

# South Africa - SAPRIN Individual Surveillance Episodes Year Age Household Socioeconomic Status 2024 Datasets

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## Identification

### SURVEY ID NUMBER

SAPRIN.SISEYAHSSD2024V1

### TITLE

SAPRIN Individual Surveillance Episodes Year Age Household Socioeconomic Status 2024 Datasets

### COUNTRY

Name	Country code
South Africa	RSA

### STUDY TYPE

Demographic Surveillance

### SERIES INFORMATION

This dataset contains demographic surveillance data covering the period from 1 Jan 1993 to 31 December 2023.

### ABSTRACT

The 'South African Population Research Infrastructure Network' (SAPRIN) is a national research infrastructure funded through the Department of Science, Technology and Innovation and hosted by the South African Medical Research Council. One of SAPRIN's initial goals has been to harmonise and share the longitudinal data from the three current Health and Demographic Surveillance System \*(HDSS)\* Nodes. These long-standing nodes are the MRC/Wits University Agincourt HDSS in Bushbuckridge District, Mpumalanga, established in 1993, with a current population of 104 679 people; the University of Limpopo DIMAMO HDSS in the Capricorn District of Limpopo, established in 1996, with a current population of 101 376; and the Africa Health Research Institute (AHRI) HDSS in uMkhanyakude District, KwaZulu-Natal, established in 2000, with a current population of 156 751.

For an individual to be eligible for inclusion in the surveillance, the individual must be a member of a household resident within the geographic boundaries of a SAPRIN node. For a household to be resident, it must have at least one household member who is resident within the surveillance area. Households and household membership are self-defined by the household informant interviewed by the fieldworker at their place of residence (or during a telephonic interview with the household informant). Household members so identified could be resident, that is sleep the majority of nights at this household's place of residence, or could be resident elsewhere (usually outside the surveillance area, but potentially within the surveillance area, in which case they will be a resident household member of the household resident at that place - In this dataset, individuals are members of a single household at a time, and in this example, the non-resident member of the household who is resident elsewhere in the surveillance area, will be reflected in the dataset as a resident member of the household this individual is co-resident with and not also as a non-resident member of this household). The resident status of household members can change: they can move out of the surveillance area to be resident elsewhere, but still be considered household members (so-called 'temporary migration'), such cases are reflected in the data as episodes of external residence; or temporary migrants can return to take up residence again with the household, initiating a new episode of residence internal to the surveillance area.

In addition to these periods of internal and external residence punctuated by in- and outmigration, surveillance episodes can be started by the birth of an individual, if the child is born to a resident mother, their birth starts a period of internal residency for the child; if the child is born to a mother who is a temporary migrant (externally resident) and the child is considered to be a member of the household, a period of external residency ensues for the child. Residency episodes (whether internal or external) are of course terminated by the death of the individual, if that happens whilst the individual is under surveillance.

All SAPRIN nodes conducted a baseline household census at their beginning and all individuals enrolled at this point start their surveillance episode with enumeration. However, nodes may extend their area of surveillance at certain points after the initial household census, by doing another baseline census in these new areas, and all individuals enrolled then, also start their surveillance episodes with enumeration. For integrity in the longitudinal surveillance of individuals, the identity of newly encountered individuals is checked against the database and merged with prior records if the individual is already in the database. In the case of newly incorporated areas into the surveillance area, it is entirely possible to find individuals that have previously out-migrated from the surveillance area to reside in this new area, in such cases an individual will have more than one surveillance episode that starts with enumeration, their enumeration in the original baseline census as well as their enumeration in the newly extended surveillance area.

This dataset represents a snapshot of the continually evolving data in the underlying longitudinal databases maintained by the SAPRIN nodes. In these databases the rightmost extent of the individual's surveillance episode is indicated by the data collection date of the last time the individual's membership of a household under surveillance has been confirmed. Each dataset has a right censor date (31 December 2023 for the current version of the dataset) and individual surveillance episodes are terminated at that point if the individual is still under surveillance beyond the cut-off date.

