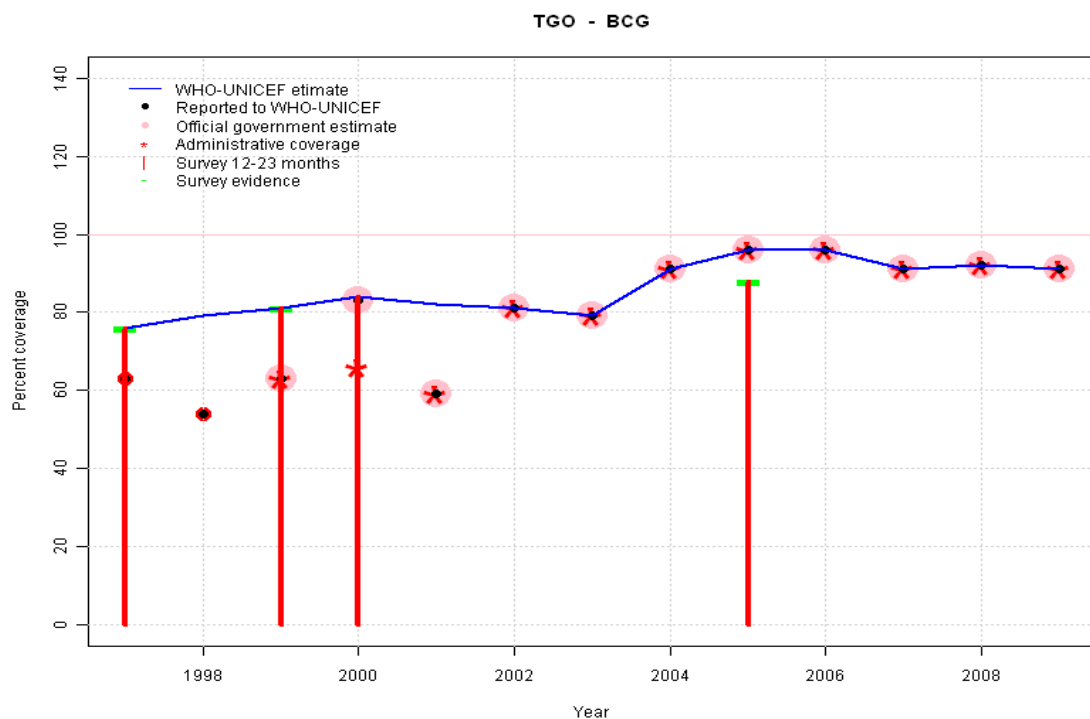


# Togo - BCG

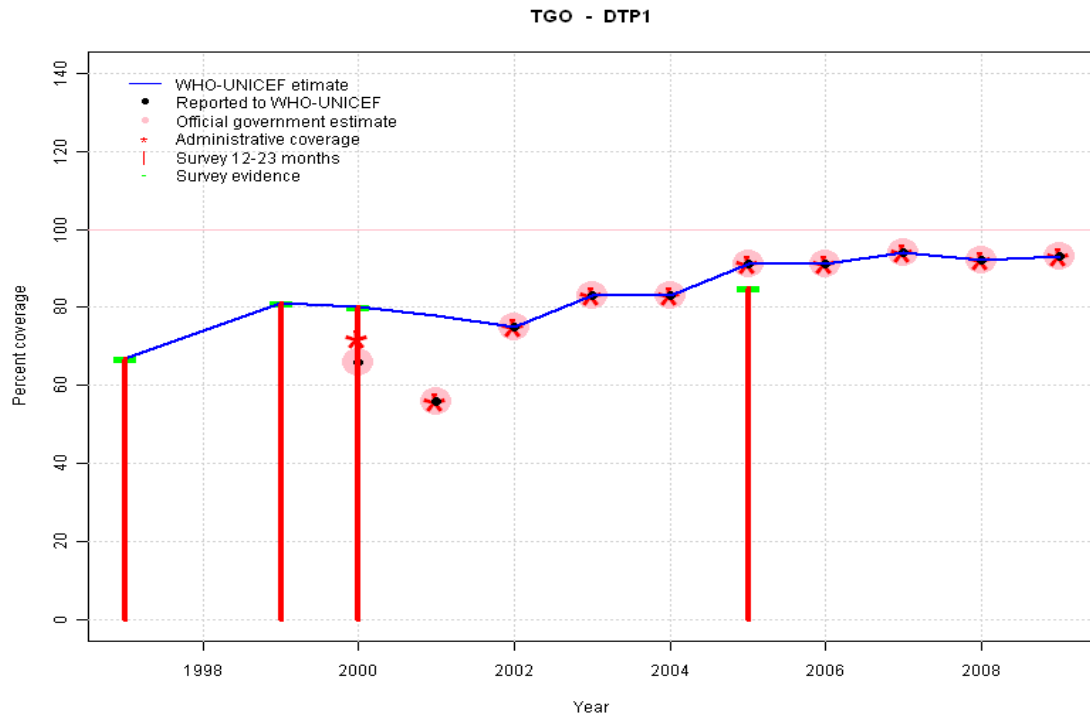


	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	76	79	81	84	82	81	79	91	96	96	91	92	91
Reported	63	54	63	83	59	81	79	91	96	96	91	92	91
Official	NA	NA	63	83	59	81	79	91	96	96	91	92	91
Administrative	NA	NA	63	66	59	81	79	91	96	96	91	92	91
Survey	76	NA	81	84	NA	NA	NA	NA	88	NA	NA	NA	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 (81 percent).
- 2000: Estimate based on survey results. Reported data (69 percent) not consistent with survey results (84 percent). 2000 reported data (83 percent) inconsistent with data from other years.
- 2001: Estimate interpolated between 2000 and 2003 estimates. 2001 reported data (59 percent) inconsistent with data from other years. The decline in coverage is unexplained.
- 2002: Estimate interpolated between 2000 and 2003 estimates.
- 2003: 2003 results consistent with 2005 survey results.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data (96 percent) confirmed by survey (88 percent).
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

