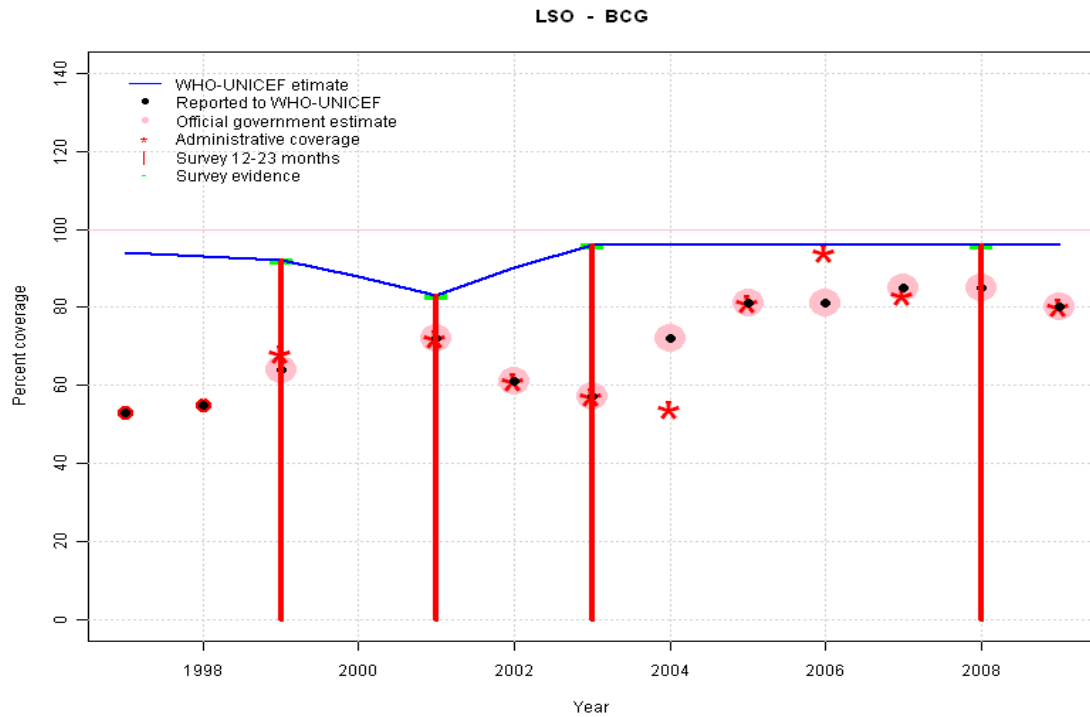


Lesotho - BCG



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	94	93	92	88	83	90	96	96	96	96	96	96	96
Reported	53	55	64	NA	72	61	57	72	81	81	85	85	80
Official	NA	NA	64	NA	72	61	57	72	81	81	85	85	80
Administrative	NA	NA	68	NA	72	61	57	54	81	94	83	NA	80
Survey	NA	NA	92	NA	83	NA	96	NA	NA	NA	NA	96	NA

Description:

1997: Legacy estimate.

1998: Estimate interpolated between 1997 and 1999 estimates.

1999: Estimate based on survey results. Reported data (64 percent) not consistent with survey results (92 percent).

2000: Reported data (63 percent) calibrated to 1999 and 2001 levels. Missing or ignored reported value estimated by interpolation between reported values of 64 percent in 1999 and 61 percent in 2002.

2001: Estimate based on survey results. Reported data (62 percent) not consistent with survey results (83 percent). 2001 reported data (72 percent) ignored by working group. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2002: Estimate interpolated between 2001 and 2003 estimates.

2003: Estimate based on survey results. Reported data (57 percent) not consistent with survey results (96 percent).

2004: Estimate interpolated between 2003 and 2008 estimates.

2005: Estimate interpolated between 2003 and 2008 estimates.

