Papua New Guinea - High Frequency Phone Survey, 2020

World Bank

Report generated on: August 6, 2021

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Overview

Identification

ID NUMBER
PNG_2020_HFPS_v01_EN_M_v01_A_OCS

Overview

ABSTRACT
The novel coronavirus COVID-19 pandemic is an unprecedented crisis globally. Under the slowdown in economic activity due to the protective measures enacted by governments around the world, global GDP is expected to contract by 5.2 percent, with per capita incomes in most emerging and developing countries forecast to shrink; potentially pushing many millions into poverty and deepening deprivation. In Papua New Guinea, the socio-economic impacts of these measures are compered by geographic dispersion and isolation, weak institutions, and unequal access to services for vulnerable populations. To monitor and assess the socio-economic impacts of COVID-19 in Papua New Guinea, five rounds of High Frequency Phone Survey (HFPS) have been planned and will be conducted quarterly.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
Households

KEYWORDS
COVID-19, High Frequency Phone Survey, Education, Economic activity, Business, Income, Farming, Remittances, Food, Health, Public services, Well-being

Coverage

GEOGRAPHIC COVERAGE
National coverage

UNIVERSE
Over 18 years of age from the Digicel subscriber logs.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
World Bank	World Bank Group

OTHER PRODUCER(S)

Name	Affiliation	Role
Development Data Group	World Bank Group	Technical assistance
Poverty and Equity Global Practice	World Bank Group	Technical assistance
Research Triangle Institute		Technical assistance
International Food Policy Research Institute		Technical assistance

United Nations Regional Coordination Office	United Nations	Technical assistance
Statistics for Development Division	Pacific Community	Technical assistance
Digicel Papua New Guinea		Advice on implementation

FUNDING

Name	Abbreviation	Role
World Bank Group	WBG	Funded the survey and analysis

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Oragnization	Adoption of metadata for FAM
Statistics for Development Division	SDD	Pacific Community	Documentation of the study
World Bank Group	WBG		Documentation of the study

DDI DOCUMENT VERSION
PNG_2020_HFPS-W1_v01_EN_M_v01_A_OCS_v01

DDI DOCUMENT ID
DDI_PNG_2020_HFPS-W1_v01_EN_M_v01_A_OCS_FAO

Sampling

Sampling Procedure

SAMPLING PROCEDURE
The implementation method was random digit dialling which was administered through a computer system randomly dialling numbers from the Digicel subscriber logs and connecting to a live operator if a live respondent answered. To raise awareness and response rates, a text blast was sent to Digicel subscribers prior to the call notifying that they could potentially be contacted to participate in a survey being conducted by the World Bank.

The target sample size was 2,500 respondents. This figure was determined based on budget constraints and the need to be able to disaggregate the results at the regional level. Since limited auxiliary information was available for sample design, the high frequency phone survey targeted households in the same proportion as the 2016-2018 Demographic and Health Survey (DHS).

Overall, the achieved sample size was 3,115 because of the limited ability to target by geography with a random digit dial design.

For more information on sampling, please refer to the report provided in the External Resources.

Weighting

As the survey was administered by mobile phones, the respondents were a representative sample of mobile phone holders and not the overall population. Previous literature has shown that mobile phone holders are more likely to be male, urban, wealthier and more highly educated. To make inferences at the level of the population instead of mobile phone holders, it was necessary to reweight the survey data.

The sampling weights were developed for round one of the Papua New Guinea (PNG) High Frequency Phone Survey (HFPS) in a series of steps. The weights began with weights provided from the survey firm that represented the total number of subscribers in a given province divided by the number of completed calls in that province. For re-weighting, the most recent survey was used (2016-2018 Demographic and Health Survey (DHS)). The weights were then calibrated to the DHS distribution. A second set of weights to do individual analysis was incorporated.

For more information on weighting, please refer to the "Weighting" section (p.40) of the report provided in the External Resources.

The "weight" variable in the Household dataset is called "weight" whereas that in the Person dataset is called "ind_weight".

Questionnaires

Overview

The questionnaire was developped both in English and in Pidgin. The survey instrument for the first round consisted of the following modules:

-Basic information,
-Knowledge of COVID-19,
-Employment and Income loss,
-Food access and Food security,
-Coping strategies,
-Access to health care,
-Public trust and security,
-and Assets and wellbeing.

The questionnaire can be found in the External Resources of this documentation.

Data Collection

Data Collection Dates

Start	End	Cycle
2020-06-18	2020-07-03	Data collection

Data Collection Mode

Computer Assisted Telephone Interview [cati]

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Data Processing

Data Editing

CLEANING OPERATIONS
At the end of data collection, the raw dataset was cleaned by the World Bank team. This included formatting, and correcting results based on monitoring issues, enumerator feedback and survey changes.

Data was edited using the software Stata.

Data Appraisal

Other forms of Data Appraisal

Data was collected and managed using the Survey Solutions software package.