# Togo - DTP1

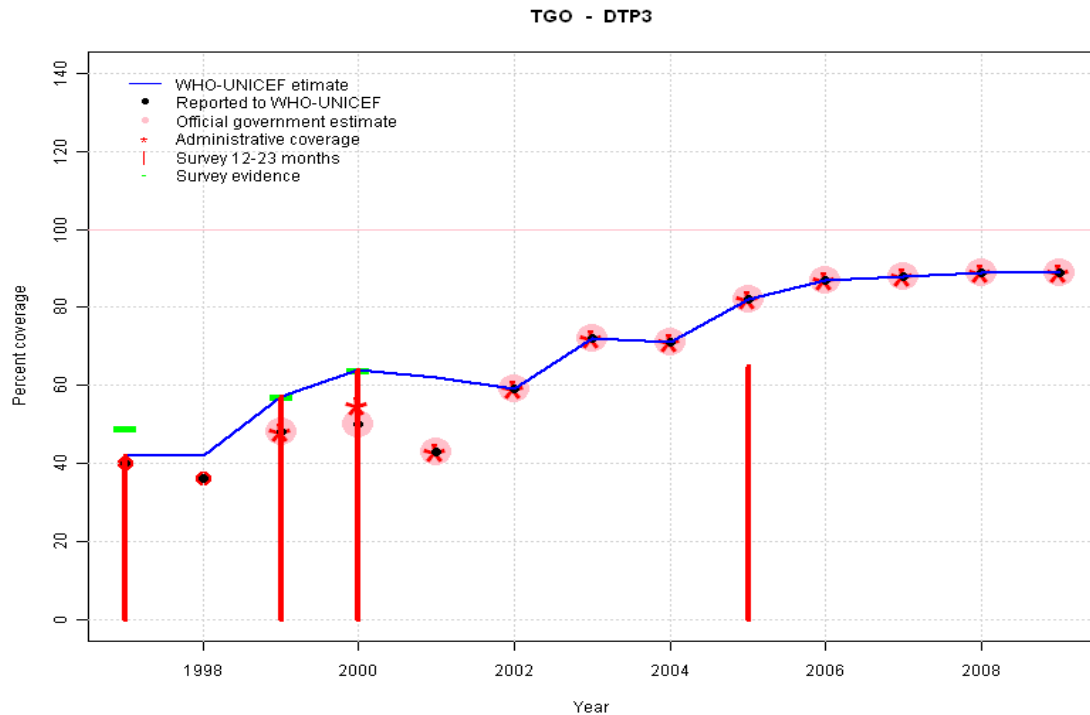


## Description:

- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 1999 estimates.
- 1999: Estimate based on survey results. Reported data (66 percent) not consistent with survey results (81 percent).
- 2000: Estimate based on survey results. Reported data (66 percent) not consistent with survey results (80 percent).
- 2001: Estimate interpolated between 2000 and 2002 estimates. The decline in coverage is unexplained.
- 2002: Estimates since 2002 are based on national estimates. A 2004 data quality audit confirms accuracy of national reporting system.
- 2003: 2003 results consistent with 2005 survey results.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data (91 percent) confirmed by survey (85 percent).
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	67	74	81	80	78	75	83	83	91	91	94	92	93
Reported	NA	NA	NA	66	56	75	83	83	91	91	94	92	93
Official	NA	NA	NA	66	56	75	83	83	91	91	94	92	93
Administrative	NA	NA	NA	72	56	75	83	83	91	91	94	92	93
Survey	67	NA	81	80	NA	NA	NA	NA	85	NA	NA	NA	NA

