

Burkina Faso, Kenya, South Africa - Multi-centre Analysis of the Dynamics of Internal Migration and Human Capital in Selected INDEPTH Centres in Sub-Saharan Africa - Release 2016

**Collinson, Mark A. - Medical Research Council/Wits Rural Public Health and Health
Transitions Research Unit (Agincourt), School of Public Health, Faculty of Health
Sciences, University of the Witwater**

Report generated on: July 30, 2018

Visit our data catalog at: <http://indepth-ishare.org/index.php>

Overview

Identification

ID NUMBER

INDEPTH.GH004.MIG.2014.v1

Version

VERSION DESCRIPTION

v1: Edited data and documentation

v2: Edited data for public distribution

PRODUCTION DATE

2016-05

Overview

ABSTRACT

The abstract below from Ginsburg, C., Bocquier, P., Béguy, D., Afolabi, S., Augusto, O., Derra, K., Odhiambo, F., Otiende, M., Soura, A., Zabre, P., White, M.J., and Collinson, M.A. (2016). Human capital on the move: Education as a determinant of internal migration in selected INDEPTH surveillance populations in Africa. *Demographic Research*. 34(30): 845-884 is an example of a use of these data:

BACKGROUND: Education, as a key indicator of human capital, is considered one of the major determinants of internal migration, with previous studies suggesting that human capital accumulates in urban areas at the expense of rural areas. However, there is fragmentary evidence concerning the educational correlates of internal migration in sub-Saharan Africa.

OBJECTIVES: The study questions whether more precise measures of migration in Health and Demographic Surveillance System (HDSS) populations support the hypothesis that migrants are self-selected on human capital and more educated people are more likely to leave rural areas, or enter urban areas within a geographical region.

METHODS: Using unique longitudinal data representing approximately 900 000 people living in eight sub-Saharan African HDSS sites that are members of the INDEPTH Network, the paper uses Event History Analysis techniques to examine the relationship between formal educational attainment and in- and out-migration, over the period 2009 to 2011.

RESULTS: Between 7% and 27% of these local populations are moving in- or out- of the HDSS area over this period. Education is positively associated with both in- and out-migration in the Kenyan HDSS areas, however, the education effect has no clear pattern in the HDSS sites in Burkina Faso, Mozambique and South Africa.

CONCLUSIONS: Empirical results presented in this paper confirm a strong age profile of migration consistent with human capital expectation, yet the results point to variability in the association of education and the propensity to migrate. In particular, the hypothesis of a shift of human capital from rural to urban areas is not universally valid.

KIND OF DATA

Event history data

UNITS OF ANALYSIS

Individual

Scope

NOTES

Demographic events of Individuals in six HDSS populations.

Strict residency criteria: irrespective of the HDSS population definition we chose a residence criteria of 6 months required to be present in the population. Likewise, absence of 6 months was defined for out-migration.

Migration definition: migration is defined as crossing the field-site boundary and changing residency status as determined by the 6 month residency criteria described above.

TOPICS

Topic	Vocabulary	URI
demography	I01.240.050	
age distribution	I01.240.600	
populatrion dynamics	I01.240.600.350	
emigration and immigration	I01.240.800	
internal migration		
sex distribution	I01.240.800	
Africa	Z01.058	
South Africa	Z01.058.290.175.735	
Kenya	Z01.058.290.120.400	
Burkina Faso	Z01.058.290.190.245	

KEYWORDS

Internal Migration, sub-Saharan Africa, Human Capital, Education, Health and Demographic Surveillance System, Kenya, South Africa, Burkina Faso

Coverage

GEOGRAPHIC COVERAGE

The data cover dynamic, demographic surveillance populations from six INDEPTH centres in three countries of sub-Saharan Africa, namely Burkina Faso, Kenya, and South Africa.

UNIVERSE

In each of the six participating HDSS centres all individuals in the population are included in an open cohort.

The date of right censoring is 1 January 2012. A person who in-migrated according to the study definition enters the cohort and a person who leaves the cohort through out-migration exits the cohort. If a person moves within the boundaries of the surveillance population and is shown by the HDSS to be the same person who enters one household and leaves another household remains in the cohort and the internal in and out moves are recorded as demographic events.

