

Final draft of record layout and dictionary for mortality and causes of death data file, 1996

<u>Field Name</u>	<u>Format</u>	<u>Length</u>	<u>Position</u>
1. Series Number	Character	4	1-4
2. Batch Number	Character	5	5-9
3. Province of Residence	Character	2	10-11
4. Place of Residence	Character	8	12-19
5. Province of Death	Character	2	20-21
6. Place of death	Character	8	22-29
7. Processing Year	Character	4	30-33
8. Processing Month	Character	2	34-35
9. Sequence Number	Character	3	36-38
10. Birth Day	Numeric	2	39-40
11. Birth Month	Numeric	2	41-42
12. Birth Year	Numeric	4	43-46
13. Death Day	Numeric	2	47-48
14. Death Month	Numeric	2	49-50
15. Death Year	Numeric	4	51-54
16. AgeYears	Numeric	3	55-57
17. AgeMonths	Numeric	2	58-59
18. AgeDays	Numeric	2	60-61
19. Gender	Numeric	1	62-62
20. Population Group*	Numeric	1	63-63
21. Marital Status	Numeric	1	64-64
22. Occupation	Character	4	65-68
23. Cause of Death (ICD-9)	Character	3	69-71
24. Nature of Injury (ICD-9)	Character	3	72-74
25. Death Certificate	Numeric	1	75-75
26. Institution	Numeric	1	76-76
27. Cause of Death (ICD-10)	Character	3	77-79
28. Nature of Injury (ICD-10)	Character	3	80-82
29. Registration Year	Numeric	4	83-86

Key:

* Currently not used

Description of Variables

1. *Series Number* This is a Stats SA code that identifies the series being processed. The series number for the mortality data set is 0309.
2. *Batch/Bundle Number* A unique number allocated to each batch of forms. Number of the physical batch that contains the source document. The number is written at Stats SA for administrative purpose. In the 1996 data set, the batch numbers range from 1 to 3880.
3. *Province of Residence* This is the province of usual residence of the deceased. The codes allocated to the provinces are as follows:
 - 01 - Western Cape
 - 02 - Eastern Cape
 - 03 - Northern Cape
 - 04 - Free State
 - 05 - KwaZulu-Natal
 - 06 - North West
 - 07 - Gauteng
 - 08 - Mpumalanga
 - 09 - Northern Province
 - 98 - Foreign
 - 99 - Unspecified
4. *Place of Residence* This is the place of usual residence of the deceased. This is a seven-digit code. The first two represent the statistical region, the third and fourth indicate the magisterial/census district within the statistical region. The fifth and sixth indicate the city or town or non-urban area within the magisterial/census district and the seventh digit is a check digit. The detailed code list for all the districts in the RSA can be found in the following publication: *Standard Code List of Areas* (Twelfth edition), CSS Report No. 09-09-03 (1994).
 In addition, the following codes were used:
 - Unspecified - 0000000
 - Foreign - 9999990
5. *Province of Death* This is the province of death of the deceased. The provinces are coded as follows:
 - 01 - Western Cape
 - 02 - Eastern Cape
 - 03 - Northern Cape
 - 04 - Free State
 - 05 - KwaZulu-Natal
 - 06 - North West
 - 07 - Gauteng
 - 08 - Mpumalanga
 - 09 - Northern Province
 - 98 - Foreign

6. <i>Place of Death</i>	<p>This is the place in which the death occurred. The complete code consists of seven digits: the first two represent the statistical region, the third and fourth indicate the magisterial /census district within the statistical region, the fifth and sixth indicate the city or town or non-urban area within the magisterial/census district and the seventh digit is a check digit. The detailed code list for all the districts in the RSA can be found in the following publication: <i>Standard Code List of Areas (Twelfth edition)</i>, CSS Report No. 09-09-03 (1994). In addition, the following code was used:</p> <p>Unspecified - 0000000 Foreign - 9999990</p>
7. <i>Processing Year</i>	This is a four-digit code that represents the year for which the death registration form was captured at Stats SA.
8. <i>Processing Month</i>	This refers to the month in which the forms were received from the Department of Home Affairs. The months are numbered consecutively from 01 to 12 with January coded as 01 and December coded as 12. Forms that come after December are all added to the December process month until the decision is made to close for that registration year.
9. <i>Sequence Number</i>	The sequence number of the each record/form within a batch. This number is automatically generated by the program during data capture and is used for administrative purposes. In the 1996 data set, the numbers ranged from 1 to 340.
10. <i>Birth Day</i>	Day of birth of the deceased.
11. <i>Birth Month</i>	Month of birth of the deceased. The months are numbered consecutively from 01 to 12 with January coded as 01 and December coded as 12.
12. <i>Birth Year</i>	Year of birth of the deceased expressed as a four-digit figure. For example, 1994, 1995, etc.
13. <i>Death Day</i>	Day of death of deceased. The numbers range from 1 to 31.
14. <i>Death Month</i>	Month of death of the deceased. The months are numbered consecutively from 01 to 12 with January coded as 01 and December coded as 12.
15. <i>Death Year</i>	Year of death of the deceased expressed as a four-digit-figure. For example, 1994, 1995, etc.