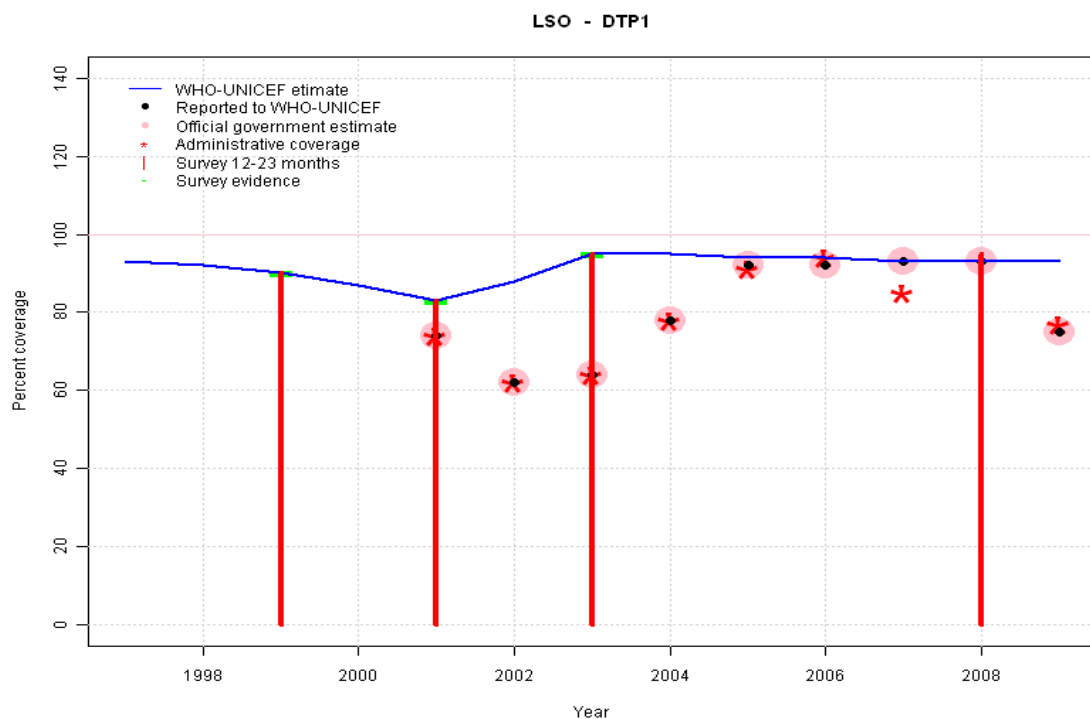
2006: Estimate interpolated between 2003 and 2008 estimates.

2007: Estimate interpolated between 2003 and 2008 estimates.

2008: Estimate based on survey results. Reported data (85 percent) not consistent with survey results (96 percent).

2009: Estimate extrapolated from 2008 level (96 percent). 2009 reported data (80 percent) ignored by working group. The national report is based on interim figures produced for operational purposes only pending the 2006 census results. Estimates are set to the levels of the previous year.

Lesotho - DTP1

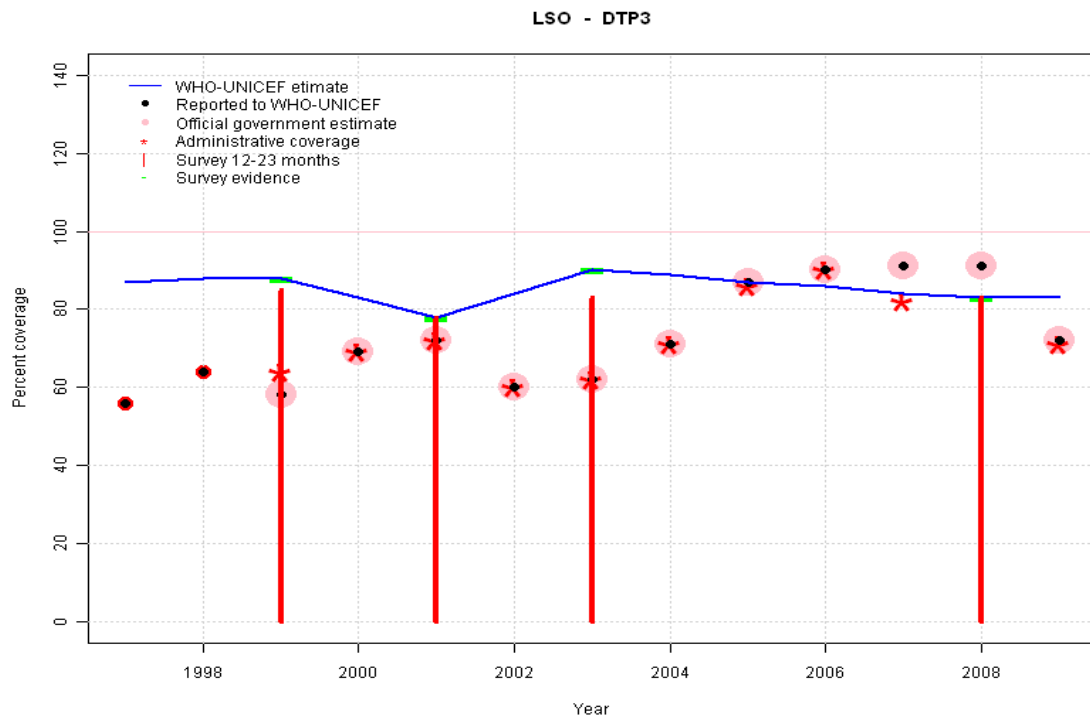


	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	93	92	90	87	83	88	95	95	94	94	93	93	93
Reported	NA	NA	NA	NA	74	62	64	78	92	92	93	93	75
Official	NA	NA	NA	NA	74	62	64	78	92	92	93	93	75
Administrative	NA	NA	NA	NA	74	62	64	78	91	94	85	NA	77
Survey	NA	NA	90	NA	83	NA	95	NA	NA	NA	NA	95	NA