The datasets have differening start dates depending on the inception of the HDSS site.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Collinson, Mark A.	Medical Research Council/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa

Name	Affiliation
Bocquier, Philippe	Centre de Recherche en Démographie et Sociétés, Université Catholique de Louvain, Louvain-la-Neuve, Belgium
Ginsburg, Carren	Medical Research Council/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa
Beguy, Donatien	African Population and Health Research Centre, Nairobi, Kenya
Afolabi, Sulaimon	Medical Research Council/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa
Derra, Karim	Clinical Research Unit of Nanoro (CRUN), Nanoro, Burkina Faso
Odhiambo, Frank	Kenya Medical Research Institute & CDC - Centre for Global Health Research, Kisumu, Kenya
Soura, Abdramane	Institut Supérieur des Sciences de la Population (ISSP), Université de Ouagadougou, Burkina Faso
Zabré, Pascal	Centre de Recherche en Santé de Nouna, Nouna, Burkina Faso

FUNDING

Name	Abbreviation	Role
Swedish International Development Agency	Sida	
National Research Foundation, South Africa	NRF	
Wallonia-Brussels Federation of Belgium	FNRS	
INDEPTH Secretariat	INDEPTH	
South African Medical Research Council	SAMRC	

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
none		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Migration, Urbanisation and Health Working Group	INDEPTH MUHWG	INDEPTH Network	agency
iSHARE2 Technical Team	iS2TT	INDEPTH Network	Documentation of the study
INDEPTH Network	int.indepth	INDEPTH Network	agency

DATE OF METADATA PRODUCTION

2016-05

DDI DOCUMENT VERSION

Version 1 (May 2016)

DDI DOCUMENT ID

DDI.INDEPTH.GH004.MIG.2014.v1

Sampling

Sampling Procedure

Here is a list of participating centres, giving the country, population size and size of the site:

Nanoro HDSS, Burkina Faso, population: 61000, site size: 594.3 km²

Nouna HDSS, Burkina Faso, population: 84336, site size: 1756 km²

Ouagadougou HDSS Burkina Faso, population: 81717, site size: 14.7 km²

Kisumu HDSS Kenya, population: 223406, site size: 700 km²

Nairobi HDSS Kenya, population: 71000, site size: 0.97 km²

Agincourt HDSS South Africa, population: 91178, site size: 420 km²

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
1992-03-01	2012-01-01	N/A

Time Periods

Start	End	Cycle
--------------	------------	--------------

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

These datasets are derived from individual-level data at each Health and Demographic Surveillance centre - details of data collection methods are available from individual HDSS centres.

Each dataset covers a different period depending on the longevity of surveillance.

Ouagadougou Burkina Faso

Nouna Burkina Faso

Nanoro Burkina Faso

Kisumu Kenya

Nairobi Kenya

Agincourt South Africa

Data Processing

Data Editing

The HDSS collects data on residence episodes for each individual in the surveillance system.

Data editing is done to check basic inconsistencies on dates and types of events: out-of-range values, coding errors, unusual frequencies. An important quality check involves the construction of a matrix crossing (current) events with following-events, referred to as the event consistency matrix to check the coherence of event sequences.

List of instructions and recommendations to create an Event History Analysis (EHA) file

Five steps are necessary to come up with the desired file:

- A. EHA file without covariates: this file has already been created in previous MADIMAH workshops along what are now INDEPTH standards (see INDEPTH Individual Level Data Specification V2.1, dated July 2012; and editorial by Osman Sankoh & Peter Byass in *Int J of Epidemiology*, April 2012).
- B. Create a file with covariates attached to individual identifiers and the corresponding round date.
- C. Create a file with covariates attached to household identifiers and the corresponding round date.
- D. "tmerge" EHA file and individual covariate file according to individual identifier and time (EHA-IND).
- E. "tmerge" this EHA-IND file and household covariate file according to household identifier and time (EHA-IND-HH).

Step A: Harmonise EHA file (this step is a reminder from previous workshops):

1. Harmonise variable names and labels according to INDEPTH standard.
2. Check with matrix crossing "event" with "following event" that all order inconsistencies are removed.
3. Check that the file contains an end of observation (OBE) event and its corresponding date (e.g. 31 Dec 2010) for all individuals, including those who are currently out of the HDSS system (because of DTH or OMG). The date of OBE should be the same for all individuals.
4. Sort by individual identifier IndividualId and date of event EventDate.
5. Save file under the name "yoursite_core.dta" (with the name of your site).