# Togo - DTP3

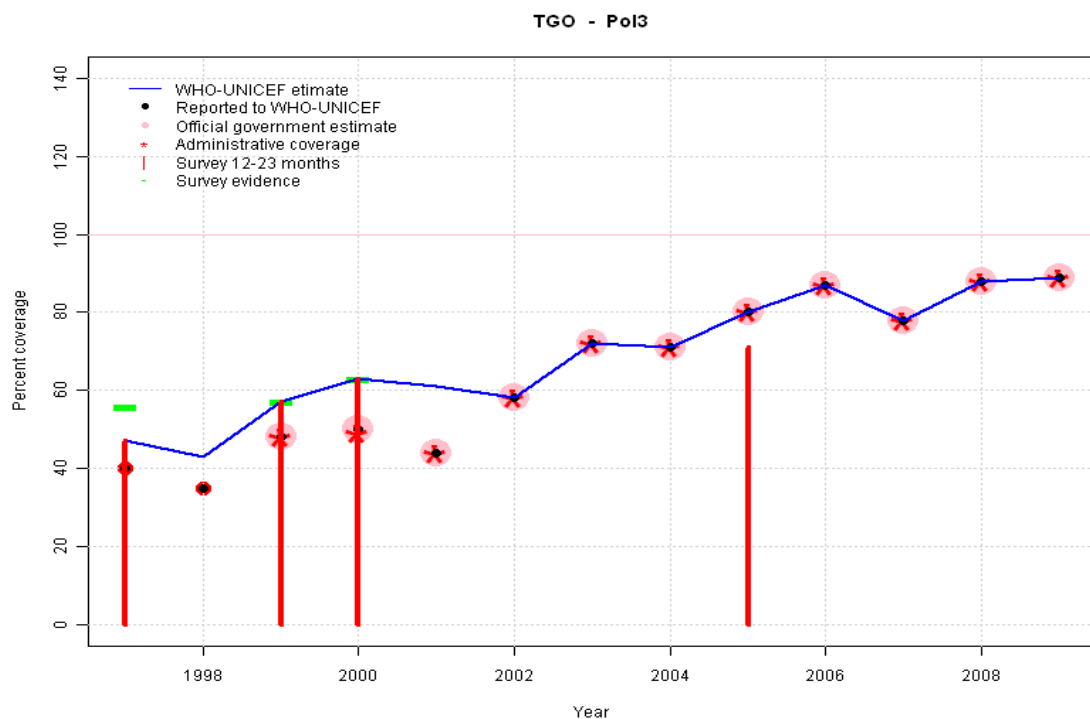


	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	42	42	57	64	62	59	72	71	82	87	88	89	89
Reported	40	36	48	50	43	59	72	71	82	87	88	89	89
Official	NA	NA	48	50	43	59	72	71	82	87	88	89	89
Administrative	NA	NA	48	55	43	59	72	71	82	87	88	89	89
Survey	49	NA	57	64	NA	NA	NA	NA	NA	NA	NA	NA	NA

## Description:

- 1997: Legacy estimate. Survey results (42 percent) adjusted for recall bias to 49 percent based on first dose card or history coverage (67 percent) and documented drop-out between first (52 percent) and third (38 percent) doses.
- 1998: Reported data (36 percent) calibrated to 1997 and 1999 levels.
- 1999: Estimate is based on survey results.
- 2000: Estimate based on survey results. Reported data (50 percent) not consistent with survey results (64 percent).
- 2001: Estimate interpolated between 2000 and 2002 estimates. The decline in coverage is unexplained.
- 2002: Estimates since 2002 are based on national estimates. A 2004 data quality audit confirms accuracy of national reporting system.
- 2003: 2003 results consistent with 2005 survey results.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data. Survey results of 65 percent ignored by working group. Survey results inconsistent with other data. Lower DTP3 results may reflect vaccine stock out in early 2004 with delayed catch-up.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

# Togo - Pol3



## Description:

1997: Legacy estimate. Survey results (47 percent) adjusted for recall bias to 56 percent based on first dose card or history coverage (78 percent) and documented drop-out between first (54 percent) and third (39 percent) doses.

1998: Reported data (35 percent) calibrated to 1997 and 1999 levels.

1999: Estimate is based on survey results.

2000: Estimate based on survey results. Reported data (50 percent) not consistent with survey results (63 percent).

2001: Estimate interpolated between 2000 and 2002 estimates. The decline in coverage is unexplained.

2002: Estimates since 2002 are based on national estimates. A 2004 data quality audit confirms accuracy of national reporting system.

2003: 2003 results consistent with 2005 survey results.

