

## Africa Centre Demographic Information System (ACDIS)

### Analytical Dataset Documentation

#### Change History

<u>Who</u>	<u>When</u>	<u>What</u>
Colin Newell	25 May 2006	Original
Colin Newell	2 August 2007	Enhanced description, added several new variables, all labels
Colin Newell	29 August 2008	Removed the two VP Date precision variables.

<b>Dataset name</b>	BSTypes
<b>Description</b>	<p>Describes the Types of Bounded Structures and their changes over time. Most are 'Homesteads, but there are also shops, churches, schools, clinics etc.</p> <p>Most BS only have one such episode because their Type has never changed since DS Start (or construction), but when there has been a change there will be two or more. In principle the first BS Type for a BS will always have a Start date identical to that of the parent BS. Equally the last BS Type will have an identical End date. Where there are 2+ Types for one BS then the episodes should never overlap, nor should there be any gaps. Any deviations from these principles are dirty data.</p>
<b>Rows/Units of analysis</b>	One row per BS Type Episode..
<b>Unique identifier(s)</b>	BSTId
<b>Approx. number of rows</b>	Approx 15,000 at time of writing

Postal: PO Box 198, Mtubatuba 3935, South Africa  
 Physical: Africa Centre, R618 en route to Hlabisa, Somkhele  
 Tel.: +27 (0)35 550 7500  
 Fax: +27 (0)35 550 7565  
 Email: [info@afriacentre.ac.za](mailto:info@afriacentre.ac.za)  
 Web: [www.afriacentre.com](http://www.afriacentre.com)

BS Type information is collected on forms “BSR” Bounded Structure Registration and “BSU” Bounded Structure Update. Images of these forms are included in the Bounded Structures dataset documentation.

### BSTypes Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
BSTId	Unique Id of BS Type episode	<i>BSTypeEpisodes.IntId</i>	Integer 1 – 16,500+	Meaningless unique key.
BSIntId	Id of Bounded Structure	<i>BSTypeEpisodes.BoundedStructure</i>	Integer 1 – 16,225 No blanks or missings	Can be used to link to BoundedStructures dataset
BSType	Typee of BS	<i>BSTypeEpisodes.Type</i>	Three-letter code. See list of BS Types in ACDIS Codebook. Examples are HMS Homestead PMS Primary School CRC Church SHP Shop No blanks/missings	Approx 96% are 'Homestead'
BSTypeName	Name of BS Type i.e. label associated with code in previous variable	BSTypes.Name associated with <i>BSTypeEpisodes.Typee</i>	Text string	
BSSStartDate	Start date of episode	The Date of the Event (i.e. <i>Events.AssignedDate</i> ) linked to the to <i>BSTypeEpisodes.StartEvent</i>	General date Range is Jan 2000 to present, plus a few missing values as 1 Jan 1798 (Don't Know) 1 Jan 1799 (Missing) No blanks	99.5% have 2000-01-01 i.e. DSS start

## BSTypes Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
BSSStartType	Type of Start Event	The Type of the Event (i.e. <i>Events.Type</i> ) linked to the to <i>BSTypeEpisodes.StartEvent</i>	Three-letter code. See next variable for labels. One of DSS DS Start BTC BS Type change CON Construction DFT _Default  No blanks	97.5% DS Start
BSSStartTypeName	Name of BSS Start Type i.e. label associated with code in previous variable	<i>EventTypes.Name</i> associated with <i>BSTypeEpisodes.StartEvent</i>	Text string	
BSSEndDate	End date of the episode	The Date of the Event (i.e. <i>Events.AssignedDate</i> ) linked to the to <i>BSTypeEpisodes.EndEvent</i>	General date. Range is 1997 to present, plus a few missing values as 1 Jan 1795 (Default) 1 Jan 1797 (Not Applic.) 1 Jan 1798 (Don't Know) 1 Jan 1799 (Missing)	
BSEndType	Type of End Event	The Type of the Event (i.e. <i>Events.Type</i> ) linked to the to <i>BSTypeEpisodes.EndEvent</i>	Three-letter code. See next variable for labels. Mainly BTC BS Type change DFT Default VIS Visit	98% VISit
BSEndTypeName	Name of BSS End Type i.e. label associated with code in previous variable	<i>EventTypes.Name</i> associated with <i>BSTypeEpisodes.EndEvent</i>	Text string	

## SQL

```
/*
<Author>Colin Newell</Author>
<Date>25 May 2006</Date>
<Category>Dataset</Category>
<Notes>
Requested by: Core dataset

Request: To produce a _BSTypes analytical dataset
        The dataset should contain one record for each Bounded Structure Type Episode
</Notes>
<ChangeHistory>
C Newell  25 may 2006  Original coding

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

C Newell   2 Aug 2007  Added several label variables e.g. BSStateName

C Newell  29 Aug 2008  Removed the two VP prcision dates

</ChangeHistory>
*/
alter VIEW _BSTypes
AS
SELECT
  bste.IntID AS BSTID,
  bste.BoundedStructure AS BSIntId,
  bste.Type AS BSType,
  bst.Name as BSTypeName,           -- added 2aug07
  se.AssignedDate AS BSTStartDate,
  se.Type AS BSTStartType,
  setp.[Name] AS BSSStartTypeName, -- added 2aug07
  ee.AssignedDate AS BSTEndDate,
  ee.Type AS BSTEndType,
  eetp.[Name] AS BSSEndTypeName    -- added 2aug07
FROM BSTypeEpisodes bste
  LEFT JOIN Events se ON se.IntID = bste.StartEvent
  LEFT JOIN Events ee ON ee.IntID = bste.EndEvent
  LEFT JOIN BSTypes bst ON bste.Type = bst.Code
```

```
LEFT JOIN EventTypes setp ON se.Type = setp.Code  
LEFT JOIN EventTypes eetp ON ee.Type = eetp.Code
```