

South Africa - AHRI.Surveillance Episodes Maps All

Nompumelelo Mkwazi

Report generated on: February 19, 2026

Visit our data catalog at: <https://data.ahri.org/index.php>

Identification

SURVEY ID NUMBER

AHRI.MapsAll

TITLE

AHRI.Surveillance Episodes Maps All

COUNTRY

Name	Country code
South Africa	ZA

ABSTRACT

Africa Health Research Institute (AHRI) is a multidisciplinary, independent research institute. AHRI's goal is to become a source of fundamental discoveries into the susceptibility, transmission and cure of HIV, TB and related diseases. We also seek ways to improve diagnosis, prevention and treatment. To achieve this, we bring together leading researchers from different fields, use cutting edge science to improve people's health, and help to train the next generation of African scientists.

AHRI has conducted individual and household demographic surveillance since 2000. Demographic surveillance data are processed for longitudinal analyses by organizing the demographic surveillance data into individual and household residency episodes at a geographical physical location, and individual membership episodes within a household. Start events of residency and memberships include enumeration, birth, in-migration and relocating into a household from within the study population. Exit events of residency and memberships include death (by cause), out-migration and relocating to another location in the study population. AHRI annually produces a suite of Individual Demographic surveillance datasets which contains detailed records of all individuals under surveillance since January 2000. The datasets detail individual residency and membership patterns, household mortality (including cause of death), fertility, migration, HIV status, health care utilization, and household socio-economic profile.

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, marital status, social-economic status and HIV will likewise result in a new episode on the date of the change.

The following are the versions of the Demographic surveillance datasets:

CoresidencyEpisodes
 EducationCleaned
 EducationStatuses
 HIVStatusEpisodes
 HouseholdAssets
 HouseholdMap
 HouseholdObservations
 HouseholdSocioEconomicStatus
 HouseholdStatusEpisodes
 IndividualHSEEpisodes
 IndividualMap
 LabourEpisodes
 LabourStatuses
 LocationMap
 MaritalStatuses
 PartnerEpisodes
 SurveillanceEpisodesBasic
 SurveillanceEpisodesYTAge
 SurveillanceEpisodes YrAge_Coresidency
 SurveillanceEpisodesYrAge_HIV
 SurveillanceEpisodes VrAge_HSE
 SurveillanceEpisodes YrAge_Labour

SurveillanceEpisodesYrAge_Partners
 SurveillanceEpisodesYrAgeDel
 SurveillanceEpisodes VrAgeDel_HSE
 SurveillanceEpisodesYrAgeDeL_HSE_Labour
 SurveillanceEpisodesYrAgeDeL_HSE_Labour_Partner_Parents
 SurveillanceEpisodes VrAgeDel_HSE_Labour_Partner_Parents_HIV
 SurveillanceEpisodesYrAgeDeL_HSE_Labour_Partners

KIND OF DATA

Event History Data

UNIT OF ANALYSIS

Episodes of exposure

Version

VERSION DESCRIPTION

v2.0.0

Scope

TOPICS

Topic	Vocabulary	URI
Surveillance Maps	Africa Health Research Institute	www.ahri.org

KEYWORDS

Keyword	Vocabulary	URI
maps	Africa Health Research Institute	www.ahri.org

Coverage

GEOGRAPHIC COVERAGE

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 form portions where the KwaMsane township strangles the highway) and in the north by the provincial road R22. The surveillance area is approximately 850km² in size.

UNIVERSE

Households resident in dwellings within the study area are eligible for inclusion in the household component of AHRI Demographic Surveillance. All individuals identified by the household proxy informant as members of the households are enumerated. A resident household member is an individual that intends to sleep majority of time at the dwelling occupied by the household over a four-month period. Households 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 at the dwelling most of the time. Non-resident members 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	AHRI, SAPRIN

Dr Guy Harling	AHRI
Dr Mark Siedner	AHRI
Prof Willem Hanekom	AHRI

PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Wellcome Trust	WT	Core funding
SAPRIN	SAPRIN	

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
AHRI Research Data Management Team	AHRI	Research Data Management
AHRI Data Collection Team	AHRI	Data Collection
AHRI Community Engagement Team	AHRI	Community Engagement

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
2000-01-01	2024-12-31

Access policy

ACCESS CONDITIONS

Access to the data requires accurate completion of the online data access application form accessible on the AHRI Data repository (<<https://data.ahri.org/>>). Data users are required to abide by the data use conditions stipulated on the application for access to the data. Failure to do so may result in their data access privileges being revoked by the Data Custodian. In order to recognise the effort and intellectual contributions of AHRI investigators in producing and curating the data, users of AHRI data must acknowledge the source of the data and abide by the terms and conditions under which the data is accessed and must cite the dataset in publication using the citation provided as part of this documentation. All analytical datasets published on the AHRI Data Repository are assigned digital object identifier (DOIs) and the DOIs can be found on the Data Repository under Study Description tab - Access policy. AHRI data users are required to always cite the dataset using the relevant DOI.