Each individual surveillance episode is associated with a physical location, for internal residency episodes it is the actual place of residence of the individual, for external residence episodes (periods of temporary migration) it is the place of residence of the individual's household. If an individual change their place of residency from one location within the surveillance area to another location still within the surveillance area, the episode at the original location is terminated with a location exit event, and a new episode starts with a location entry event at the destination location. It is also possible for the household the individual is a member of, to change their place of residency in the surveillance area, whilst the individual is externally resident (is a temporary migrant), in which case the individual's external resident episode will also be split with a location exit-entry pair of events.

At every household visit written consent is obtained from the household respondent for continued participation in the surveillance and such consent can be withdrawn. When this happens all household members' surveillance episodes are terminated with a refusal event. It is possible for households to again provide consent to participate in the surveillance after some time, in such cases surveillance events are restarted with a permission event.

As mentioned previously, surveillance episodes are continually extended by the last data collection event if the individual remains under surveillance. In certain cases, individuals may be lost to follow-up and surveillance episodes where the date of last data collection is more than one year prior to the right censor data are terminated as lost to follow up at that last data collection date. Individuals with data collection dates within a year of the right censor date is considered still to be under surveillance up to this last data collection date.

Each surveillance episode contains the identifier of the household the individual is a member of during that episode. Under relatively rare circumstances it is possible for an individual to change household membership whilst still resident at the same location, or to change membership whilst externally resident, in these cases the surveillance episode will be split with a pair of membership end and membership start events. More commonly membership start and end events coincide with location exit and entry events or in- and out-migration events. Memberships also obviously start at birth or enumeration and end at death, refusal to participate or lost to follow-up.

In about half of the cases, individuals have a single episode from first enumeration, birth or in-migration, to their eventual death, out-migration or currently still under surveillance. In the remaining cases, individuals transition from internal residency to external residency via out-migration, or from one location to another via internal migration with a location exit and entry event, or some other rarer form of transition involving membership change, refusal or lost to follow-up. Usually these series of surveillance episodes are continuous in time, with no gaps between episodes, but gaps can form, e.g. when an individual out-migrates and end membership with the household and so is no longer under surveillance, only to return via in-migration at some future date and take up membership with same or different household.

The SAPRIN Individual Surveillance Episodes Year Age Household Socioeconomic Status 2024 Datasets consists of the Demographic surveillance dataset. This dataset splits the basic surveillance episodes at calendar year end, age in years (birth-day) and Household status of an individual changes.

#### KIND OF DATA

Event history data

#### UNIT OF ANALYSIS

Exposure Episodes

## Version

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#### VERSION DESCRIPTION

v1: Dataset for public distribution.

#### VERSION DATE

2025-04-14

#### VERSION NOTES

v1: Dataset for public distribution.

## Scope

### NOTES

Each record in the dataset represents a period of observation for an individual during which all the recorded characteristics of the individual stay constant. For example, on the birthday of the individual a new episode will start, because the age of the individual has changed. An out-migration will result in a new episode, because the location or residential status has changed. Any change in one of the status values, such as education or household socioeconomic status, will likewise result in a new episode on the date of the change.

### TOPICS

Topic
Fertility, Mortality, Migration, Household Socioeconomic Status

### KEYWORDS

Keyword
Fertility, Mortality, Migration, Household Socioeconomic Status

## Coverage

### GEOGRAPHIC COVERAGE

The South African Population Research Infrastructure Network (SAPRIN) currently represents a network of three Health and Demographic Surveillance System \*(HDSS)\* nodes located in rural South Africa, namely: 1) MRC/Wits University Agincourt HDSS in Bushbuckridge District, Mpumalanga, which has collected data since 1993. The nodal website is: <http://www.agincourt.co.za>; 2) the University of Limpopo DIMAMO HDSS in the Capricorn District of Limpopo, which has collected data since 1996. The nodal website is: N/A; 3) and the Africa Health Research Institute (AHRI) HDSS in uMkhanyakude District, KwaZulu-Natal, which has collected data since 2000. The nodal website is: <http://www.ahri.org>.