2004: Estimate based on reported data.

2005: Estimate based on reported data (80 percent) confirmed by survey (80 percent). Survey results (71 percent) adjusted for recall bias to 80 percent based on first dose card or history coverage (92 percent) and documented drop-out between first (69 percent) and third (60 percent) doses.

2006: Estimate based on reported data.

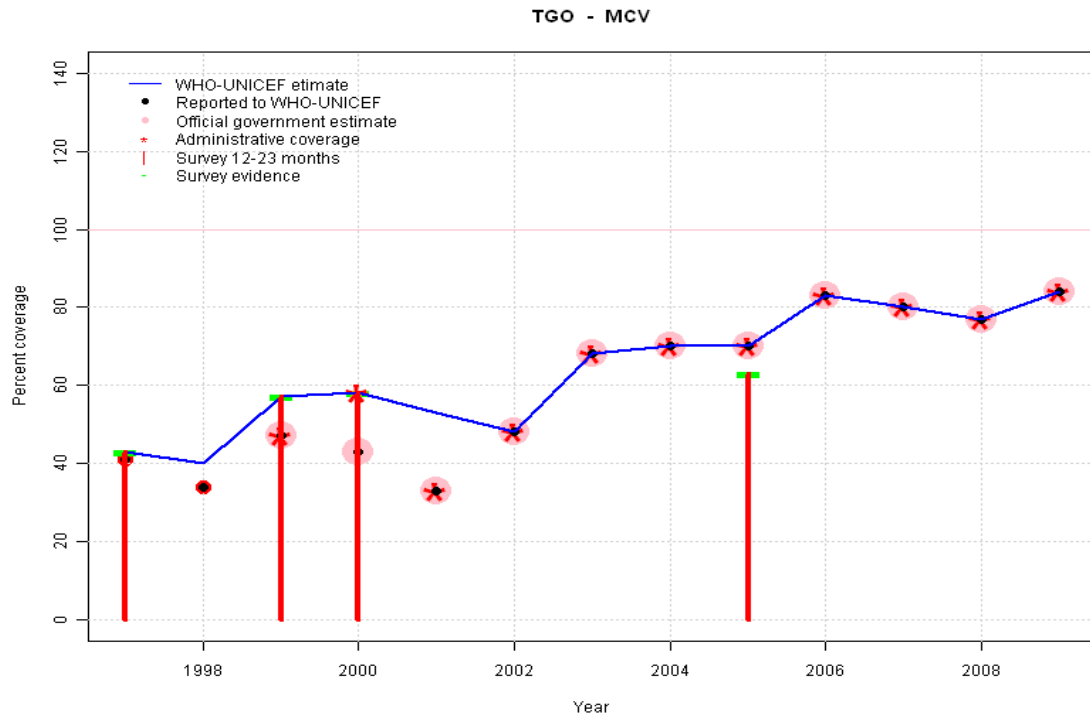
2007: Estimate based on reported data.

2008: Estimate based on reported data.

2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	47	43	57	63	61	58	72	71	80	87	78	88	89
Reported	40	35	48	50	44	58	72	71	80	87	78	88	89
Official	NA	NA	48	50	44	58	72	71	80	87	78	88	89
Administrative	NA	NA	48	49	44	58	72	71	80	87	78	88	89
Survey	56	NA	57	63	NA	NA	NA	NA	80	NA	NA	NA	NA

# Togo - MCV



## Description:

- 1997: Legacy estimate.
- 1998: Reported data (34 percent) calibrated to 1997 and 1999 levels.
- 1999: Estimate is based on survey results.
- 2000: Estimate based on survey results. Reported data (43 percent) not consistent with survey results (58 percent).
- 2001: Estimate interpolated between 2000 and 2002 estimates. The decline in coverage is unexplained.
- 2002: Estimates since 2002 are based on national estimates. A 2004 data quality audit confirms accuracy of national reporting system.
- 2003: 2003 results consistent with 2005 survey results.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data (70 percent) confirmed by survey (63 percent).
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