Description:

- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 1999 estimates.
- 1999: Estimate based on survey results. Reported data (62 percent) not consistent with survey results (90 percent).
- 2000: Estimate interpolated between 1999 and 2001 estimates.
- 2001: Estimate based on survey results. Reported data (62 percent) not consistent with survey results (83 percent). 2001 reported data (74 percent) ignored by working group. Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2002: Reported data (62 percent) calibrated to 2001 and 2003 levels.
- 2003: Estimate based on survey results. Reported data (64 percent) not consistent with survey results (95 percent).
- 2004: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2005: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2006: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2007: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2008: Estimate based on reported data (93 percent) confirmed by survey (95 percent).
- 2009: Estimate based on trend in reported data. Missing or ignored reported value estimated by extrapolation from 2008 reported value of 93 percent. 2009 reported data (75 percent) inconsistent with data from other years. 2009 reported data (75 percent) ignored by working group. The national report is based on interim figures produced for operational purposes only pending the 2006 census results. Estimates are set to the levels of the previous year.

Lesotho - DTP3

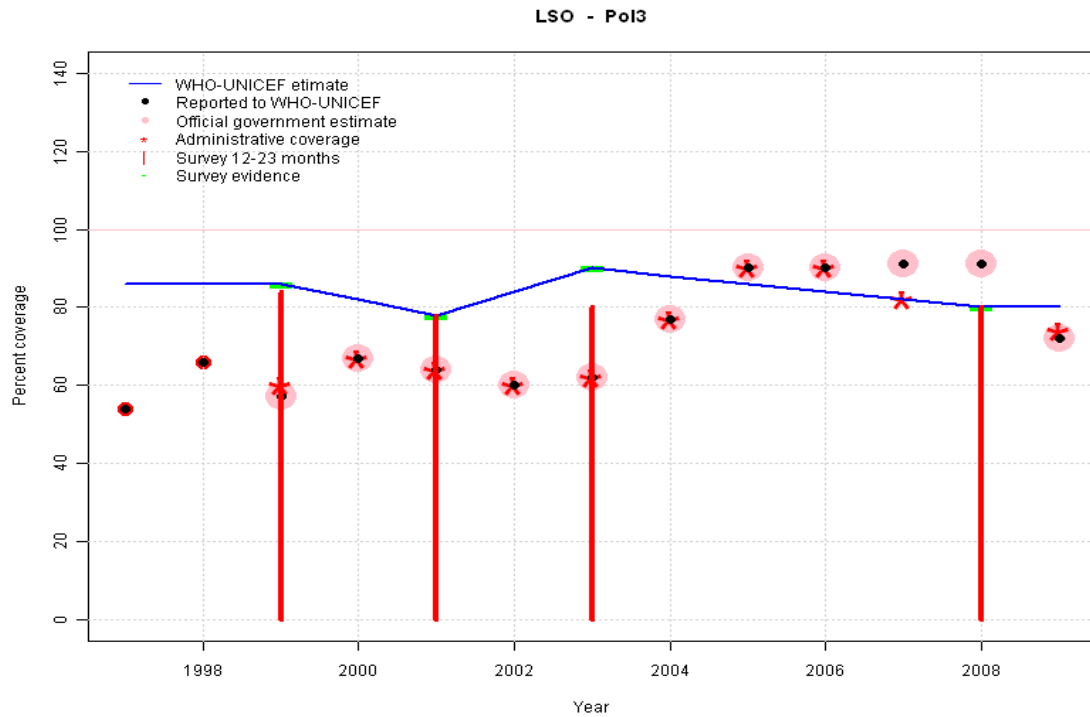


	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	87	88	88	83	78	84	90	89	87	86	84	83	83
Reported	56	64	58	69	72	60	62	71	87	90	91	91	72
Official	NA	NA	58	69	72	60	62	71	87	90	91	91	72
Administrative	NA	NA	64	69	72	60	62	71	86	90	82	NA	71
Survey	NA	NA	88	NA	78	NA	90	NA	NA	NA	NA	83	NA

Description:

- 1997: Legacy estimate.
- 1998: Estimate based on working group decision to interpolated between 1997 and 1999. Fluctuating and inconsistent data suggest poor reporting.
- 1999: Estimate based on survey results. Reported data (58 percent) not consistent with survey results (88 percent). Survey results (85 percent) adjusted for recall bias to 88 percent based on first dose card or history coverage (90 percent) and documented drop-out between first (82 percent) and third (80 percent) doses.
- 2000: Estimate interpolated between 1999 and 2001 estimates.
- 2001: Estimate based on survey results. Reported data (65 percent) not consistent with survey results (78 percent). 2001 reported data (72 percent) ignored by working group. Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2002: Estimate interpolated between 2001 and 2003 estimates.
- 2003: Estimate based on survey results. Reported data (62 percent) not consistent with survey results (90 percent). Survey results (83 percent) adjusted for recall bias to 90 percent based on first dose card or history coverage (95 percent) and documented drop-out between first (76 percent) and third (72 percent) doses.
- 2004: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2005: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2006: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2007: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2008: Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2009: Estimate extrapolated from 2008 level (83 percent). 2009 reported data (72 percent) inconsistent with data from other years. 2009 reported data (72 percent) ignored by working group. The national report is based on interim figures produced for operational purposes only pending the 2006 census results. Estimates are set to the levels of the previous year.