The Agincourt HDSS covers a surveillance area of approximately 420 square kilometres and is located in the Bushbuckridge District, Mpumalanga in the rural northeast of South Africa close to the Mozambique border. At baseline in 1992, 57 600 people were recorded in 8900 households in 20 villages; by 2006, the population had increased to about 70 000 people in 11 700 households. As of 1st July 2023, there were 110 896 people under surveillance of whom 24% were not resident within the surveillance area, with a total of about 2.8 m person years of observation. 29% of the population is under 15 years old. The population is almost exclusively Xitsonga speaking. The Agincourt HDSS has population density of over 200 persons per square kilometre. The Agincourt HDSS extends between latitudes 24° 50' and 24° 56' S and longitudes 31°08' and 31° 25' E. The altitude is about 400-600m above sea level.

DIMAMO is located in the Capricorn district, Limpopo Province approximately 40 kilometres from Polokwane, the capital city of Limpopo Province and 15-50 kilometres from the University of Limpopo. The site covers an area of approximately 400 square kilometres. The initial total population observed was about 8 000 but the field site was expanded in 2010. As of 1st July 2023, there were 99 087 people under surveillance, of whom 24% were not resident within the surveillance area, with about 961,000 person years of observation. 29% of the population is under 15 years old. The population is predominantly Sepedi speaking. Most households have electricity. Some households have piped water either inside the house or in their yards, but most fetch water from taps situated at strategic points in the villages. Most households have a pit latrine in their yards. The area lies between latitudes and 23°65' and 23°90' S and longitudes 29°65' and 29°85' E. The HDSS is located on a high plateau area (approximately 1250 m above sea level) where communities typically consist of households clustered in villages, with access to local land for small-scale food production.

Africa Health Research Institute (AHRI) is situated in the south-east portion of the Umkhanyakude district of KwaZulu-Natal province near the town of Mtubatuba. It is bounded on the west by the Umfolozi-Hluhluwe nature reserve, on the south by the Umfolozi river, on the east by the N2 highway (except for portions where the Kwamsane township straddles the highway) and in the north by the Inyalazi river for portions of the boundary. The surveillance area is approximately 850 square kilometres. As of 1st July 2023, there were 154 815 people under surveillance of whom 25% were not resident within the surveillance area, with about 2.6 m person years of observation. 29 % of the population is under 15 years old. The population is almost exclusively isiZulu speaking. The surveillance area is typical of many rural areas of South Africa in that

while predominantly rural, it contains an urban township and informal peri-urban settlements. The area is characterized by large variations in population densities (20-3000 people per square kilometre). The area lies between latitudes -28°24' and 28°20'N and longitudes 32°10' and 31°58'E

#### UNIVERSE

Households resident in dwellings within the study area will be eligible for inclusion in the household component of SAPRIN. All individuals identified by the household proxy informant as a member of the household will be enumerated. A resident household member is an individual that intends to sleep the majority of time at the dwelling occupied by the household over a four-month period. Households will include resident and non-resident members. An individual is a non-resident member if they have close ties to the household, but do not physically reside with the household most of the time. They can also be called temporary migrants and they are enumerated within the household list. Because household membership is not tied to physical residency, an individual may be a member of more than one household.

## Producers and sponsors

#### PRIMARY INVESTIGATORS

Name	Affiliation
Dr Kobus Herbst	SAPRIN
Prof Mark Collinson	SAPRIN
Tinofa Mutevedzi	SAPRIN
Dr Molulaqhoob Linda Maoyi	SAPRIN

#### PRODUCERS

Name	Affiliation	Role
Dr Molulaqhoob Linda Maoyi	SAPRIN	Technical Assistance
Dr Kobus Hersbt	SAPRIN	Technical Assistance
Augustine Khumalo	SAPRIN	Technical Assistance

#### FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Department of Science,Technology and Innovation	DSTI	Current Funder

#### OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
Agincourt Data Team	Agincourt	Providing Data
DIMAMO Data Team	DIMAMO	Providing Data
AHRI Data Team	AHRI	Providing Data
Prof Steve Tollman	Agincourt	
Dr Joseph Tlouyamma	DIMAMO	
Prof Collins Iwuji	AHRI	
Centre for High Performance Computing	Centre for High Performance Computing	Providing IT Infrastructure for Data Processing

## Sampling

#### SAMPLING PROCEDURE

This dataset is not based on a sample but contains information from the complete demographic surveillance areas.

