acumulados**

115.213 caso(s)

Na unidade da federação: 306.672 caso(s)

**Casos na última semana - encerrada em 24/10/2020**

1.605 caso(s)

Na unidade da federação: 9.252 caso(s)

**Casos novos no dia 28/10/2020**

0 caso(s)

Na unidade da federação: 1.766 caso(s)

---

<table>
<thead>
<tr>
<th>Indicador</th>
<th>Quantidade</th>
<th>Valor de referência</th>
<th>Fonte</th>
<th>Visualizar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casos na última semana - encerrada em 24/10/2020</td>
<td>23,89/100 mil hab.</td>
<td>53,59/100 mil hab. na unidade da federação</td>
<td>FioCruz/Brasil.IO, 2020</td>
<td></td>
</tr>
<tr>
<td>População estimada em 2019</td>
<td>6.718.903 hab.</td>
<td>38,92% da pop. estadual</td>
<td>IBGE, 2019</td>
<td></td>
</tr>
</tbody>
</table>
Thank you for your attention

claudio.stenner@ibge.gov.br