Lesotho - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	86	86	86	82	78	84	90	88	86	84	82	80	80
Reported	54	66	57	67	64	60	62	77	90	90	91	91	72
Official	NA	NA	57	67	64	60	62	77	90	90	91	91	72
Administrative	NA	NA	60	67	64	60	62	77	90	90	82	NA	74
Survey	NA	NA	86	NA	78	NA	90	NA	NA	NA	NA	80	NA

Description:

1997: Legacy estimate.

1998: Estimate based on working group decision to interpolated between 1997 and 1999. Fluctuating and inconsistent data suggest poor reporting.

1999: Estimate based on survey results. Reported data (57 percent) not consistent with survey results (86 percent). Survey results (84 percent) adjusted for recall bias to 86 percent based on first dose card or history coverage (89 percent) and documented drop-out between first (82 percent) and third (79 percent) doses.

2000: Estimate interpolated between 1999 and 2001 estimates.

2001: Estimate based on survey results. Reported data (64 percent) not consistent with survey results (78 percent). 2001 reported data (64 percent) ignored by working group. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2002: Estimate interpolated between 2001 and 2003 estimates.

2003: Estimate based on survey results. Reported data (62 percent) not consistent with survey results (90 percent). Survey results (80 percent) adjusted for recall bias to 90 percent based on first dose card or history coverage (95 percent) and documented drop-out between first (76 percent) and third (72 percent) doses.

2004: Estimate interpolated between 2003 and 2008 estimates.

2005: Estimate interpolated between 2003 and 2008 estimates.

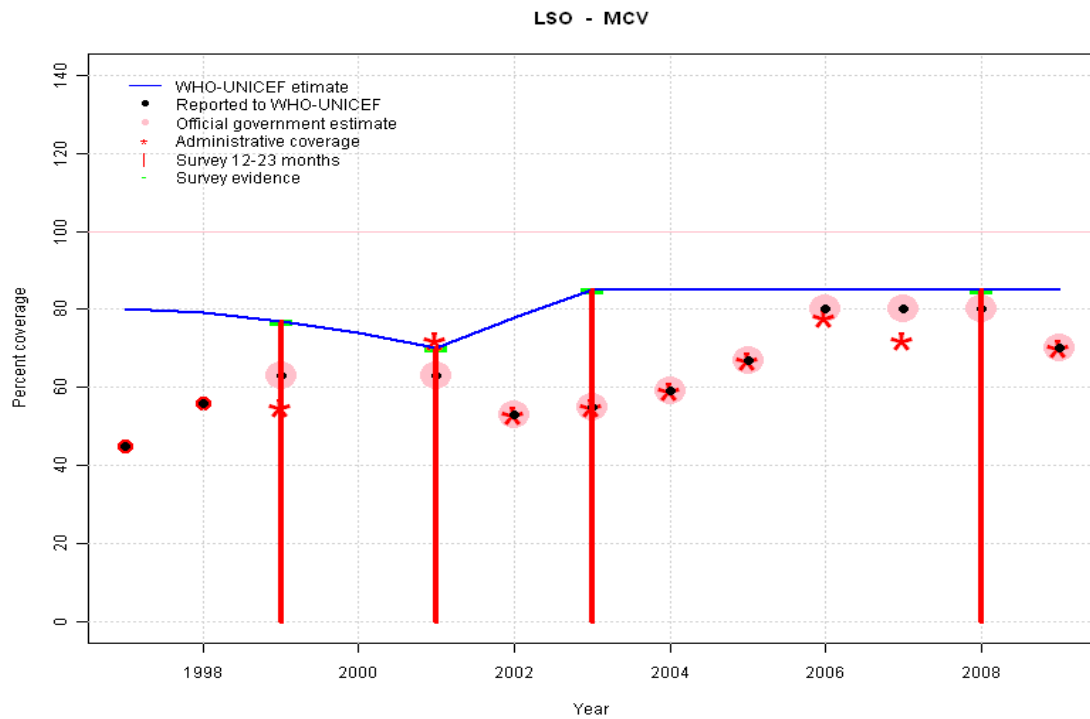
2006: Estimate interpolated between 2003 and 2008 estimates.

2007: Estimate interpolated between 2003 and 2008 estimates.

2008: Estimate based on survey results. Reported data (91 percent) not consistent with survey results (80 percent).