## Data collection

### DATES OF DATA COLLECTION

Start	End	Cycle
1993-01-01	2023-12-31	Agincourt
1996-01-01	2023-12-31	DIMAMO
2000-01-01	2023-12-31	AHRI

### TIME PERIODS

Start date	End date	Cycle
1993-01-01	2023-12-31	Agincourt
1996-01-01	2023-12-31	DIMAMO
2000-01-01	2023-12-31	AHRI

### DATA COLLECTION NOTES

In all the HDSS nodes, data are collected from a household proxy respondent, preferably the head of household or any next available senior adult resident household member, after informed consent was obtained by trained fieldworkers. Respondents are informed of the purpose and confidentiality of the interview, their right to refuse participation or withdraw from the study, and that scientists would be given access to anonymised data to analyse and publish information. Informed consent was verbal in all HDSS nodes until 2016. Written informed consent started in 2017 in AHRI, and 2018 in DIMAMO and 2019 in Agincourt. Until 2016 for Agincourt and AHRI, and 2017 for DIMAMO, data collection was field-based 'paper and pen' personal interviews (PAPI), before changing to field-based computer-assisted personal interviews (CAPI). Since 2019, all SAPRIN HDSS nodes collect data in 3 annual rounds over a 45-week data collection schedule; one field-based CAPI round, sandwiched on either side by a Call-Centre-based computer assisted telephonic interview (CATI), to create 3 data points at an interval of approximately 4 months in each calendar year. In the past HDSS nodes had different data collection frequencies. AHRI data collection was 2 PAPI rounds per year from inception to 2011, changing to 3 PAPI rounds per year between 2012 and 2016, before becoming 1 PAPI round and 2 CATI rounds from 2017. Agincourt and DIMAMO have been collecting data once annually in a census-type format, over 4-5-month period until 2018.

## Questionnaires

### QUESTIONNAIRES

The data on this Repository is not the result of a single questionnaire but is a result of harmonised data from three different sites longitudinally collected over more than twenty years using different questionnaires that varied over time and site.

## Data Processing

### DATA EDITING

The first step in the data preparation process is quality assurance. The SAPRIN Management hub team assess the data submitted to ensure it is in the correct format and falls within expected value ranges. Other potential issues checked include: missing data, incorrect data types, unexpected duplicate or orphan records. The SAPRIN Management hub assess this conversion by running both original operational database and the SAPRIN database created from the operational database through the SAPRINQA data quality assessment and indicator process. The data quality checking process is conducted using the SAPRIN QA Julia Code. The Julia Code provides the Extract, Transform, and Load (ETL) capabilities that facilitates the process of capturing, cleansing, and storing data using a uniform and consistent format that is accessible and relevant to end users. The principle of the data quality checks is that if the data conversion conducted by the nodes was complete and accurate, there should be little or no difference in the data quality and demographic indicators between the base and SAPRIN versions of the nodal data. If the data submitted by the nodes meets the criteria for inclusion into the consolidated dataset the data moves to the second step of the data production process. However, if the data fail the inclusion checks, this could then lead to another iteration of data submission and quality control checks until the SAPRIN Management hub is satisfied that they have high quality data. To produce this final standard dataset, the data is processed using Julia Code on the Centre for High Performance Computing cluster.