<i>16. Age in days</i>	Age of the deceased at death. Depending on the number of days in that month, the valid values for this field is always one day short of that total number of days within that month. For example, January has 31 days; the valid values for age in days for January can only be 01-30 days.
<i>17. Age in months</i>	Age of the deceased at death in months. Age in months can be 01-11.
<i>18. Age in years</i>	Age of the deceased at death (in years). Age ranges from 1 to 130. Note Age is a derived variable. It is calculated in completed years for those aged more than 11 months and older, in completed months for those older 30 days but less than 12 months, in completed days for those aged less than one month but older than 23 hours and in hours for those less than 24 hours.
<i>19. Gender</i>	The sex of the deceased 1 - Male 2 – Female 3 - Unspecified
<i>20. Population Group*</i>	Population group of the deceased. As this variable is not currently used, only ‘9’ has been placed in this field.
<i>21. Marital Status</i>	The marital status of the deceased at time of death. 1 - Never married 2 - Married 3 - Living as married 4 - Widow/Widower 5 – Married by Religious Law 6 - Divorced 7 – Married by Customary Law 9 - Unspecified

22. Occupation

Usual occupation of the deceased at time of death. The coding is based on the 1968 International Standard Classification of Occupations (ISCO). Also published by the CSS under the title, Standard Classification of Occupation, No. 09-90-01. The ISCO codes are grouped into the following major categories:

<u>Occupation Group</u>	<u>ISCO Code</u>
Professional, semi-professional and technical occupations	001-127
Managerial, executive and administrative occupations	128-131
Clerical and sales occupations	132-133
Transport, delivery and communications occupations	134-137
Service occupations	138-144
Farming and related occupations	145-147
Artisan, apprentice and related occupations	148-151
Mining and quarrying occupations, production foremen and supervisors, operators, production and related occupations	152-155
Occupation unspecified and not elsewhere classified	156-159
Worker not economically active	160-165

23. Cause of Death (ICD-9)

This is the cause of death for the deceased. The coding is based on the ninth version of the International Classification of Disease (ICD- 9) as published in *Manual of the International Classification of Diseases, Injuries and Causes of Death*. An abridged version is also published by the CSS under the title, *Statistical Classification of Diseases, Injuries and Causes of Death (No. 07-03-15)*. The ICD-9 codes are grouped into the following major categories:

<u>ICD-9 Chapter</u>	<u>ICD-9 Codes</u>
Infectious and parasitic diseases	001-139
Neoplasm	140-208, 210-239
Endocrine, nutritional and metabolic diseases and immunity disorders	209, 240-279
Diseases of the blood and blood forming organs	280-289
Mental disorders	290-319, 327
Diseases of the nervous system and sense organs	320-326, 328-389
Diseases of the circulatory system	390-459
Diseases of the respiratory system	460-519
Diseases of the digestive system	520-579, 609
Diseases of the genito-urinary system	580-608,

Complications of pregnancy, childbirth 630-676 and the puerperium	610-629
Diseases of the skin and subcutaneous tissue	680-698, 700-709
Diseases of the musculoskeletal system and connective tissue	710-739
Congenital anomalies	740-759
Certain conditions originating in the perinatal period	760-779
Symptoms, signs and ill-defined conditions	699, 780-799
Accidents, poisoning and violence (external causes)	800-988

24. *Nature of Injury (ICD-9)*

used:

Refers to the nature of the external cause of death. The following codes (based on ICD-9 groupings) are