2009: Estimate extrapolated from 2008 level (80 percent). 2009 reported data (72 percent) inconsistent with data from other years. 2009 reported data (72 percent) ignored by working group. The national report is based on interim figures produced for operational purposes only pending the 2006 census results. Estimates are set to the levels of the previous year.

Lesotho - MCV



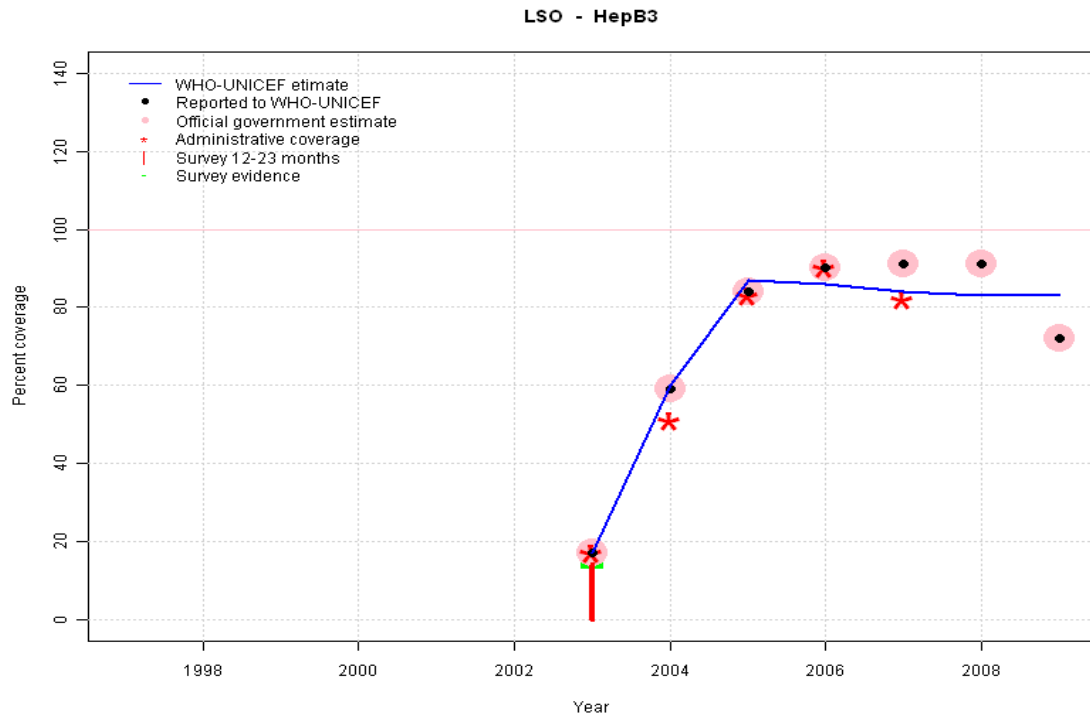
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	80	79	77	74	70	78	85	85	85	85	85	85	85
Reported	45	56	63	NA	63	53	55	59	67	80	80	80	70
Official	NA	NA	63	NA	63	53	55	59	67	80	80	80	70
Administrative	NA	NA	55	NA	72	53	55	59	67	78	72	NA	70
Survey	NA	NA	77	NA	70	NA	85	NA	NA	NA	NA	85	NA

Description:

- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 1999 estimates.
- 1999: Estimate based on survey results. Reported data (63 percent) not consistent with survey results (77 percent).
- 2000: Reported data (60 percent) calibrated to 1999 and 2001 levels. Missing or ignored reported value estimated by interpolation between reported values of 63 percent in 1999 and 53 percent in 2002.
- 2001: Estimate based on survey results. Reported data (56 percent) not consistent with survey results (70 percent). 2001 reported data (63 percent) ignored by working group. Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2002: Estimate interpolated between 2001 and 2003 estimates.
- 2003: Estimate based on survey results. Reported data (55 percent) not consistent with survey results (85 percent).
- 2004: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2005: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2006: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2007: Estimate based on working group decision to interpolated between 2003 and 2008. Fluctuating and inconsistent data suggest poor reporting.
- 2008: Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2009: Estimate extrapolated from 2008 level (85 percent). 2009 reported data (70 percent) ignored by working group. The national report is based on interim figures produced for operational purposes only pending the 2006 census results. Estimates are set to the levels of the previous year.

Lesotho - HepB3

Description:



2003: Estimate based on reported data (17 percent) confirmed by survey (14 percent). HepB introduced in 2003

2004: Reported data (59 percent) calibrated to 2003 and 2005 levels.

2005: Estimate based on DTP3 coverage estimates.

2006: Estimate interpolated between 2005 and 2008 estimates.

2007: Estimate interpolated between 2005 and 2008 estimates.

2008: Estimate based on DTP3 coverage estimates.