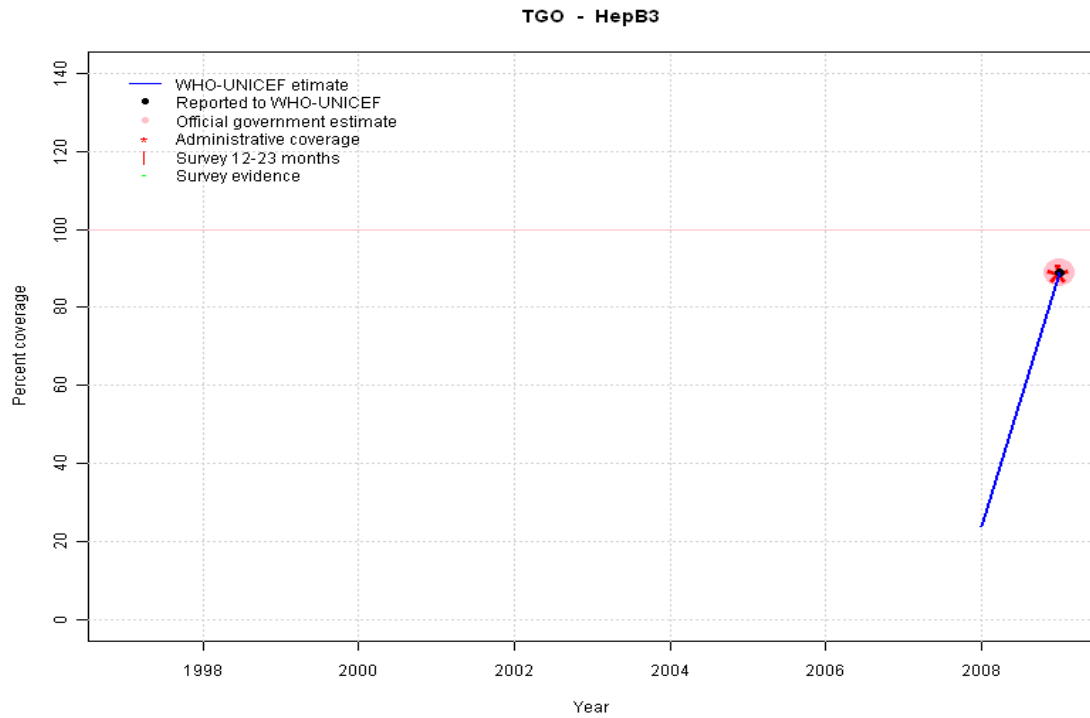
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	43	40	57	58	53	48	68	70	70	83	80	77	84
Reported	41	34	47	43	33	48	68	70	70	83	80	77	84
Official	NA	NA	47	43	33	48	68	70	70	83	80	77	84
Administrative	NA	NA	47	58	33	48	68	70	70	83	80	77	84
Survey	43	NA	57	58	NA	NA	NA	NA	63	NA	NA	NA	NA

# Togo - HepB3

## Description:

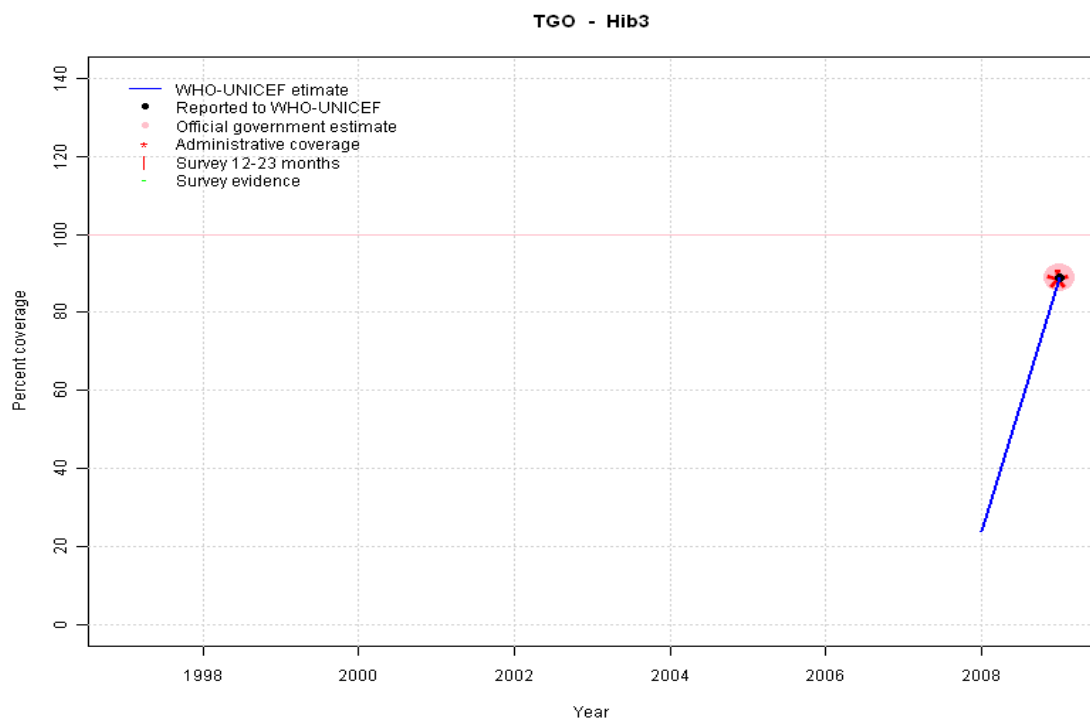
2008: Estimate assigned by working group. Pentavalent DTP-HepB-Hib combination vaccine was introduced in 2008; used nationally since 2009. 48 percent coverage was reached in 50 percent of the country.