<u>Code</u>	<u>Type of Injury</u>	<u>ICD9 group</u>
001	Fracture of the skull	800-804
002	Fracture of the spine and trunk	805-809
003	Fracture of the limbs	810-829
004	Dislocation	830-839
005	Sprains and strains of joints and adjacent muscles	840-848
006	Intracranial injury, excluding those with skull fracture	850-854
007	Internal injury of chest, abdomen and pelvis	860-869
008	Laceration and open wound	870-897
009	Injury to blood vessel	900-904
010	Late effects of injuries, poisonings, toxic effects and other external causes	905-909
011	Superficial injury, contusion and crushing with intact skin surface	910-929
012	Foreign body entering through orifice	930-939
013	Burns	940-949
014	Adverse effect of chemical substances	960-989
015	All other and unspecified effects of external causes	950-959 & 990-999
016	Unspecified	
111	Applicable if there was no injury (i.e. for natural causes)	

25. Cause of Death (ICD10)

The disease or injury that initiated the events that resulted in death. This variable is coded according to ICD-10. The ICD10 chapters are given electronically in the CD. A hard copy of the abridged manual is also available from the Stats SA offices.

<u>ICD-10 Chapter</u>	<u>ICD-10 Code</u>
Infectious and parasitic diseases	A00-B99
Neoplasms	C00-D48
Diseases of the blood and D50-D89 blood-forming organs and certain disorders involving the immune mechanism	
Endocrine, nutritional and metabolic diseases	E00-E90
Mental and behavioural disorders F00-F99	
Diseases of the nervous system	G00-G99
Diseases of the ear and mastoid process H60-H95*	
Diseases of the circulatory system I00-I99	
Diseases of the respiratory system J00-J99	
Diseases of the digestive system	K00-K93
Diseases of the skin and subcutaneous tissue	L00-L99
Diseases of the musculoskeletal system M00-M99 and connective tissue	
Diseases of the genito-urinary system	N00-N99
Complications of pregnancy, childbirth O00-O99 and the puerperium	
Certain conditions P00-P96 originating in the perinatal period	
Congenital malformations, deformations Q00-Q99 and chromosomal abnormalities	
Symptoms, signs and abnormal , R00-R99 clinical and laboratory findings, not elsewhere classified	
External causes of morbidity and mortality	V01-Y98

* This is
a new
chapter
introduce

d in
ICD-10

26. Nature of Injury (ICD10)

The Injury Associated with the underlying cause of death. The code have been derived from ICD10 codes by the data capture team as follows:

<u>Code</u>	<u>Type of Injury</u>	<u>ICD10 group</u>
001	Injuries to the head	S00-S09
002	Injuries to the neck	S10-S19
003	Injuries to the thorax	S20-S29
004	Injuries to the abdomen Lower back, lumbar spine and pelvis	S30-S39
005	Injuries to the shoulder and upper arm.	S40-S49
006	Injuries to the elbow and forearm	S50-S59
007	Injuries to the wrist and hand	S60-S69
008	Injuries to the hip and thigh	S70-S79
009	Injuries to the knee and lower leg	S80-S89
010	Injuries to the ankle and foot	S90-S99
011	Injuries involving multiple body regions	T00-T07
012	Injuries to unspecified parts of the trunk, limb or body region	T08-T14
013	Effects of foreign body entering through natural orifice	T15-T19
014	Burns and corrosions	T20-T32
015	Frostbite	T33-T35
016	Poisoning by drugs, medicaments and biological substance	T36-T50
017	Toxic effects of substances chiefly non-medicinal as to source	T51-T65
018	Other unspecified effects of external causes	T66-T78
019	Certain early complications of trauma	T79
020	Complications of surgical and medical care, not elsewhere classified	T80-T88
021	Sequelae of injuries, of poisoning and of other consequences of external causes	T90-T98
111	(applicable if there was no injury)	

27. Death Certificate

This refers to whether the death was certified by a Doctor or not.
1 - Doctor

2 – Other

28. *Institution* This refers to the place of death
1 - Hospital/ Clinic/ Maternity home
2 - Not in hospital
29. *Registration year* Refers to the year in which the death was reported or registered at the Department of Home Affairs

Other variables that are not part of the data set but can be derived from the placename code

1. *Type of residence* The type of residence describes whether the deceased resided in urban or non-urban residence. A deceased resident is defined as urban if the digit number 5 and 6 of the placename code are '99'. The user should be careful not to include foreign magisterial districts as urban districts. The code for foreign districts should be specified as excluded from the type of residence variable '9999990'. When extracting the cases for non-urban the code for foreign should be explicitly excluded. It is also important to take out the unspecified deaths coded '0000000'. The exclusion of foreign and unspecified districts should be done first before the data is separated into urban and non-urban.
2. *Magisterial district of Residence* This is the magisterial district of usual place of residence of the deceased. The magisterial district code is derived from the placename code by taking the first 4 digits. The full set of magisterial codes is provided electronically.