

Namibia - NAMIBIA POPULATION AND HOUSING CENSUS PUMS 2023

Namibia Statistics Agency

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Identification

SURVEY ID NUMBER

NAM_NSA_PHC_2023_V01_PUMS

TITLE

NAMIBIA POPULATION AND HOUSING CENSUS PUMS 2023

SUBTITLE

2023 Population and Housing Census PUMS

ABBREVIATION OR ACRONYM

NPHC_2023

COUNTRY

Name	Country code
Namibia	NAM

STUDY TYPE

Population and Housing Census [hh/popcen]

SERIES INFORMATION

The 2023 Namibia Population and Housing Census was the forth census conducted after independence, following the previous ones in 1991, 2001 and 2011.

ABSTRACT

The Public Use Microdata Sample (PUMS) from the Namibia 2023 Population and Housing Census provides anonymized individual- and household-level data, enabling users to conduct customized analyses on a wide range of demographic and socio-economic characteristics. The dataset is drawn from a scientifically selected sample of census records, designed to ensure national representativeness while preserving respondent confidentiality.

The PUMS includes information on key variables such as age, sex, marital status, education, economic activity, housing conditions, and household composition, among others. It enables users to explore patterns, relationships, and trends that are not readily available in aggregated census tables. To protect privacy, direct identifiers have been removed and certain data elements modified in accordance with statistical disclosure control standards.

The dataset is intended for use by researchers, policy analysts, students, and other stakeholders interested in evidence-based planning, academic inquiry, and policy development. Users are advised to consult the accompanying metadata and documentation for proper interpretation and responsible use of the data.

KIND OF DATA

Census/enumeration data [cen]

UNIT OF ANALYSIS

Households and Individual

Version

VERSION DESCRIPTION

Version 1.0: Edited, anonymous dataset for public distribution (PUMS, 20% sample)

VERSION DATE

2025-07-23

Scope

NOTES

Identification: Consists of region; constituency; urban and rural

Persons: For all persons in the household/ institution demographic characteristics, education, labour force

Household and housing characteristics: Household size; composition; assets; tenure status, material used for the wall, roof and floor; main source of energy; main source of water for cooking and drinking; main toilet facility; main source of income; and own account agricultural activity.

TOPICS

Topic
Population
Demographics
Education
Information, Communication and Technology
Labour Force
Welfare
Housing
Material for construction
water
Sanitation

KEYWORDS

Keyword
Research datasets
Namibia 2023 Census
Public Use Microdata Sample
PUMS Namibia
Census microdata
Namibia Population and Housing Census
Anonymized microdata
Household Census data
Individual-level data
Demographic statistics
Socio-economic indicators
Education data
Employment data
Housing conditions
Census dataset
National census sample
Namibia Statistics Agency
Open microdata

Coverage

GEOGRAPHIC COVERAGE

National Coverage

UNIVERSE

The sampling universe is defined as all households (private and institutions) from 2023 Census dataset.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Namibia Statistics Agency	Government of the Republic of Namibia

PRODUCERS

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Government of the Republic of Namibia	GRN	Funding
United Nation Population Fund	UNFPA	Technical Assistance
Office of National Statistics of the UK	ONS	Technical Assistance
United Nations Economic Commission of Africa	UNECA	Technical Assistance

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Role
Line Ministries and Private Institutions	provided assistance
Field Staff	Fieldwork and data collection
General Public	Participation in the Census

Sampling

SAMPLING PROCEDURE

Sample Design

The stratified random sample was applied on the constituency and urban/rural variables of households list from Namibia 2023 Population and Housing Census for the Public Use Microdata Sample (PUMS) file. The sampling universe is defined as all households (private and institutions) from 2023 Census dataset. Since urban and rural are very important factor in the Namibia situation, it was then decided to take the stratum at the constituency and urban/rural levels. Some constituencies have very lower households in the urban or rural, the office therefore decided for a threshold (low boundary) for sampling within stratum. Based on data analysis, the threshold for stratum of PUMS file is 250 for the 20% sample. Thus, constituency and urban/rural areas with less than 250 households in total were included in the PUMS file. Otherwise, a simple random sampling (SRS) at a 20% sampling rate was applied for each stratum. The sampled households include 151,966 housing units and 606,022 persons for the 20% sample.

Sample Selection

The PUMS sample is selected from households. The PUMS sample of persons in households is selected by keeping all persons in PUMS households. Sample selection process is performed using Census and Survey Processing System.

The smallest geographic unit for PUMS was generated (region + constituency + urban-rural) and a count of households for

each one of these geographies was established. A CPro batch edit was created where two lists of both the geo-unit ids and respective case counts were created (geo-unit id and respective case count maintained the same index within their respective list).

The batch edit was written such that, for every new geo-unit, all cases were kept if the case count (from the list) was below the household count threshold and otherwise sampled depending on the size of the sample i.e. every 5th household for 20% sample.

WEIGHTING

The 20% sample had a weight which was then calibrated to ensure the estimates conform to the total population for the region and sex. The weight variable is appended to the datasets.