Step B: Create file with individual covariates:

1. From "yoursite_core.dta", create a temporary file "ind_residency.dta" with IndividualId and EventDate. This file should have only one observation per individual.
2. Rename EventDate to dateIndCov.
3. Sort "ind_residency.dta" by IndividualId and save in temporary file "ind_residency.dta".

In case covariates are recorded WITHOUT actual date of change, when a change occurred between two subsequent dates of rounds when these covariates have been collected up to the round just after the end of observation (OBE) event, sites must impute date of change. The following steps are involved:

4. Open "ind_covariates.dta" file and duplicate the record (command "expand") corresponding to the observation just before a change occurred in the covariate (by comparing covariate value at $_n$ and at $_{n+1}$), and on this new record, change dateIndCov to the suitable date (e.g. mid-term between date in dateIndCov [$_{n-1}$] and dateIndCov [$_{n+1}$], or any other date that you might find suitable for this individual: e.g. end of school year if this is a change of education).
5. Create a variable EventChar and code EventChar=="ICV" for all changes in individual covariates.
6. Recode variable EventChar into "OBS" for all other observations.
7. Merge file "ind_covariates.dta" with file "ind_residency.dta" as many-to-one using IndividualId as a key: merge m:1 IndividualId using ind_residency.dta
8. Delete records with no corresponding individual identifier in file "ind_residency.dta": drop if _merge==1
9. Sort by IndividualId and dateIndCov.

10. Duplicate record just after censoring date (e.g. 1 Jan 2011), and on that record change dateIndCov to end of observation event date (censoring event, e.g. 1 Jan 2011), and recode EventChar=="OBE" for this new observation.

11. Delete all records for which dateIndCov is greater than end of observation date (censoring event, e.g. 1 Jan 2011: this date should not coincide with any observation date).

The result is a variable EventChar with ICV for all changes in individual covariates, OBS for observation time and OBE for last observation. This file "ind_covariates.dta" contains individual covariates as separate variables (e.g. education4, union5, religion, mobile2, job2...), individual identifier (IndividualId), as well as LocationId (note: there can be several LocationId per individual), and after checking that all covariates are recorded WITH date of change (whether real or imputed): dates of changes or events (dateIndCov) up to the end of observation (OBE) event (e.g. 1 Jan 2011)

12. Best is to delete records with EventChar=="OBS" (unless you want to keep some variables related to data collection, e.g. fieldworkers' identifiers: beware of the file size!)

13. Save file under the name "ind_covariates.dta".

In case covariates are recorded WITHOUT actual date of change, when a change occurred between two subsequent dates of rounds when these covariates have been collected up to the round just after the end of observation (OBE) event, sites must

impute date of change. The following steps 6 to 8 are involved:

6. Duplicate the record (command "expand") corresponding to the observation just before a change occurred in the covariate (by comparing covariate value at `_n` and at `_n+1`), and on this new record, change `dateHHCov` to the suitable date (e.g. mid-term between date in `dateHHCov[_n-1]` and `dateHHCov[_n+1]`, or any other date that you might find suitable for this household).

7. Create a variable `EventChar` and code `EventChar=="HCV"` for all changes in household covariates.

8. Recode variable `EventChar` into "OBS" for all other observations.

For all cases (with or without actual date of change):

9. Delete all records for which `EventChar` is greater than end of observation date (censoring event, e.g. 1 Jan 2011: this date should not coincide with any observation date).

10. Duplicate last record, and change `EventChar` to end of observation event date (censoring event, e.g. 1 Jan 2011), and recode `EventChar=="OBE"` for this new observation.

11. The result is a variable `EventChar` with HCV for all changes in household covariates, OBS for observation time and OBE for last observation. This file "hh_covariates.dta" contains household covariates as separate variables (e.g. `toilet3`, `electricity2`, `houseownership2...`), household identifier (`LocationId`), and after checking that all covariates are recorded WITH date of change (whether real or imputed): dates of changes or events (`dateHHCov`) up to the end of observation (OBE) event (e.g. 1 Jan 2011)

Other Processing

- An important quality check for the coherence of event sequences is the construction of a matrix crossing (current) events with following-events (the event consistency matrix).

- Checks were also performed on the logical sequencing of education data and errors in sequences as well as imputation of missing values were performed. Missing values were only imputed at a particular time point provided there were some education measures collected for that individual. Individuals who had all education measures missing were retained in the sample with education category coded "missing" (value 9: "DK").