## Data Appraisal

### ESTIMATES OF SAMPLING ERROR

Not Applicable

## Access policy

### CONTACTS

Name	Affiliation	Email	URL
SAPRIN Data Management	SAPRIN	saprindata@mrc.ac.za	<a href="#">Link</a>

### ACCESS CONDITIONS

This data is made available for access under the following conditions:

- 1)The data and other materials provided by SAPRIN will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement of SAPRIN.
- 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 organisations. The Data User will neither use nor permit others to use the data in any way other than listed in the original application (Analysis Plan) for access to the dataset.
- 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 should immediately be reported to SAPRIN.
- 4)No attempt will be made to produce links among datasets provided by SAPRIN, or among data from SAPRIN and other datasets that could identify individuals or organizations.
- 5)The Data User will ensure that the data are kept in a secured environment and that only authorized users have access to the data.
- 6)Any books, articles, conference papers, theses, dissertations, reports, or other publications that employ data obtained from SAPRIN will cite the source of data in accordance with the Citation Requirement provided with each dataset.
- 7)An electronic copy of all reports and publications based on the requested data will be sent to SAPRIN.
- 8)The original collector of the data, SAPRIN, and relevant funding agencies bear no responsibility for use of the data or for interpretations or inferences based upon such uses.
- 9) Once the data set has served its indicated purpose it must be destroyed. If the dataset needs to be lodged for publication purposes, a reference (a digital object identifier will be maintained by SAPRIN for this purpose) to the original dataset on the SAPRIN data repository should be used. Derived or aggregated datasets produced from the original dataset do not fall within this provision and may be lodged as publication datasets. If the same dataset is needed for a different purpose, the dataset should be re-requested and the new purposes indicated.

### CITATION REQUIREMENTS

Any use of this data must cite the digital object identifier (doi) associated with the appropriate dataset. Using the following form:

Maoyi, ML; Mutevedzi, T; Collinson, M; Herbst, K (2024) : SAPRIN Individual Surveillance Episodes 2024: Age-Year-Household Socioeconomic Status Dataset. South African Population Research Infrastructure Network.  
<https://doi.org/10.23667/SAPRIN.SISEYAHSSD2024V1>

Maoyi, ML; Mutevedzi, T; Collinson, M; Herbst, K (2024) : SAPRIN Individual Surveillance Episodes 2024: Age-Year-Household Observation Status Dataset. South African Population Research Infrastructure Network.  
<https://doi.org/10.23667/SAPRIN.SISEYAHOD2024V1>

Maoyi, ML; Mutevedzi, T; Collinson, M; Herbst, K (2024) : SAPRIN Individual Surveillance Episodes 2024: Age-Year-Household Socioeconomic Status Observation Dataset. South African Population Research Infrastructure Network.  
<https://doi.org/10.23667/SAPRIN.SISEYAHSSOD2024V1>

### ACCESS AUTHORITY

Name	Affiliation	Email	URL
SAPRIN Data Management	SAPRIN	saprindata@mrc.ac.za	<a href="#">Link</a>

## Disclaimer and copyrights

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### DISCLAIMER

The user of the data acknowledges that the original collector of the data and the relevant funding agencies bear no responsibility for the data's use or interpretation or inferences based upon it.

### COPYRIGHT

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## Metadata production

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### DDI DOCUMENT ID

DDI.SAPRIN.SISEYAHSSD2024V1

### PRODUCERS

Name	Abbreviation	Affiliation	Role
Molulaqhoob Linda Maoyi	MLM	SAPRIN	Documentation of Study and Review of the metadata
Kobus Herbst	KH	SAPRIN	Documentation of Study and Review of the metadata
Mark Collinson	MC	SAPRIN	Documentation of Study and Review of the metadata
Tinofa Mutevedzi	TM	SAPRIN	Documentation of Study and Review of the metadata

### DATE OF METADATA PRODUCTION

2025-07-01

### DDI DOCUMENT VERSION

Version 2 (July 2025)

**Data Dictionary**

<b>Data file</b>	<b>Cases</b>	<b>Variables</b>
<b>SISEYAHOD2024V1</b>	0	6
<b>SISEYAHSSD2024V1</b>	0	8
<b>SISEYAHSSOD2024V1</b>	0	43