2009: Estimate based on reported data.



	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	24	89
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Togo - Hib3



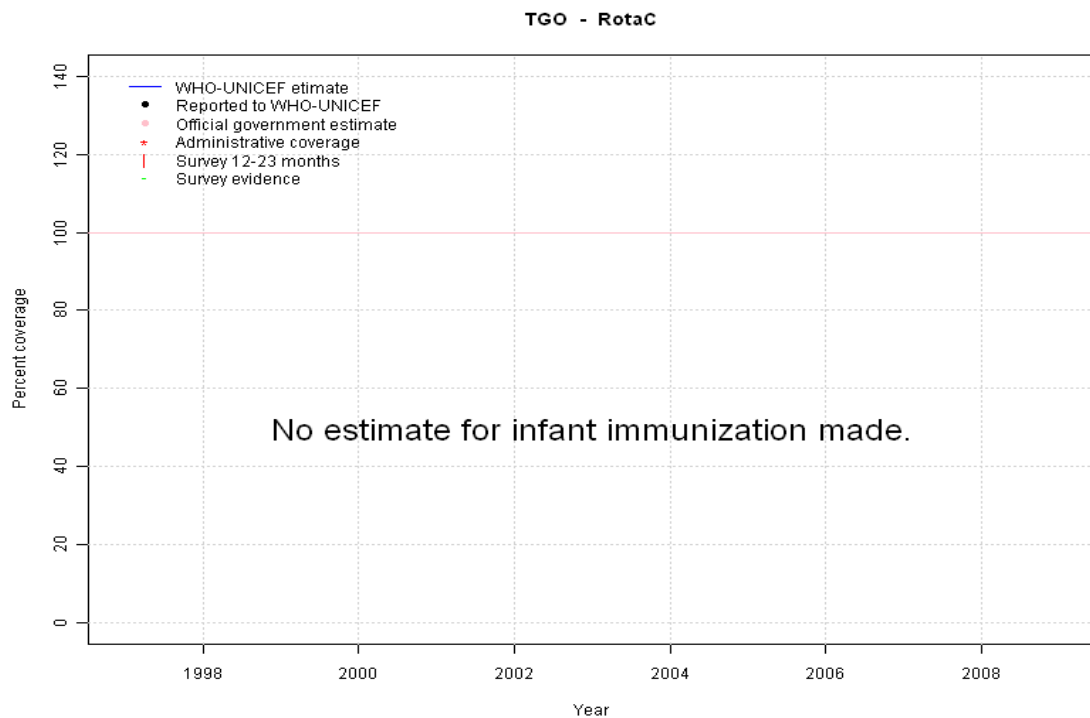
## Description:

2008: Estimate assigned by working group. Pentavalent DTP-HepB-Hib combination vaccine was introduced in 2008; used nationally since 2009. 48 percent coverage was reached in 50 percent of the country.

2009: Estimate based on reported data. Reporting started in 2009.

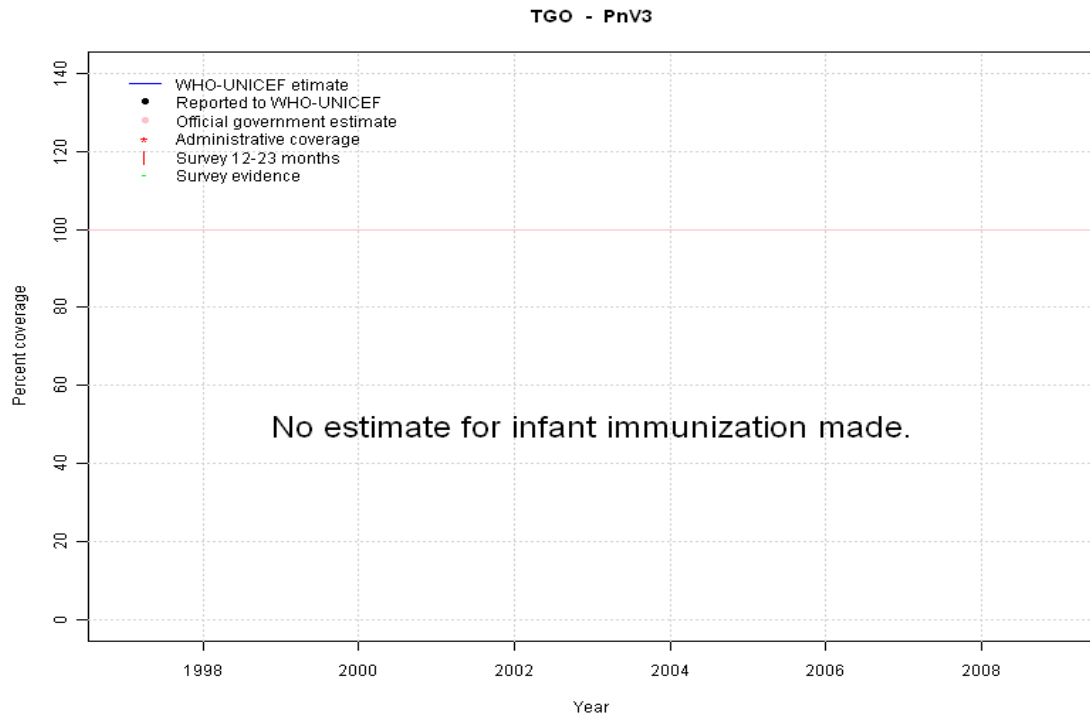
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	89
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Togo - RotaC