The sample weights were calibrated to align the sample distributions with the full census population totals by region and sex. As a result, estimates produced for this calibrated weight closely match the corresponding census counts.

For all other variables, however, the estimates are subject to sampling variability because they were not included in the calibration process. Consequently, sample-based estimates may differ from the full census counts, and such differences should be interpreted as an expected outcome of the sampling design rather than as errors in the data.

Users are therefore advised that while the sample provides reliable estimates of the population, exact agreement with full census figures should only be expected for the variables used in the calibration process (region and sex).

Data collection

DATES OF DATA COLLECTION

Start	End
2023-09-24	2023-10-06

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

SUPERVISION

Regional Census Coordinators: Overseeing the 2023 census operations at regional level

Deputy Regional Census Coordinators: Overseeing the 2023 census operations at constituency level

Team supervisors: Overseeing the 2023 census operations at Enumeration Areas and supervised four to five enumerators.

Quality assurance mechanisms

Comprehensive quality assurance guidelines were developed and shared with all field personnel. Four layers of field supervision, plus a monitoring team, were put in place to ensure adequate facilitation, real-time response to emerging issues, and feedback to Census Office during data collection. Additionally, Census Monitoring dashboard was in place during enumeration to facilitate real time monitoring activities.

In addition, since it was CAPI, many controls were built in the application to ensure internal consistency of the data.

DATA COLLECTORS

Name	Abbreviation
Namibia Statistics Agency	NSA

Questionnaires

QUESTIONNAIRES

The following questionnaire instruments were used for the Namibia 2023 Population and Housing Census:

Form A : For conventional households

Form B : For institutional Households

Form C: for special population groups such as Polie holding cells, Homeless, travellers, hospital in-patients, hotels and guesthouses, off-shore populations

Data Processing

DATA EDITING

Data entry application was built with many consistency checks, skipping patterns and other validations such as maximum and minimum acceptance range per variable. Supervisors were given minimum variables to check on a day-to-day basis, especially for other - specify (notes) variables. As a result, data consistency checks, coding and validation was done at field level. This minimized the time spent on post data cleaning, validation and editing process. The secondary data cleaning procedures was done using step-by-step instructions developed in CSPRO to verify the structural stability of the published 2023 Census data sets, identify invalid entries and determine the data points that should be subjected to editing or imputation. The above tasks were scripted in CSPRO batch program were created to automate their accomplishments

Access policy

CONTACTS

Name	Email	URL
Namibia Statistics Agency	info@nsa.org.na	Link

CONFIDENTIALITY

Confidentiality of respondents is ensured by Statistics Act No.9, 2011, section 44(2) Before being granted access to the dataset, all users have to formally agree: - Not to use any technique in an attempt to identify any person, establishment, or sampling unit on public use data files. - To hold in strictest confidence the identification of any establishment or individual that may be inadvertently revealed in any documents or discussion, or analysis. Such inadvertent identification revealed in her/his analysis will be immediately brought to the attention of the Namibia Statistics Agency.

ACCESS CONDITIONS

Public use files, accessible to all

The dataset has been anonymized and is available as a Public Use Dataset. It is accessible to all for statistical and research purposes only, under the following terms and conditions:

1. The data and other materials will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement of the Namibia Statistics Agency.
2. The data will be used for statistical and scientific research purposes only. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations.
3. No attempt will be made to re-identify respondents, and no use will be made of the identity of any person or establishment discovered inadvertently. Any such discovery would immediately be reported to the Namibia Statistics Agency.
4. No attempt will be made to produce links among datasets provided by the Namibia Statistics Agency, or among data from the Namibia Statistics Agency and other datasets that could identify individuals or organizations.
5. Any books, articles, conference papers, theses, dissertations, reports, or other publications that employ data obtained from the Namibia Statistics Agency will cite the source of data in accordance with the Citation Requirement provided with each dataset.
6. An electronic copy of all reports and publications based on the requested data will be sent to the Namibia Statistics Agency.

The original collector of the data, the Namibia Statistics Agency, and the relevant funding agencies bear no responsibility for use of the data or for interpretations or inferences based upon such uses

CITATION REQUIREMENTS

Namibia Statistics Agency. Namibia 2023 Population and Housing Census [PUMS dataset]. Version 1.0, Windhoek: Namibia Statistics Agency [producer and distributor], July 2025

ACCESS AUTHORITY

Name	Affiliation	Email	URL
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Namibia Statistics Agency	Government of the republic of Namibia	info@nsa.org.na	Link
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DISCLAIMER

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Metadata production

DDI DOCUMENT ID

DDI_NAM_NSA_2023 CENSUS_PUMS

PRODUCERS

Name	Abbreviation	Role
Namibia Statistics Agency	NSA	ocumentation of the Study

DATE OF METADATA PRODUCTION

2025-07-17

Data Dictionary

Data file	Cases	Variables
NPHC2023_PUMS_20PCT_stataV11 The file contain both households and individual variables.	606022	118