Data Appraisal

No content available

File Description

Variable List

MADIMAH_Agincourt_Migration_HumanCapital_v1

Content

Cases 2313059

Variable(s) 9

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V10	sitecode	Agincourt	discrete	character	
V11	IndividualIdAnonymised		discrete	character	
V12	Sex		discrete	numeric	
V13	DoB		contin	numeric	
V14	datebeg	Date of beginning	contin	numeric	
V15	EventDate		contin	numeric	
V16	EventCode		discrete	numeric	
V17	residence		discrete	numeric	
V18	education4		discrete	numeric	

MADIMAH_Kisumu_Migration_HumanCapital_v1

Content
Cases 2230488
Variable(s) 9
Structure Type:
Keys: ()
Version
Producer
Missing Data

Variables

ID	Name	Label	Type	Format	Question
V19	sitecode	Kisumu	discrete	character	
V20	IndividualIdAnonymised		discrete	character	
V21	Sex		discrete	numeric	
V22	DoB		contin	numeric	
V23	datebeg	Date of beginning	contin	numeric	
V24	EventDate		contin	numeric	
V25	EventCode	Event occurred	discrete	numeric	
V26	residence		discrete	numeric	
V27	education4		discrete	numeric	

MADIMAH_Nairobi_Migration_HumanCapital_v1

Content

Cases 2027384

Variable(s) 9

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V28	sitecode	Nairobi	discrete	character	
V29	IndividualIdAnonymised		discrete	character	
V30	Sex		discrete	numeric	
V31	DoB	Date of Birth	contin	numeric	
V32	datebeg	Date of beginning	contin	numeric	
V33	EventDate		contin	numeric	
V34	EventCode		discrete	numeric	
V35	residence		discrete	numeric	
V36	education4		discrete	numeric	

MADIMAH_Nanoro_Migration_HumanCapital_v1

Content

Cases 306973

Variable(s) 9

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V37	sitecode	Nanoro	discrete	character	
V38	IndividualIdAnonymised		discrete	character	
V39	Sex		discrete	numeric	
V40	DoB		contin	numeric	
V41	datebeg	Date of beginning	contin	numeric	
V42	EventDate		contin	numeric	
V43	EventCode	Event occurred	discrete	numeric	
V44	residence		discrete	numeric	
V45	education4		discrete	numeric	

MADIMAH_Nouna_Migration_HumanCapital_v1

Content

Cases 1591399

Variable(s) 9

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V46	sitecode	Nouna	discrete	character	
V47	IndividualIdAnonymised		discrete	character	
V48	Sex		discrete	numeric	
V49	DoB		contin	numeric	
V50	datebeg	Date of beginning	contin	numeric	
V51	EventDate		contin	numeric	
V52	EventCode	Event occurred	discrete	numeric	
V53	residence		discrete	numeric	
V54	education4		discrete	numeric	

MADIMAH_Ouaga_Migration_HumanCapital_v1

Content

Cases 456932

Variable(s) 9

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V55	sitecode	Ouagadougou	discrete	character	
V56	IndividualIdAnonymised		discrete	character	
V57	Sex		discrete	numeric	
V58	DoB		contin	numeric	
V59	datebeg	Date of beginning	contin	numeric	
V60	EventDate		contin	numeric	
V61	EventCode	Event occurred	discrete	numeric	
V62	residence		discrete	numeric	
V63	education4		discrete	numeric	

Agincourt (sitecode)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2313059
Format: character	Invalid: 0
Width: 5	

Description

Name of health and demographic surveillance centre at which the data was collected

HDSS Site Code:

ZA011: Agincourt

KE021: Kisumu

KE031: Nairobi

BF021: Nanoro

BF031: Nouna

BF041: Ouagadougou

(IndividualIdAnonymised)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2313059
Format: character	Invalid: 0
Width: 6	

Description

A number uniquely identifying an individual in the dataset

(Sex)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2312931
Format: numeric	Invalid: 128
Width: 9	
Decimals: 0	
Range: 1-2	

Description

Sex of the individual

1: Male

2: Female

(DoB)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2313059
Format: numeric	Invalid: 0
Width: 11	Minimum: -2675894400000
Decimals: 0	Maximum: 1640995200000
Range: -2675894400000-1640995200000	Mean: 561112807357.7
	Standard deviation: 587059981205.5