<https://github.com/SAPRIN-MRC/SaprinEpisodes.jl.git>

CITATION REQUIREMENTS

Herbst, K., Harling, G., Siedner, M., & Hanekom, W. (2026). AHRI.Surveillance Episodes Maps All [Data set]. Africa Health Research Institute.

DOI:<https://doi.org/10.23664/AHRI.MAPSALL>

Metadata production

DDI DOCUMENT ID

DDI.AHRI.MapsAll

PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

Data Dictionary

Data file	Cases	Variables
HouseholdMap	41014	2
IndividualMap	263153	4
LocationMap	37292	4

Data file: HouseholdMap

Cases: 41014

Variables: 2

Variables

ID	Name	Label	Question
V61	HouseholdUid		
V62	HouseholdId		

Total: 2

Data file: IndividualMap

Cases:	263153
Variables:	4

Variables

ID	Name	Label	Question
V63	IndividualId		
V64	IndividualUid		
V65	IntID		
V66	TASPIId		

Total: 4

Data file: LocationMap

Cases:	37292
Variables:	4

Variables

ID	Name	Label	Question
V67	LocationId		
V68	LocationUid		
V69	BSIntID		
V70	BSID		

Total: 4

HOUSEHOLDUID:

Data file: HouseholdMap

Overview

Valid: 41014 Invalid: 0
Type: Discrete Width: 36 Range: - Format: character

HOUSEHOLDID:

Data file: HouseholdMap

Overview

Valid: 41014 Invalid: 0 Minimum: 1 Maximum: 41014 Mean: 20507.5 Standard deviation: 11839.866
Type: Continuous Decimal: 0 Width: 9 Range: 1 - 41014 Format: Numeric

INDIVIDUALID:**Data file: IndividualMap****Overview**

Valid: 263153 Invalid: 0 Minimum: 1 Maximum: 263153 Mean: 131577 Standard deviation: 75965.872
 Type: Continuous Decimal: 0 Width: 9 Range: 1 - 263153 Format: Numeric

INDIVIDUALUID:**Data file: IndividualMap****Overview**

Valid: 263153 Invalid: 0
 Type: Discrete Width: 36 Range: - Format: character

IINTID:**Data file: IndividualMap****Overview**

Valid: 258492 Invalid: 4661 Minimum: 11 Maximum: 275969 Mean: 139100.459 Standard deviation:
 80556.39
 Type: Continuous Decimal: 0 Width: 9 Range: 11 - 275969 Format: Numeric

TASPID:**Data file: IndividualMap****Overview**

Valid: 21591 Invalid: 241562 Minimum: 5 Maximum: 100212 Mean: 16341.583 Standard deviation:
 10877.291
 Type: Continuous Decimal: 0 Width: 9 Range: 5 - 100212 Format: Numeric

LOCATIONID:**Data file:** LocationMap**Overview**

Valid: 37292 Invalid: 0 Minimum: 1 Maximum: 37292 Mean: 18646.5 Standard deviation: 10765.417
 Type: Continuous Decimal: 0 Width: 9 Range: 1 - 37292 Format: Numeric

LOCATIONUID:**Data file:** LocationMap**Overview**

Valid: 37292 Invalid: 0
 Type: Discrete Width: 36 Range: - Format: character

BSINTID:**Data file:** LocationMap**Overview**

Valid: 35891 Invalid: 1401 Minimum: 4 Maximum: 999998 Mean: 49657.307 Standard deviation: 92635.358
 Type: Continuous Decimal: 0 Width: 9 Range: 4 - 999998 Format: Numeric

BSID:**Data file:** LocationMap**Overview**

Valid: 35891 Invalid: 1401 Minimum: 10000 Maximum: 99998 Mean: 52773.464 Standard deviation:
 27008.181
 Type: Continuous Decimal: 0 Width: 9 Range: 10000 - 99998 Format: Numeric

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