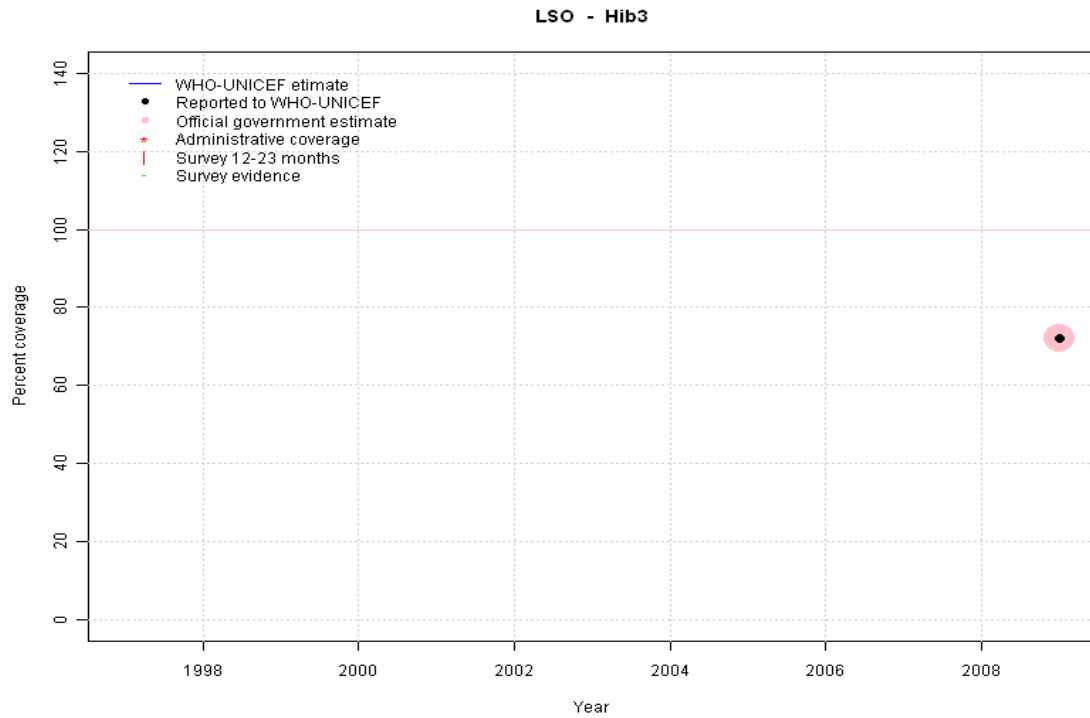
2009: Estimate extrapolated from 2008 level (83 percent). 2009 reported data (72 percent) inconsistent with data from other years. 2009 reported data (72 percent) ignored by working group. The national report is based on interim figures produced for operational purposes only pending the 2006 census results. Estimates are set to the levels of the previous year.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	17	60	87	86	84	83	83
Reported	NA	NA	NA	NA	NA	NA	17	59	84	90	91	91	72
Official	NA	NA	NA	NA	NA	NA	17	59	84	90	91	91	72
Administrative	NA	NA	NA	NA	NA	NA	17	51	83	90	82	NA	NA
Survey	NA	NA	NA	NA	NA	NA	14	NA	NA	NA	NA	NA	NA

Lesotho - Hib3

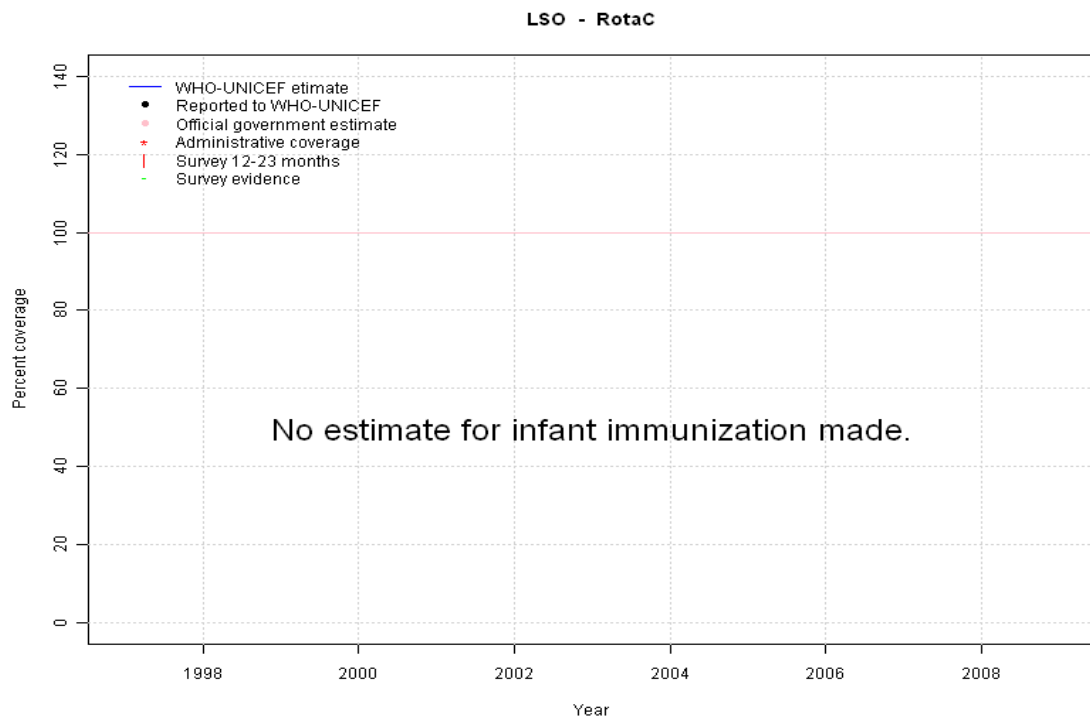
Description:

2009: Estimate assigned by working group. Hib introduced in 2008. Reporting began in 2009. Vaccine presentation is DTP-HepB-Hib. Estimate set to 2008 DTP3 level. 2009 reported data (72 percent) ignored by working group. The national report is based on interim figures produced for operational purposes only pending the 2006 census results. Estimates are set to the levels of the previous year.



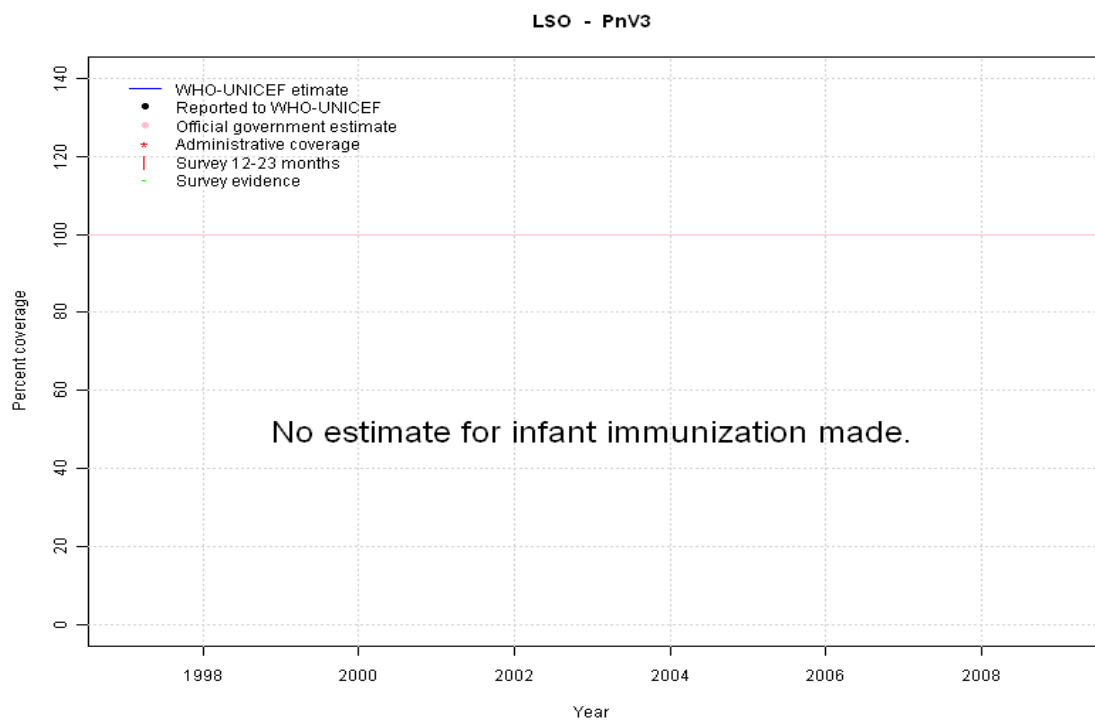
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lesotho - RotaC



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lesotho - PnV3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lesotho - survey details

2008 Lesotho Demographic and Health Survey 2009, Preliminary Report

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	96	12-23 m	660	78
DTP1	Card or History	95	12-23 m	660	78
DTP3	Card or History	83	12-23 m	660	78
MCV	Card or History	85	12-23 m	660	78
Pol1	Card or History	95	12-23 m	660	78
Pol3	Card or History	80	12-23 m	660	78