Description

The date of birth of the individual

Date of beginning (datebeg)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2313059
Format: numeric	Invalid: 0
Width: 11	Minimum: -2675894400000
Decimals: 0	Maximum: 1640995200000
Range: -2675894400000-1640995200000	Mean: 1296924039356.1
	Standard deviation: 301374969776.1

Description

Date of beginning

(EventDate)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2313059
Format: numeric	Invalid: 0
Width: 11	Minimum: 1009843200000
Decimals: 0	Maximum: 1640995200000
Range: 1009843200000-1640995200000	Mean: 1372207650940.6
	Standard deviation: 191490689366.1

Description

The date on which the event occurred

(EventCode)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2313059
Format: numeric	Invalid: 0
Width: 11	
Decimals: 0	
Range: 1-21	

Description

A code identifying the type of event that has occurred

1: ENU
 2: BTH
 3: IMG
 4: OMG
 7: DTH
 9: OBE
 18: OBS
 20: 1Jan

(residence)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2312390
Format: numeric	Invalid: 669
Width: 9	
Decimals: 0	
Range: 0-1	

(residence)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Description

Indicates residency status in the site

0: not residence

1: resident

(education4)

File: MADIMAH_Agincourt_Migration_HumanCapital_v1

Overview

Type: Discrete

Format: numeric

Width: 19

Decimals: 0

Range: 0-9

Valid cases: 2313059

Invalid: 0

Description

Education status in four categories

0: no formal education

1: primary

2: secondary

3: tertiary

9: DK

Kisumu (sitecode)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2230488
Format: character	Invalid: 0
Width: 5	

Description

Name of health and demographic surveillance centre at which the data was collected
 HDSS Site Code:
 ZA011: Agincourt
 KE021: Kisumu
 KE031: Nairobi
 BF021: Nanoro
 BF031: Nouna
 BF041: Ouagadougou

(IndividualIdAnonymised)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2230488
Format: character	Invalid: 0
Width: 6	

Description

A number uniquely identifying an individual in the dataset

(Sex)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2230488
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-2	

Description

Sex of the individual
 1: Male
 2: Female

(DoB)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2230488
Format: numeric	Invalid: 0
Width: 11	Minimum: -1852848000000
Decimals: 0	Maximum: 1640908800000
Range: -1852848000000-1640908800000	Mean: 831434323031.7
	Standard deviation: 584603542719.1

Description

The date of birth of the individual

Date of beginning (datebeg)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2230488
Format: numeric	Invalid: 0
Width: 11	Minimum: -1852848000000
Decimals: 0	Maximum: 1640923200000
Range: -1852848000000-1640923200000	Mean: 1391724458859.6
	Standard deviation: 355780810425.8

Description

Date of beginning

(EventDate)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2230488
Format: numeric	Invalid: 0
Width: 11	Minimum: 1356998400000
Decimals: 0	Maximum: 1640995200000
Range: 1356998400000-1640995200000	Mean: 1526607748313.9
	Standard deviation: 93101181532.7

Description

The date on which the event occurred

Event occurred (EventCode)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2230488
Format: numeric	Invalid: 0
Width: 11	
Decimals: 0	
Range: 1-22	

Description

A code identifying the type of event that has occurred

1: ENU
 2: BTH
 3: IMG
 4: OMG
 7: DTH
 9: OBE
 18: OBS
 20: 1Jan

(residence)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2230488
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 0-1	

(residence)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Description

Indicates residency status in the site

0: not residence

1: resident

(education4)

File: MADIMAH_Kisumu_Migration_HumanCapital_v1

Overview

Type: Discrete

Format: numeric

Width: 19

Decimals: 0

Range: 0-9

Valid cases: 1259272

Invalid: 971216

Description

Education status in four categories

0: no formal education

1: primary

2: secondary

3: tertiary

9: DK

Nairobi (sitecode)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2027384
Format: character	Invalid: 0
Width: 5	

Description

Name of health and demographic surveillance centre at which the data was collected
 HDSS Site Code:
 ZA011: Agincourt
 KE021: Kisumu
 KE031: Nairobi
 BF021: Nanoro
 BF031: Nouna
 BF041: Ouagadougou

(IndividualIdAnonymised)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2027384
Format: character	Invalid: 0
Width: 6	

Description

A number uniquely identifying an individual in the dataset

(Sex)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2027384
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 1-2	