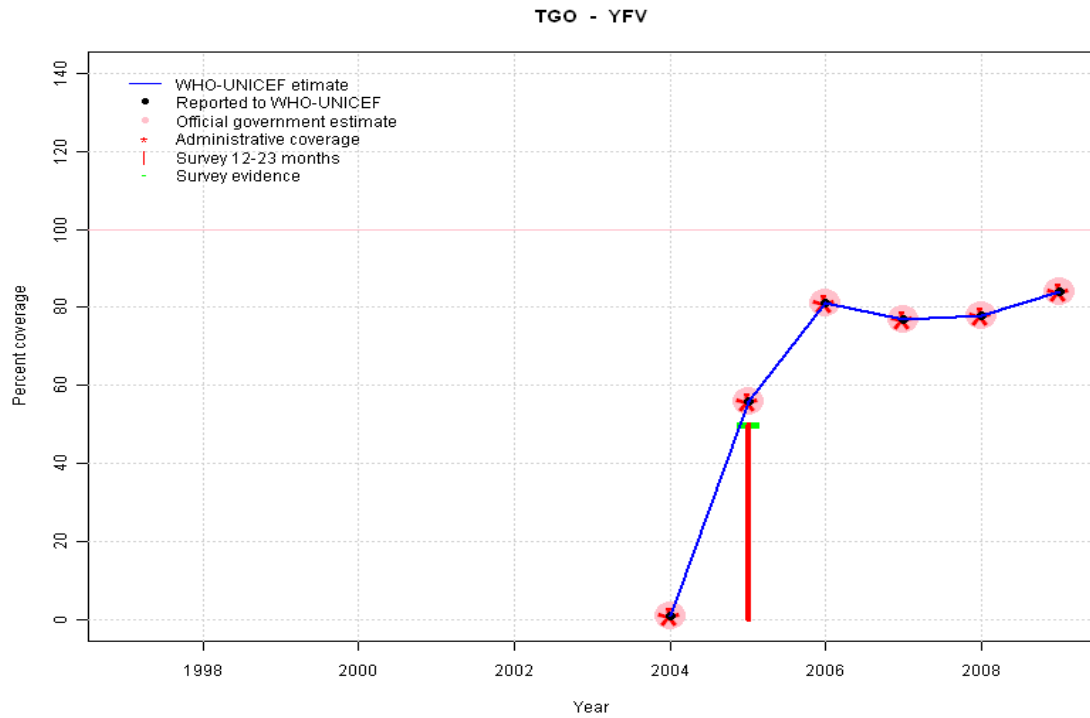
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA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

# Togo - 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

# Togo - YFV



## Description:

2004: Estimate based on trend in reported data. YFV introduced in December 2004

2005: Estimate based on reported data (56 percent) confirmed by survey (50 percent).

2006: Estimate based on reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	1	56	81	77	78	84
Reported	NA	NA	NA	NA	NA	NA	NA	1	56	81	77	78	84
Official	NA	NA	NA	NA	NA	NA	NA	1	56	81	77	78	84
Administrative	NA	NA	NA	NA	NA	NA	NA	1	56	81	77	78	84
Survey	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	NA	NA	NA

