

Africa Centre Demographic Information System (ACDIS)

Analytical Dataset Documentation

Change History

<u>Who</u>	<u>When</u>	<u>What</u>
Colin Newell	12 May 2006	Original
Colin Newell	4 July 2006	Removed now-obsolete Validity/VNotes columns
Colin Newell	2 Aug 2007	Added BSR/BSU form images Removed <i>IsTagFixed</i> (operational importance only) and added several lookup names
Colin Newell	7 July 2008	Added <i>IsUrbanOrRural</i>
Colin Newell	22 July 2008	Added <i>NearestClinic</i> and <i>KmToNearestClinic</i>
Colin Newell	31 July 2008	Added nearest primary and secondary schools and distances thereto. Removed the two VP precision dates
Colin Newell	19 January 2009	Added distances to Level 1 and 2 roads Removed BS Type as it is constant 'B' now that dummy BSIntIds 999995/7/9 are excluded

Dataset name	BoundedStructures
Description	<p>Bounded Structures are physical units that can be directly observed in the field (even in the absence of any informant). They are either a single building, or a clustered group of buildings, owned by a single owner and located on an identifiable plot of land (e.g. a designated stand in urban areas, or a fenced estate in rural areas). They can be represented by a point in a Geographical Information System. Most Bounded Structures are Homesteads i.e. residential, but others can be schools, clinics, shops, churches etc Another dataset – <i>BSTypeEpisodes</i> details these characteristics and any changes in them. Bounded Structures can also be under construction, usable or broken down. This characteristic is detailed in dataset <i>BSStateEpisodes</i>. Latitude and Longitude is available for every Bounded Structure, but is not included in this dataset</p> <p>Bounded Structures have both an internal identifier – BSIntId – used in the database and dataset, and also a BSID which is used in the field, on printed questionnaires, and all operational activities.</p> <p>When first registered the four-page BSR form shown below is administered, while the BSU form, also shown, is administered to every Bounded Structure in Every DS Round.</p>
Rows/Units of analysis	Each row is one Bounded Structure.
Unique identifier(s)	BSIntId
Approx. number of rows	14,500



For Mapping use only

Visit ref. #

GPS Co-ordinates taken?

BSID

Weekblock -

For GIS use only

Type A Weekblock -

Type B Weekblock -

Section 1. Visits to the Bounded Structure

Visit Ref.#	1. Date of Visit	2. Visit Type	3. Staff member ID	4. Supervised?	5. Comments & appointments
V1	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
V2	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
V3	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
V4	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	
V5	<input type="text"/>	<input type="text"/>	<input type="text"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	

Section 2. BS Identification Details

Informant

Visit ref. #

A Owner

Household Head B

Household Member B

Mbr of other HH at BS B or C

Neighbour B or C

Facilities only: Staff Member B or C

Other B or C

No informant

B Temp ID or DSID

C Details

1. *Current* BS Owner
Surname, Firstname

2. Physical Address
Street and number, or name of BS

3. When did building of the BS start?

4. ISIGODI Other
(Specify Isigodi)

5. LOCAL AREA Other
(Specify Local)

6. NEAREST BSID

Section 3. Diagram of BS boundary and buildings

Draw a diagram of the BS boundary and all its buildings.
 For each group of buildings record the buildings belonging to each household.
 Be sure to also record tenant blocks, teachers cottages, empty building etc.

Section 4. BS Type and State

		Current Type	Previous Type			Current State	Previous State
1. What is the "current" type of BS? <small>i.e. intended main purpose: residency, health, education etc.</small>	Homestead	<input type="checkbox"/>	<input type="checkbox"/>				
	Primary School	<input type="checkbox"/>	<input type="checkbox"/>				
	Secondary School	<input type="checkbox"/>	<input type="checkbox"/>				
	Fixed Clinic	<input type="checkbox"/>	<input type="checkbox"/>				
	Shop	<input type="checkbox"/>	<input type="checkbox"/>				
	Church	<input type="checkbox"/>	<input type="checkbox"/>				
	Workshop	<input type="checkbox"/>	<input type="checkbox"/>				
	Bar, restaurant	<input type="checkbox"/>	<input type="checkbox"/>				
	Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>				
	(Specify)	_____					
2. Has this type changed in the last 6 months? Yes <input type="checkbox"/> → Y Y Y Y M M D D No <input type="checkbox"/>							
		Current BS Type Previous BS Type _____ _____					
				3. What is the "current" state of BS?		<input type="checkbox"/>	<input type="checkbox"/>
				Under Construction		<input type="checkbox"/>	<input type="checkbox"/>
				Usable		<input type="checkbox"/>	<input type="checkbox"/>
				Broken down		<input type="checkbox"/>	<input type="checkbox"/>
				4. Has this state changed in the last 6 months? Yes <input type="checkbox"/> → Y Y Y Y M M D D No <input type="checkbox"/>			
				5. Is this BS "currently" functional? Yes <input type="checkbox"/> No <input type="checkbox"/>			
				<small>Examples: A functional homestead has Resident Households A functional Clinic provides health care</small>			

Section 5. Households at Bounded Structure

Questionnaire ID: 44868234

- (i) How many households are currently resident at this BS? Households
- BSID (ii) How many other households have been resident at this BS over the last 6 months but have since ended or outmigrated?