Description

Sex of the individual
 1: Male
 2: Female

Date of Birth (DoB)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2027384
Format: numeric	Invalid: 0
Width: 11	Minimum: -2508796800000
Decimals: 0	Maximum: 1640908800000
Range: -2508796800000-1640908800000	Mean: 712882916826
	Standard deviation: 428123145910.3

Description

The date of birth of the individual

Date of beginning (datebeg)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2027384
Format: numeric	Invalid: 0
Width: 11	Minimum: -2508796800000
Decimals: 0	Maximum: 1640908800000
Range: -2508796800000-1640908800000	Mean: 1464964704288.1
	Standard deviation: 253335003038.7

Description

Date of beginning

(EventDate)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 2027384
Format: numeric	Invalid: 0
Width: 11	Minimum: 1343779200000
Decimals: 0	Maximum: 1640995200000
Range: 1343779200000-1640995200000	Mean: 1537165215379.8
	Standard deviation: 85520820664.2

Description

The date on which the event occurred

(EventCode)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2027384
Format: numeric	Invalid: 0
Width: 11	
Decimals: 0	
Range: 1-22	

Description

A code identifying the type of event that has occurred

1: ENU
 2: BTH
 3: IMG
 4: OMG
 7: DTH
 9: OBE
 18: OBS
 20: 1Jan

(residence)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 2027384
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 0-1	

(residence)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Description

Indicates residency status in the site

0: not residence

1: resident

(education4)

File: MADIMAH_Nairobi_Migration_HumanCapital_v1

Overview

Type: Discrete

Format: numeric

Width: 19

Decimals: 0

Range: 0-9

Valid cases: 1225716

Invalid: 801668

Description

Education status in four categories

0: no formal education

1: primary

2: secondary

3: tertiary

9: DK

Nanoro (sitecode)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 306973
Format: character	Invalid: 0
Width: 5	

Description

Name of health and demographic surveillance centre at which the data was collected

HDSS Site Code:

ZA011: Agincourt

KE021: Kisumu

KE031: Nairobi

BF021: Nanoro

BF031: Nouna

BF041: Ouagadougou

(IndividualIdAnonymised)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 306973
Format: character	Invalid: 0
Width: 5	

Description

A number uniquely identifying an individual in the dataset

(Sex)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 306973
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-2	

Description

Sex of the individual

1: Male

2: Female

(DoB)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 306973
Format: numeric	Invalid: 0
Width: 11	Minimum: -1861833600000
Decimals: 0	Maximum: 1640908800000
Range: -1861833600000-1640908800000	Mean: 912445821400.6
	Standard deviation: 617489121805.9

Description

The date of birth of the individual

Date of beginning (datebeg)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 306973
Format: numeric	Invalid: 0
Width: 11	Minimum: -1861833600000
Decimals: 0	Maximum: 1640995228000
Range: -1861833600000-1640995228000	Mean: 1430712832735.8
	Standard deviation: 415124223140.2

Description

Date of beginning

(EventDate)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 306973
Format: numeric	Invalid: 0
Width: 11	Minimum: 1553083200000
Decimals: 0	Maximum: 1640995260000
Range: 1553083200000-1640995260000	Mean: 1600534043919.2
	Standard deviation: 32096557913.2

Description

The date on which the event occurred

Event occurred (EventCode)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 306973
Format: numeric	Invalid: 0
Width: 11	
Decimals: 0	
Range: 1-30	

Description

A code identifying the type of event that has occurred

1: ENU
 2: BTH
 3: IMG
 4: OMG
 7: DTH
 9: OBE
 18: OBS
 20: 1Jan

(residence)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 306973
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 0-1	

(residence)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Description

Indicates residency status in the site

0: not residence

1: resident

(education4)

File: MADIMAH_Nanoro_Migration_HumanCapital_v1

Overview

Type: Discrete

Format: numeric

Width: 19

Decimals: 0

Range: 0-9

Valid cases: 306973

Invalid: 0

Description

Education status in four categories

0: no formal education

1: primary

2: secondary

3: tertiary

9: DK

Nouna (sitecode)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 1591399
Format: character	Invalid: 0
Width: 5	

Description

Name of health and demographic surveillance centre at which the data was collected

HDSS Site Code:

