

**South Africa**

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**AHRI.Household Assets**

**Study Documentation**

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# Metadata Production

<b>Metadata Producer(s)</b>	Africa Health Research Institute (AHRI)
<b>Identification</b>	DDI.AHRI.Household.Assets

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## AHRI.Household Assets

### Overview

<b>Identification</b>	AHRI.Household.Assets
<b>Version</b>	v2.0.0

#### 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	
<b>Kind of Data</b>	Event History Data
<b>Unit of Analysis</b>	Episodes of exposure

<b>Scope &amp; Coverage</b>	
<b>Keywords</b>	Fertility, Mortality, Migration, Social-economic status, HIV, ART
<b>Topics</b>	Household Assets
<b>Time Period(s)</b>	2000-2024
<b>Countries</b>	South Africa
<b>Geographic Coverage</b>	
<p>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 845km<sup>2</sup> in size.</p>	
<b>Universe</b>	
<p>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.</p>	

<b>Producers &amp; Sponsors</b>	
<b>Primary Investigator(s)</b>	Dr Kobus Herbst, AHRI, SAPRIN Dr Guy Harling, AHRI Dr Mark Siedner, AHRI Prof Willem Hanekom, AHRI
<b>Other Producer(s)</b>	Africa Health Research Institute (AHRI)
<b>Funding Agency/ies</b>	Wellcome Trust (WT) , Core funding SAPRIN (SAPRIN)
<b>Other Acknowledgment(s)</b>	AHRI Research Data Management Team , Research Data Management , AHRI AHRI Data Collection Team , Data Collection , AHRI AHRI Community Engagement Team , Community Engagement , AHRI

<b>Sampling</b>
<b>Sampling Procedure</b>
This dataset is not based on a sample but contains information from the complete demographic surveillance areas.

## Data Collection

<b>Data Collection Dates</b>	start 2000-02-22 end 2024-12-12
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## Data Processing & Appraisal

### Data Editing

Data collected in this study was centrally stored on AHRI's secure database servers. Data was collected through interviews at the call centre on central server using Survey Solutions, and in the field on paper and encrypted tablet computers using REDCap, and then securely uploaded to a central server. Database rules and constraints were enforced on the master database to ensure that only valid data was stored. Personally identifiable data was restricted to separate database tables accessible only to data management staff .

## Accessibility

### 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

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DOI: <https://doi.org/10.23664/AHRI.HOUSEHOLD.ASSETS>

# Files Description

Dataset contains 1 file(s)

HouseholdAssets	
# Cases	2810399
# Variable(s)	5

# Variables List

Dataset contains 5 variable(s)

File HouseholdAssets							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	<a href="#">Observat ..</a>	Unique observation identifier	continuous	numeric-9.0	2810399	0	-
2	<a href="#">Househol ..</a>	Unique household identifier	continuous	numeric-9.0	2810399	0	-
3	<a href="#">Observat ..</a>	Observation date	continuous	numeric-11.0	2810399	0	-
4	<a href="#">AssetId</a>	Asset kind	discrete	numeric-29.0	2810399	0	-
5	<a href="#">AssetType</a>	The type of asset - used in index creation	discrete	character-9	2810399	0	-

# Variables Description

Dataset contains 5 variable(s)

## File : HouseholdAssets

### # ObservationId: Unique observation identifier

**Information** [Type= continuous] [Format=numeric] [Range= 1-290708] [Missing=\*]

**Statistics [NW/ W]** [Valid=2810399 /-] [Invalid=0 /-] [Mean=151534.762 /-] [StdDev=81725.113 /-]

### # HouseholdId: Unique household identifier

**Information** [Type= continuous] [Format=numeric] [Range= 1-41014] [Missing=\*]

**Statistics [NW/ W]** [Valid=2810399 /-] [Invalid=0 /-] [Mean=20487.618 /-] [StdDev=11821.049 /-]

### # ObservationDate: Observation date

**Information** [Type= continuous] [Format=numeric] [Range= 1266796800000-2076071864000] [Missing=\*]

**Statistics [NW/ W]** [Valid=2810399 /-] [Invalid=0 /-] [Mean=1778009685885.16 /-] [StdDev=209014998951.973 /-]

### # AssetId: Asset kind

**Information** [Type= discrete] [Format=numeric] [Range= 1-120] [Missing=\*]

**Statistics [NW/ W]** [Valid=2810399 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Telephone	6708	0.2%
2	Cellphone	238815	8.5%
3	PrimusCooker	51385	1.8%
4	HotPlate	162338	5.8%
5	Stove	79654	2.8%
6	GasCooker	105989	3.8%
7	Fridge	210928	7.5%
8	Kettle	162637	5.8%
9	Television	192098	6.8%
10	DVD	3010	0.1%
11	Radio	184331	6.6%
12	SewingMachine	14684	0.5%
13	BlockMaker	17335	0.6%
14	Car	46883	1.7%
15	Motorcycle	2348	0.1%
16	Bicycle	11573	0.4%
17	Microbus	835	0.0%
18		4886	0.2%
19	Bed	247624	8.8%
20	Table	121421	4.3%
21	Sofa	159930	5.7%
22	KitchenSink	24060	0.9%
23	SolarPanel	13379	0.5%
24	Wheelbarrow	169787	6.0%
25	Spade	218397	7.8%
26	BedNets	5344	0.2%
27	Cattle	44789	1.6%
28	OtherLivestock	259258	9.2%
100	Cart	0	
101	Chicken	0	

## File : HouseholdAssets

### # AssetId: Asset kind

Value	Label	Cases	Percentage
102	DSTV	15302	0.5%
103	ElectricIron	0	
104	ElectricLights	0	
105	Goats	495	0.0%
106	Heater	814	0.0%
107	Microwave	30786	1.1%
108	Sheep	12	0.0%
109	Swimming pool	15	0.0%
110	Air conditioner	145	0.0%
111	Computer/Desktop/Laptop	1027	0.0%
112	Vacuum cleaner/Floor polisher	45	0.0%
113	Dish washing machine	104	0.0%
114	Tumble drier	808	0.0%
115	Home security service	155	0.0%
116	Geyser	256	0.0%
120	Pigs	9	0.0%

*Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.*

### # AssetType: The type of asset - used in index creation

<b>Information</b>	[Type= discrete] [Format=character] [Missing=*]
<b>Statistics [NW/ W]</b>	[Valid=2810399 /-] [Invalid=0 /-]