RECORD ALL HOUSEHOLDS WHICH HAVE BEEN RESIDENT AT THIS BS SINCE THE 1ST JANUARY 2000. INCLUDE HOUSEHOLDS THAT HAVE ENDED OR OUT-MIGRATED

Household ID **AA** Head of Household TempID / DSID
Surname, Firstname

Informant Visit Ref. #

Household Head
 Household Member → B
 Mbr of other HH at BS → B +/or C
 Neighbour → B +/or C
 Other → C

B TempID or DSID

C DETAILS

2a. Is this household "currently" resident at this BS?
 Yes → Q3
 No → 2b. When did this household end its residency at this BS?
 Y Y Y Y M M D D

2c. Where did the household move to?
 Household has ended
 Migrated within the DSA → EVN
 Migrated outside the DSA

3. IS THIS HOUSEHOLD ELIGIBLE FOR REGISTRATION?
 Yes
 No
 DK → Give details: _____

1a. When did this household become resident at the BS?
 Y Y Y Y M M D D

1b. Where did this household come from?
 Household newly formed → Register HH
 Migrated from within the DSA → Complete HHR, MGN, IDR of HoH
 Migrated from outside the DSA

1c. Has the household ever been resident in the DSA since 1 Jan 2000?
 Yes → Complete HHR, MGN, IDR of HHH
 No → Register HH & MGN

Household ID **AB** Head of Household TempID / DSID
Surname, Firstname

Informant Visit Ref. #

Household Head
 Household Member → B
 Mbr of other HH at BS → B +/or C
 Neighbour → B +/or C
 Other → C

B TempID or DSID

C DETAILS

2a. Is this household "currently" resident at this BS?
 Yes → Q3
 No → 2b. When did this household end its residency at this BS?
 Y Y Y Y M M D D

2c. Where did the household move to?
 Household has ended
 Migrated within the DSA → EVN
 Migrated outside the DSA

3. IS THIS HOUSEHOLD ELIGIBLE FOR REGISTRATION?
 Yes
 No
 DK → Give details: _____

1a. When did this household become resident at the BS?
 Y Y Y Y M M D D

1b. Where did this household come from?
 Household newly formed → Register HH
 Migrated from within the DSA → Complete HHR, MGN, IDR of HoH
 Migrated from outside the DSA

1c. Has the household ever been resident in the DSA since 1 Jan 2000?
 Yes → Complete HHR, MGN, IDR of HHH
 No → Register HH & MGN

BoundedStructures Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
BSIntId	Unique Id of Bounded Structure	<i>BoundedStructures.IntId</i>	Integer from 1 to approx 15500	The three 99999x entries are now excluded from dataset
BSSStartDate	Date bounded structure started (??)	The start date of the event i.e. <i>Events.AssignedDate</i> of the event linked to <i>RegisteredPointLocations.StartEvent</i>	Date format	Most dates are 1 Jan 2000 i.e. DSS Start, with a few (esp.Ndlovu village) more recent. None are missing or before 1 Jan 2000
BSSStartType	BS Start Type	The Type of the Event (i.e. <i>Events.Type</i>) linked to the to <i>RegisteredPointLocations.StartEvent</i>	BSC BS State Change (?) CON Start of Construction DFT Default DSS DS Start NAD Not applicable	97% are "DSS"
BSSStartTypeName	BS Start Type label	<i>EventTypes.Name</i> of the BS Start Type.	String label associated with code in previous variable	
BSEndDate	BS End date	The end date of the event i.e. <i>Events.AssignedDate</i> of the event linked to <i>RegisteredPointLocations.EndEvent</i>	Date, Plus a few missing values as 1 Jan 1793 (Refused) 1 Jan 1798 (Don't Know) 1 Jan 1799 (Missing)	
BSEndType	BS End Type	The Type of the Event (i.e. <i>Events.Type</i>) linked to the to <i>RegisteredPointLocations.EndEvent</i>	VIS Visit DFT Default NAD Not Applicable Full names in next variable	99.93% are "VIS"
BSEndTypeName	BS End Type label	<i>EventTypes.Name</i> of the BS End Type.	Text label associated with code in previous variable	
Isigodi	Isigodi	<i>BoundedStructures.Isigodi</i>	Three-letter code. Associated name is in next variable	Isigodi are traditional administrative units