# Togo - survey details

2005 Enquête par grappe à indicateurs multiples de Togo, 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	87	12-23 m	888	70
BCG	Card	68	12-23 m	888	70
BCG	Card or History	88	12-23 m	888	70
BCG	History	20	12-23 m	888	70
DTP1	C or H <12 months	84	12-23 m	888	70
DTP1	Card	68	12-23 m	888	70
DTP1	Card or History	85	12-23 m	888	70
DTP1	History	17	12-23 m	888	70
DTP3	History	7	12-23 m	888	70
DTP3	C or H <12 months	63	12-23 m	888	70
DTP3	Card	58	12-23 m	888	70
DTP3	Card or History	65	12-23 m	888	70
HepB1	Card	2	12-23 m	888	70
HepB1	Card or History	19	12-23 m	888	70
HepB1	History	17	12-23 m	888	70
HepB1	C or H <12 months	16	12-23 m	888	70
HepB3	History	0	12-23 m	888	70
HepB3	Card or History	2	12-23 m	888	70
HepB3	Card	2	12-23 m	888	70
HepB3	C or H <12 months	1	12-23 m	888	70
MCV	Card	50	12-23 m	888	70
MCV	Card or History	63	12-23 m	888	70
MCV	History	13	12-23 m	888	70
MCV	C or H <12 months	58	12-23 m	888	70
Pol1	C or H <12 months	90	12-23 m	888	70
Pol1	Card	69	12-23 m	888	70
Pol1	Card or History	92	12-23 m	888	70
Pol1	History	24	12-23 m	888	70
Pol3	C or H <12 months	69	12-23 m	888	70
Pol3	History	10	12-23 m	888	70
Pol3	Card	60	12-23 m	888	70
Pol3	Card or History	71	12-23 m	888	70
YFV	History	9	12-23 m	888	70
YFV	C or H <12 months	44	12-23 m	888	70
YFV	Card	40	12-23 m	888	70
YFV	Card or History	50	12-23 m	888	70

2000 Togo, Revue Externe du Programme Elargi de Vaccination, Rapport Préliminaire, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	84	12-23 m	1308	79
DTP1	Card or History	80	12-23 m	1308	79
DTP3	Card or History	64	12-23 m	1308	79
MCV	Card or History	58	12-23 m	1308	79
Pol1	Card or History	83	12-23 m	1308	79
Pol3	Card or History	63	12-23 m	1308	79

1999 Togo MICS 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	81	12-23 m	638	66
DTP1	Card or History	81	12-23 m	638	66
DTP3	Card or History	57	12-23 m	638	66
MCV	Card or History	57	12-23 m	638	66
Pol1	Card or History	87	12-23 m	638	66
Pol3	Card or History	57	12-23 m	638	66

1997 Enquête Démographique et de Santé Togo 1998, 1999

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	57	12-23 m	1134	58
BCG	Card <12 months	56	12-23 m	1134	58
BCG	Card or History	76	12-23 m	1134	58
BCG	History	19	12-23 m	1134	58
BCG	C or H <12 months	73	12-23 m	1134	58
BCG	C or H <12 months	80	24-35 m	1190	56
DTP1	Card	52	12-23 m	1134	58
DTP1	History	14	12-23 m	1134	58
DTP1	Card <12 months	52	12-23 m	1134	58
DTP1	C or H <12 months	64	12-23 m	1134	58
DTP1	Card or History	67	12-23 m	1134	58
DTP1	C or H <12 months	74	24-35 m	1190	56

## Togo - survey details

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DTP3	History	4	12-23 m	1134	58	Pol1	Card or History	78	12-23 m	1134	58
DTP3	C or H <12 months	36	12-23 m	1134	58	Pol1	Card	54	12-23 m	1134	58
DTP3	Card	38	12-23 m	1134	58	Pol1	C or H <12 months	74	12-23 m	1134	58
DTP3	Card <12 months	37	12-23 m	1134	58	Pol1	History	24	12-23 m	1134	58
DTP3	Card or History	42	12-23 m	1134	58	Pol1	C or H <12 months	81	24-35 m	1190	56
DTP3	C or H <12 months	44	24-35 m	1190	56	Pol3	C or H <12 months	41	12-23 m	1134	58
MCV	Card	35	12-23 m	1134	58	Pol3	Card	39	12-23 m	1134	58
MCV	Card <12 months	34	12-23 m	1134	58	Pol3	Card <12 months	37	12-23 m	1134	58
MCV	Card or History	43	12-23 m	1134	58	Pol3	Card or History	47	12-23 m	1134	58
MCV	History	8	12-23 m	1134	58	Pol3	History	8	12-23 m	1134	58
MCV	C or H <12 months	32	12-23 m	1134	58	Pol3	C or H <12 months	46	24-35 m	1190	56
MCV	C or H <12 months	33	24-35 m	1190	56						
Pol1	Card <12 months	53	12-23 m	1134	58						

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

[http://www.childinfo.org/immunization\\_countryreports.html](http://www.childinfo.org/immunization_countryreports.html)

[http://www.who.int/immunization\\_monitoring/routine/immunization\\_coverage/en/index4.html](http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html)

## Togo

### 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	57
1998	51
1999	62
2000	63
2001	60
2002	60
2003	75
2004	79
2005	81
2006	81
2007	82
2008	81
2009	81

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<sup>1</sup> 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.