**Data file: SISEYAHOD2024V1**

Cases: 0

Variables: 6

**Variables**

ID	Name	Label	Question
V1	Nodeld	SAPRIN Node identifier	
V2	HouseholdId	Unique household identifier	
V3	ObservationId	Unique observation identifier	
V4	StartDate	Start Date (inclusive)	
V5	EndDate	End Date (inclusive)	
V6	ObservationDate	Observation date	

Total: 6

**Data file: SISEYAHSSD2024V1**

Cases: 0

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Variables: 8

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**Variables**

ID	Name	Label	Question
V7	Nodeld	SAPRIN Node identifier	
V8	ObservationId	Unique observation identifier	
V9	ModernIdx	Modern Asset index	
V10	LivestockIdx	Livestock index	
V11	DwellingIdx	Dwelling index	
V12	WaterSanitationIdx	Water and sanitation index	
V13	PowerSupplyIdx	Power supply index	
V14	SEIdx	Socio-economic index	

Total: 8

**Data file: SISEYAHSSOD2024V1**

Cases: 0

Variables: 43

**Variables**

ID	Name	Label	Question
V15	Nodeld	SAPRIN Node identifier	
V16	IndividualId	Unique individual identifier	
V17	Sex	Sex of individual	
V18	DoB	Date of birth	
V19	DoD	Date of death	
V20	MotherId	Mother's IndividualId	
V21	FatherId	Father's IndividualId	
V22	LocationId	Where individual was resident, household residence if non-resident	
V23	HouseholdId	Unique household identifier of the household the individual is a member of	
V24	HHRelationshipTypeId	Relationship to head of household	
V25	Resident	Whether individual is resident for duration of episode	
V26	Episode	This episode number (first=1, last=Episodes)	
V27	Episodes	Total number of episodes for individual	
V28	StartDate	Start date of episode (inclusive)	
V29	EndDate	End date of episode (inclusive)	
V30	Days	Duration in days of episode	
V31	CalendarYear	Calendar year during episode	
V32	Age	Age in completed years during episode	
V33	AgeGroup	Age group during episode	
V34	Born	Episode starts with the birth of the individual	
V35	Enumeration	Episode starts with an enumeration	
V36	InMigration	Episode starts with an in-migration	
V37	LocationEntry	Episode starts with an internal migration	
V38	ExtResStart	Flag to indicate start of external residence	
V39	Participation	Resumed participation after refusal	
V40	Died	Episode ends with the death of the individual	
V41	OutMigration	Episode ends with the out-migration	
V42	LocationExit	Episode ends with an internal migration	
V43	ExtResEnd	Flag to indicate end of external residence	
V44	Refusal	Individual refused follow-up	
V45	LostToFollowUp	Individual was lost to follow-up at the end of the episode	
V46	Current	Individual still under surveillance	
V47	HHRelationship	Relationship to head of household changed during this episode	
V48	MembershipStart	Flag to indicate start of household membership	
V49	MembershipEnd	Flag to indicate end of household membership	
V50	GapStart	Start of a gap in individual exposure record	
V51	GapEnd	End of gap in individual exposure record	
V52	AgeChange	Flag age changed	

ID	Name	Label	Question
V53	YrChange	Flag calendar year changed	
V54	Memberships	Number of concurrent household memberships	
V55	EducationStatus	Education level achieved during this calendar year	
V56	ObservationId	Link to HouseholdObservations & HouseholdSocioEconomicStatus	
V57	HouseholdStatusChange	Change in household socio-economic status	

Total: 43



**NODEID: SAPRIN Node identifier****Data file: SISEYAHOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 9 Range: 1 - 3 Format: Numeric

**Questions and instructions**

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## CATEGORIES

Value	Category
1	Agincourt
2	DIMAMO
3	AHRI

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**HOUSEHOLDID: Unique household identifier****Data file: SISEYAHOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 39752 Format: Numeric

**OBSERVATIONID: Unique observation identifier****Data file: SISEYAHOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 301330 Format: Numeric