BoundedStructures Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
IsigodiName	Isigodi name	<i>Isigodis.Name</i> associated with code in previous variable	Text label associated with previous variable	
LocalArea	Commonly-used name of local area	<i>BoundedStructures.LocalArea</i>	Three-letter code. The associated label is in next variable	Commonly-used names not necessarily official units
LocalAreaName	Local area name	<i>LocalAreas.Name</i> associated with code in previous variable	Text label associated with previous variable	
IsUrbalOrRural	Is urban or rural	<i>RegisteredPointLocations.IsUrbanOrRural</i>	URB – Urban RUR – Rural PER – Peri-urban	Rural is defined as population density below 400 per km ² Peri-urban means over 400 per km ² Urban is defined as kwaMsane Municipality.
IsUrbanOrRuralName	Label attached to previous variable	<i>UrbanRuralLookups /Name</i>	Text string	
NearestClinic	Name of nearest Primary health care clinic	<i>RegisteredPointLocations. NearestClinic</i>	Text String e.g. "KWAMSANE"	
KmToNearestClinic	Straight-line distance to clinic named in previous variable	<i>RegisteredPointLocations. KmToNearestClinic</i>	Decimal distance to 2dp e.g. 2.56	
NearestSecondarySchool	Name of nearest Secondary School	<i>RegisteredPointLocations. NearestSecondarySchool</i>	Text String e.g. "MFOLOZI"	
KmToNearestSecondarySchool	Straight-line distance to secondary school named in previous variable	<i>RegisteredPointLocations. KmToNearestSecondarySchool</i>	Decimal distance to 2dp e.g. 2.56	

BoundedStructures Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
NearestPrimarySchool	Name of nearest Primary School	<i>RegisteredPointLocations. NearestPrimarySchool</i>	Text String e.g. "MNOTHO"	
KmToNearestPrimarySchool	Straight-line distance to Primary school named in previous variable	<i>RegisteredPointLocations. KmToNearestPrimarySchool</i>	Decimal distance to 2dp e.g. 2.56	
KmToNearestLevel1Road	Distance to nearest Level 1 road	<i>RegisteredPointLocations. KmToNearestLevel1Road</i>	Decimal distance Km e.g. 1.23	
KmToNearestLevel2Road	Distance to nearest Level 2 road	<i>RegisteredPointLocations. KmToNearestLevel2Road</i>	Decimal distance Km e.g. 1.23	

SQL

```
/*
<Author>Colin Newell</Author>
<Date>12 May 2006</Date>
<Category>Dataset</Category>
<Notes>
Requested by: Core dataset

Request: To produce a _BoundedStructures analytical dataset
        The dataset will contain one record for each Bounded Structure
</Notes>
<ChangeHistory>
C Newell  12 May 2006   Original coding

C Newell   4 July 2006   Removed now-obsolete columns Validity and VNotes

C Newell  31 Oct  2006   Turned dates from Text to date (ie. no conversion)

C Newell   2 Feb 2007   Added isigodi and Local Area

C Newell   2 Aug 2007   Removed IsTagFixed, added several lookup names

C Newell   7 Jul 2008   Added Rural/Urban

C Newell  22 Jul 2008   Added nearest Clinic and distance thereto.

C Newell  31 Jul 2008   Added nearest Primary and secondary schools and distance thereto.

C Newell  19 Jan 2009   Added distances to roads

C Newell  19 Jan 2009   Excluded three 'dummy' BS (999995/7/8)

</ChangeHistory>
*/
ALTER VIEW _BoundedStructures
AS
SELECT
    bs.IntID AS BSIntId,
    rpl.Type AS BSType,
```

```

rt.name AS BSTypeName,           -- added 2aug07
se.AssignedDate AS BSStartDate,
se.Type AS BSStartType,
setp.[Name] AS BSStartTypeName,  -- added 2aug07
ee.AssignedDate AS BSEndDate,
ee.Type AS BSEndType,
eetp.[Name] AS BSEndTypeName,    -- added 2aug07
bs.Isigodi,
i.Name AS IsigodiName,
bs.LocalArea,
la.Name AS LocalAreaName,
rpl.IsUrbanOrRural,
url.Name AS IsUrbanOrRuralName,
rpl.NearestClinic,
CAST(rpl.KmToNearestClinic AS decimal(4,2)) AS KmToNearestClinic,
rpl.NearestSecondarySchool,
CAST(rpl.KmToNearestSecondarySchool AS decimal(4,2)) AS KmToNearestSecondarySchool,
rpl.NearestPrimarySchool,
CAST(rpl.KmToNearestPrimarySchool AS decimal(4,2)) AS KmToNearestPrimarySchool,
CAST(rpl.KmToNearestLevel1Road AS decimal(4,2)) AS KmToNearestLevel1Road, -- new 19jan09
CAST(rpl.KmToNearestLevel2Road AS decimal(4,2)) AS KmToNearestLevel2Road -- New 19jan09
FROM BoundedStructures bs
LEFT JOIN RegisteredPointLocations rpl ON bs.IntID = rpl.IntID
LEFT JOIN RPLTypes rt ON rt.Code = rpl.Type
LEFT JOIN Events se ON se.IntID = rpl.StartEvent
LEFT JOIN EventTypes setp ON se.Type = setp.Code
LEFT JOIN Events ee ON ee.IntID = rpl.EndEvent
LEFT JOIN EventTypes eetp ON ee.Type = eetp.Code
LEFT JOIN Isigodis i ON bs.Isigodi = i.Code
LEFT JOIN LocalAreas la ON bs.LocalArea = la.Code
LEFT JOIN UrbanRuralLookups url ON rpl.IsUrbanOrRural = url.Code
WHERE bs.IntID < 999990 -- new cn jan09 exclude three

```