ZA011: Agincourt

KE021: Kisumu

KE031: Nairobi

BF021: Nanoro

BF031: Nouna

BF041: Ouagadougou

(IndividualIdAnonymised)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 1591399
Format: character	Invalid: 0
Width: 6	

Description

A number uniquely identifying an individual in the dataset

(Sex)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 1591399
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-2	

Description

Sex of the individual

1: Male

2: Female

(DoB)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 1591399
Format: numeric	Invalid: 0
Width: 11	Minimum: -1871640000000
Decimals: 0	Maximum: 1640952000000
Range: -1871640000000-1640952000000	Mean: 746995080922.9
	Standard deviation: 607393869222.3

Description

The date of birth of the individual

Date of beginning (datebeg)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 1591399
Format: numeric	Invalid: 0
Width: 11	Minimum: -1871640000000
Decimals: 0	Maximum: 1640973600000
Range: -187164000000-1640973600000	Mean: 1327322404384.5
	Standard deviation: 305039537092.3

Description

Date of beginning

(EventDate)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 1591399
Format: numeric	Invalid: 0
Width: 11	Minimum: 1009886400000
Decimals: 0	Maximum: 1640995200000
Range: 1009886400000-1640995200000	Mean: 1418291850988.9
	Standard deviation: 174094252224.6

Description

The date on which the event occurred

Event occurred (EventCode)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 1591399
Format: numeric	Invalid: 0
Width: 11	
Decimals: 0	
Range: 1-22	

Description

A code identifying the type of event that has occurred

1: ENU
 2: BTH
 3: IMG
 4: OMG
 7: DTH
 9: OBE
 18: OBS
 20: 1Jan

(residence)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 1591399
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 0-1	

(residence)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Description

Indicates residency status in the site

0: not residence

1: resident

(education4)

File: MADIMAH_Nouna_Migration_HumanCapital_v1

Overview

Type: Discrete

Format: numeric

Width: 19

Decimals: 0

Range: 0-9

Valid cases: 1591399

Invalid: 0

Description

Education status in four categories

0: no formal education

1: primary

2: secondary

3: tertiary

9: DK

Ouagadougou (sitecode)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 456932
Format: character	Invalid: 0
Width: 5	

Description

Name of health and demographic surveillance centre at which the data was collected

HDSS Site Code:

ZA011: Agincourt

KE021: Kisumu

KE031: Nairobi

BF021: Nanoro

BF031: Nouna

BF041: Ouagadougou

(IndividualIdAnonymised)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 456932
Format: character	Invalid: 0
Width: 6	

Description

A number uniquely identifying an individual in the dataset

(Sex)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 456932
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-2	

Description

Sex of the individual

1: Male

2: Female

(DoB)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 456932
Format: numeric	Invalid: 0
Width: 11	Minimum: -1877817600000
Decimals: 0	Maximum: 1657756800000
Range: -1877817600000-1657756800000	Mean: 904053282963.8
	Standard deviation: 516093076571.9

Description

The date of birth of the individual

Date of beginning (datebeg)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 456932
Format: numeric	Invalid: 0
Width: 11	Minimum: -1877817600000
Decimals: 0	Maximum: 1657756800000
Range: -1877817600000-1657756800000	Mean: 1424697034283.8
	Standard deviation: 378721059021.6

Description

Date of beginning

(EventDate)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Continuous	Valid cases: 456932
Format: numeric	Invalid: 0
Width: 11	Minimum: 1474804800000
Decimals: 0	Maximum: 1640995200000
Range: 1474804800000-1640995200000	Mean: 1596397645469.7
	Standard deviation: 34787055284

Description

The date on which the event occurred

Event occurred (EventCode)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 456932
Format: numeric	Invalid: 0
Width: 15	
Decimals: 0	
Range: 1-22	

Description

A code identifying the type of event that has occurred

1: ENU
 2: BTH
 3: IMG
 4: OMG
 7: DTH
 9: OBE
 18: OBS
 20: 1Jan

(residence)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Discrete	Valid cases: 456932
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 0-1	

(residence)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Description

Indicates residency status in the site

0: not residence

1: resident

(education4)

File: MADIMAH_Ouaga_Migration_HumanCapital_v1

Overview

Type: Discrete

Format: numeric

Width: 19

Decimals: 0

Range: 0-9

Valid cases: 456932

Invalid: 0

Description

Education status in four categories

0: no formal education

1: primary

2: secondary

3: tertiary

9: DK