**STARTDATE: Start Date (inclusive)****Data file: SISEYAHOD2024V1****Overview**

Valid: 0

Type: Discrete Width: 11 Range: - Format: character

**ENDDATE: End Date (inclusive)****Data file: SISEYAHOD2024V1****Overview**

Valid: 0

Type: Discrete Width: 11 Range: - Format: character

**OBSERVATIONDATE: Observation date**

**Data file: SISEYAHOD2024V1**

**Overview**

Valid: 0

Type: Discrete    Width: 11    Range: -    Format: character

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### **LIVESTOCKIDX: Livestock index**

**Data file: SISEYAHSSD2024V1**

#### **Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 1 Format: Numeric

---

### **DWELLINGIDX: Dwelling index**

**Data file: SISEYAHSSD2024V1**

#### **Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 1 Format: Numeric

---

### **WATERSANITATIONIDX: Water and sanitation index**

**Data file: SISEYAHSSD2024V1**

#### **Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 1.875 Format: Numeric

---

### **POWERSUPPLYIDX: Power supply index**

**Data file: SISEYAHSSD2024V1**

#### **Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 1 Format: Numeric

---

### **SEIDX: Socio-economic index**

**Data file: SISEYAHSSD2024V1**

#### **Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 0.0133333336561918 - 0.986666679382324 Format: Numeric

---

### **NODEID: SAPRIN Node identifier**

**Data file: SISEYAHSSD2024V1**

#### **Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 9 Range: 1 - 3 Format: Numeric

## Questions and instructions

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### CATEGORIES

Value	Category
1	Agincourt
2	DIMAMO
3	AHRI

---

### **OBSERVATIONID: Unique observation identifier**

Data file: SISEYAHSSD2024V1

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 301330 Format: Numeric

---

### **MODERNIDX: Modern Asset index**

Data file: SISEYAHSSD2024V1

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 1 Format: Numeric

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**NODEID: SAPRIN Node identifier****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 9 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Agincourt
2	DIMAMO
3	AHRI

**INDIVIDUALID: Unique individual identifier****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 308940 Format: Numeric

**SEX: Sex of individual****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 9 Range: 0 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Male
2	Female
3	Unknown

**DOB: Date of birth****Data file: SISEYAHSSOD2024V1**

**Overview**

Valid: 0

Type: Discrete    Width: 11    Range: -    Format: character

**DOD: Date of death****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0

Type: Discrete    Width: 11    Range: -    Format: character

**MOTHERID: Mother's IndividualId****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 9    Range: 13 - 308937    Format: Numeric

**FATHERID: Father's IndividualId****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 9    Range: 49 - 308936    Format: Numeric

**LOCATIONID: Where individual was resident, household residence if non-resident****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 9    Range: 0 - 35891    Format: Numeric

**HOUSEHOLDID: Unique household identifier of the household the individual is a member of****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 9    Range: 1 - 40054    Format: Numeric

**HHRELATIONSHIPTYPEID: Relationship to head of household****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 22 Range: 1 - 12 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Head
2	Spouse
3	Child
4	Son/Daughter-inlaw
5	Grandchild
6	Parent
7	Parent-inlaw
8	Grandparent
9	Sibling
10	Other relative
11	Domestic worker/tenant
12	Unrelated/Other

**RESIDENT: Whether individual is resident for duration of episode****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**EPISODE: This episode number (first=1, last=Episodes)**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 1 - 98 Format: Numeric

---

**EPISODES: Total number of episodes for individual**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 1 - 98 Format: Numeric

---

**STARTDATE: Start date of episode (inclusive)**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0  
 Type: Discrete Width: 11 Range: - Format: character

---

**ENDDATE: End date of episode (inclusive)**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0  
 Type: Discrete Width: 11 Range: - Format: character

---

**DAYS: Duration in days of episode**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 1 - 366 Format: Numeric

---

**CALENDARYEAR: Calendar year during episode**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 1992 - 2023 Format: Numeric

### AGE: Age in completed years during episode

Data file: SISEYAHSSOD2024V1

#### Overview

Valid: 0 Invalid: 0  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 199 Format: Numeric