2003 Lesotho Demographic and Health Survey 2004

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	History	20	12-23 m	660	78
BCG	C or H <12 months	95	12-23 m	660	78
BCG	Card	76	12-23 m	660	78
BCG	Card or History	96	12-23 m	660	78
DTP1	C or H <12 months	94	12-23 m	660	78
DTP1	Card	76	12-23 m	660	78
DTP1	Card or History	95	12-23 m	660	78
DTP1	History	18	12-23 m	660	78
DTP3	History	11	12-23 m	660	78
DTP3	C or H <12 months	80	12-23 m	660	78
DTP3	Card	72	12-23 m	660	78
DTP3	Card or History	83	12-23 m	660	78
HepB1	History	8	12-23 m	660	78
HepB1	Card or History	31	12-23 m	660	78
HepB1	Card	23	12-23 m	660	78
HepB1	C or H <12 months	29	12-23 m	660	78
HepB3	Card or History	14	12-23 m	660	78
HepB3	Card	10	12-23 m	660	78
HepB3	C or H <12 months	12	12-23 m	660	78
HepB3	History	4	12-23 m	660	78
MCV	Card or History	85	12-23 m	660	78
MCV	History	16	12-23 m	660	78
MCV	Card	69	12-23 m	660	78
MCV	C or H <12 months	75	12-23 m	660	78

Pol1	Card	76	12-23 m	660	78
Pol1	History	19	12-23 m	660	78
Pol1	Card or History	95	12-23 m	660	78
Pol1	C or H <12 months	94	12-23 m	660	78
Pol3	C or H <12 months	77	12-23 m	660	78
Pol3	Card	72	12-23 m	660	78
Pol3	Card or History	80	12-23 m	660	78
Pol3	History	7	12-23 m	660	78

2001 Lesotho, National Nutrition and EPI Cluster Survey 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	83	12-23 m	2289	91
DTP1	Card or History	83	12-23 m	2289	91
DTP3	Card or History	78	12-23 m	2289	91
MCV	Card or History	70	12-23 m	2289	91
Pol1	Card or History	83	12-23 m	2289	91
Pol3	Card or History	78	12-23 m	2289	91

1999 Lesotho 2000 End Decade Multiple Indicator Cluster Survey (EMICS), Draft Preliminary Report, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	90	12-23 m	762	85
BCG	Card	83	12-23 m	762	85
BCG	Card or History	92	12-23 m	762	85
BCG	History	8	12-23 m	762	85
DTP1	C or H <12 months	88	12-23 m	762	85
DTP1	Card	82	12-23 m	762	85
DTP1	Card or History	90	12-23 m	762	85
DTP1	History	8	12-23 m	762	85
DTP3	History	6	12-23 m	762	85
DTP3	C or H <12 months	84	12-23 m	762	85
DTP3	Card	80	12-23 m	762	85
DTP3	Card or History	85	12-23 m	762	85
MCV	Card	70	12-23 m	762	85
MCV	Card or History	77	12-23 m	762	85
MCV	History	8	12-23 m	762	85

Lesotho - survey details

MCV	C or H <12 months	71	12-23 m	762	85
Pol1	C or H <12 months	88	12-23 m	762	85
Pol1	Card	82	12-23 m	762	85
Pol1	Card or History	89	12-23 m	762	85
Pol1	History	7	12-23 m	762	85

Pol3	C or H <12 months	82	12-23 m	762	85
Pol3	Card	79	12-23 m	762	85
Pol3	Card or History	84	12-23 m	762	85
Pol3	History	4	12-23 m	762	85

Further information and estimates for 1980-1996 are available at:

http://www.childinfo.org/immunization_countryreports.html

http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html

Lesotho

WHO/UNICEF Estimates of Protection at Birth (PAB) against tetanus

In countries where tetanus is recommended for girls and women coverage is usually reported as "TT2+", i.e. the proportion of (pregnant) women who have received their second or superior TT dose in a given year. TT2 + coverage, however, can under-represent the actual proportion of births that are protected against tetanus as it does not include women who have previously received protective doses, women who received one dose without documentation of previous doses, and women who received doses in TT (or Td) supplemental immunization activities (SIA). In addition, girls who have received DTP in their childhood and are entering childbearing age, may be protected with TT booster doses.

WHO and UNICEF have developed a model that takes into account the above scenarios, and calculates the proportion of births in a given year that can be considered as having been protected against tetanus - "Protection at Birth".

In this model, annual cohorts of women are followed from infancy through their life. A proportion receive DTP in infancy (estimated based on the WHO-UNICEF estimates of DTP3 coverage). In addition some of these women also receive TT through routine services when they are pregnant and may also receive TT during SIAs. The model also adjusts reported data, taking into account coverage patterns in other years, and/or results available through surveys. The duration of protection is then calculated, based on WHO estimates of the duration of protection by doses ever received. The proportion of births that are protected against tetanus as a result of maternal immunization reflects the tetanus immunization received by the mother throughout her life rather than simply the TT immunizations received during the current pregnancy.

Year	PAB coverage estimate (%)
1997	85
1998	82
1999	77
2000	73
2001	74
2002	76
2003	77
2004	78
2005	79
2006	80
2007	82
2008	83
2009	83

¹ This model is described in: Griffiths U., Wolfson L., Quddus A., Younus M., Hafiz R.. Incremental cost-effectiveness of supplementary immunization activities to prevent neo-natal tetanus in Pakistan. Bulletin of the World Health Organization 2004; 82:643-651.