### AGEGROUP: Age group during episode

Data file: SISEYAHSSOD2024V1

#### Overview

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 9 Range: 0 - 18 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
0	<1
1	01-04
2	05-09
3	10-14
4	15-19
5	20-24
6	25-29
7	30-34
8	35-39
9	40-44
10	45-49
11	50-54
12	55-59
13	60-64
14	65-69
15	70-74
16	75-79
17	80-84
18	85+

**BORN: Episode starts with the birth of the individual**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**ENUMERATION: Episode starts with an enumeration**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**INMIGRATION: Episode starts with an in-migration**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-1	Unknown/Missing

0	No
1	Yes

**LOCATIONENTRY: Episode starts with an internal migration**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**EXTRESSTART: Flag to indicate start of external residence**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**PARTICIPATION: Resumed participation after refusal**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

## Questions and instructions

---

### CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

## **DIED: Episode ends with the death of the individual**

Data file: SISEYAHSSOD2024V1

### Overview

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

## Questions and instructions

---

### CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

## **OUTMIGRATION: Episode ends with the out-migration**

Data file: SISEYAHSSOD2024V1

### Overview

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

## Questions and instructions

---

### CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**LOCATIONEXIT: Episode ends with an internal migration****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**EXTRESEND: Flag to indicate end of external residence****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**REFUSAL: Individual refused follow-up****Data file: SISEYAHSSOD2024V1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-1	Unknown/Missing

0	No
1	Yes

**LOSTTOFOLLOWUP: Individual was lost to follow-up at the end of the episode**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: 0 - 1 Format: Numeric

**CURRENT: Individual still under surveillance**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**HHRELATIONSHIP: Relationship to head of household changed during this episode**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

## MEMBERSHIPSTART: Flag to indicate start of household membership

Data file: SISEYAHSSOD2024V1

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

## MEMBERSHIPEND: Flag to indicate end of household membership

Data file: SISEYAHSSOD2024V1

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

## GAPSTART: Start of a gap in individual exposure record

Data file: SISEYAHSSOD2024V1

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
-1	Unknown/Missing

0	No
1	Yes

**GAPEND: End of gap in individual exposure record**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**AGECHANGE: Flag age changed**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

**Questions and instructions**

CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

**YRCHANGE: Flag calendar year changed**

Data file: SISEYAHSSOD2024V1

**Overview**

Valid: 0 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

## Questions and instructions

---

### CATEGORIES

Value	Category
-1	Unknown/Missing
0	No
1	Yes

### MEMBERSHIPS: Number of concurrent household memberships

Data file: SISEYAHSSOD2024V1

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 9 Range: 1 - 11 Format: Numeric

---

### EDUCATIONSTATUS: Education level achieved during this calendar year

Data file: SISEYAHSSOD2024V1

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 18 Range: -1 - 99 Format: Numeric

## Questions and instructions

---

### CATEGORIES

Value	Category
-1	Unknown
0	Grade 0
1	Grade 1
2	Grade 2
3	Grade 3
4	Grade 4
5	Grade 5
6	Grade 6
7	Grade 7
8	Grade 8
9	Grade 9
10	Grade 10
11	Grade 11
12	Grade 12

13	Special School
21	Higher Certificate
22	National Diploma
23	Degree
24	Honours
25	Masters
26	Doctors
31	ABET 1
32	ABET 2
33	ABET 3
34	ABET 4
41	FET 1
42	FET 2
43	FET 3
50	LT 1 year
51	Creche
96	Refused
97	NAD
98	No education
99	Not attending

## **OBSERVATIONID: Link to HouseholdObservations & HouseholdSocioEconomicStatus**

Data file: SISEYAHSSOD2024V1

### **Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 301330 Format: Numeric

## **HOUSEHOLDSTATUSCHANGE: Change in household socio-economic status**

Data file: SISEYAHSSOD2024V1

### **Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

### **Questions and instructions**

#### CATEGORIES

Value	Category
-1	Unknown/Missing

0	No
1	Yes