

AFRICA



Africa

NTP MANAGER (OR EQUIVALENT) AND/OR PERSON(S) RESPONSIBLE FOR COMPLETING DATA COLLECTION FORM

Algeria	Sofiane Alihalassa
Angola	Maria da Conceição Palma; Celestino Teixeira
Benin	
Botswana	Grace Kangwagye Nkubito
Burkina Faso	Sary Mathurin Dembélé; Tandaogo Saouadogo
Burundi	Donatien Nkurunziza; Damas Ntisigana
Cameroon	Tsala François Ottou; Adolphe Nkou Bikoe
Cape Verde	Maria da Luz Lima
Central African Republic	
Chad	Oumar Abdelhadi
Comoros	
Congo	Ongouo hermann; Antoine Ngoulou
Côte d'Ivoire	Jacquemin Kouakou; Aicha Diakite
DR Congo	André Ndongosieme
Equatorial Guinea	
Eritrea	Mineab Sebhatu
Ethiopia	Bekele Chaka; Azmera Molla
Gabon	Toung Mve Médard; Géneviève Angue Nguema
Gambia	Adama Jallow; Kejaw Saidykhan
Ghana	Frank Adae Bonsu
Guinea	Namory Keita; Fodé Cissé
Guinea-Bissau	
Kenya	Joseph Kimagut Sitienei; Hillary Kipruto; Joel Kangangi
Lesotho	Llaang Maama; Tseliso Malata
Liberia	
Madagascar	Martin Rakotonjanahary; Rarivoson Benjamin
Malawi	Ibrahim Idana; Felix Salaniponi; John Kwanjana
Mali	Diallo Alimata Naco
Mauritania	Sidina Ould Mohamed Ahmed; Mohamed Ould Salem
Mauritius	F. Rujeedawa
Mozambique	Paula Samogudo; Roberta Pastore; Zaina Cuna
Namibia	Rosalia Indongo
Niger	Marafa Boulacar; Moumouni Kadi
Nigeria	M. Kabir; Osahon Jeremie I. Ogbeiwi
Rwanda	Michel Gasana; Evariste Gasana
Sao Tome & Principe	Aleixo Rodrigues de Sousa Pires
Senegal	Mame Bocar Lo; Awa Héléne Diop
Seychelles	
Sierra Leone	Foday Dfafe; Saffa Kamara
South Africa	Lindiwe Mvusi; Omphemetse Mokgatlhe; Letta Seshoka
Swaziland	Themba Dlamini; Thabo Hlophe
Togo	Fantchè Awokou
Uganda	Francis Adatu-Engwau; Joseph Imoko
UR Tanzania	Saidi Egwaga; Emmanuel Nkiligi
Zambia	Nathan Kapata; M. Maboshe
Zimbabwe	Charles Sandy; Nicholas Siziba

This list shows the people named on the data collection form sent to WHO in 2008, not necessarily the current NTP manager. It is intended as an acknowledgement rather than a directory.

Table A3.1 Methods and assumptions for estimation of TB incidence, prevalence and mortality, Africa

Reference year	Incidence est. based on	Trend	Source of estimates			CfR ss+ HIV-		Duration ss+ HIV-		Duration ss-HIV-	
			TB/HIV	MDR (new)	MDR (re-treat)	DOTS	non-DOTS	DOTS	non-DOTS	DOTS	non-DOTS
Algeria	ARI	Country notifs, exp.	Indirect	DRS	Model	0.05	0.05	1	1	1	1
Angola	1997	Group, exp.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Benin	2000	Country notifs, exp.	Indirect	DRS	Model	0.1	0.3	1	2.5	1	2.5
Botswana	1997	Group, moving ave.	Routine	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Burkina Faso	1997	Group, moving ave.	Routine	Model	Model	0.1	0.3	1	2.5	1	2.5
Burundi	1997	Group, moving ave.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Cameroun	1997	Group, moving ave.	Routine	Model	Model	0.1	0.3	1	2.5	1	2.5
Cape Verde	1997	Country notifs, exp.	-	Model	Model	0.1	0.3	1	2.5	1	2.5
Central African Republic	1997	Group, moving ave.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Chad	1997	Group, moving ave.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Comoros	1997	Group, moving ave.	Indirect	Model	Model	0.1	0.2	1	2.5	1	2.5
Congo	1997	Group, moving ave.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Cote d'Ivoire	1997	Group, moving ave.	Routine	DRS	Model	0.1	0.3	1	2.5	1	2.5
DR Congo	1997	Group, moving ave.	Survey	Model	Model	0.1	0.3	1	2.5	1	2.5
Equatorial Guinea	1997	Group, moving ave.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Eritrea	1997	Group, exp.	Indirect	Model	Model	0.1	0.3	1	3.4	1	3.4
Ethiopia	1997	Group, moving ave.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Gabon	1997	Country notifs, moving ave.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Gambia	1997	Group, exp.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Guinea	1997	Country notifs, exp.	Survey	Model	Model	0.1	0.3	1	2.5	1	2.5
Guinea-Bissau	1997	Country notifs, exp.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Kenya	2006	Country notifs, moving ave.	Routine	Model	Model	0.1	0.3	1	2.5	1	2.5
Lesotho	1997	Country notifs, moving ave.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Liberia	1997	Group, exp.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Madagascar	1997	Country notifs, exp.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Malawi	1997	Country notifs, moving ave.	Routine	Model	Model	0.1	0.3	1	2.5	1	2.5
Mali	1997	Country notifs, exp.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Mauritania	1997	Group, exp.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Mauritius	2006	Country notifs, exp.	Routine	Model	Model	0.1	0.2	1	2.5	1	2.5
Mozambique	1997	Group, moving ave.	Routine	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Namibia	1997	Group, moving ave.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Niger	1997	Group, exp.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Nigeria	1997	Group, moving ave.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Rwanda	1997	Group, moving ave.	Routine	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Sao Tome & Principe	1997	Group, exp.	Routine	Model	Model	0.1	0.3	1	2.5	1	2.5
Senegal	1997	Group, exp.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Sierra Leone	1997	Country notifs, exp.	Indirect	Model	Model	0.1	0.2	1	2.5	1	2.5
South Africa	2001	Country notifs, moving ave.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Swaziland	1997	Country notifs, moving ave.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Togo	1997	Group, exp.	Indirect	Model	Model	0.1	0.3	1	2.5	1	2.5
Uganda	1997	Country notifs, moving ave.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5
UR Tanzania	1997	Country notifs, moving ave.	Routine	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Zambia	1997	Country notifs, moving ave.	Routine	DRS	DRS	0.1	0.3	1	2.5	1	2.5
Zimbabwe	1997	Group, moving ave.	Indirect	DRS	DRS	0.1	0.3	1	2.5	1	2.5

- indicates no estimate; ARI, annual risk of infection; ave, average; C-ReC, capture re-capture; CDR, case detection rate; DRS, drug resistance survey; exp., exponential; HIV+, HIV-positive; HIV-, HIV-negative; Mort., mortality (vital registration); Notif(s), notification(s); Prev., disease prevalence survey; ss+, sputum smear-positive; ss-, sputum smear-negative. See Annex 2 (methods) for details. Data can be downloaded from www.who.int/tb

Table A3.3 Estimated incidence of TB (all forms) in all people, Africa, 1990–2007

	Number of cases																		Rate (per 100 000 population)																						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007					
Algeria	9 490	9 963	10 453	10 955	11 462	11 970	12 477	12 985	13 498	14 026	14 577	15 152	15 753	16 380	17 033	17 712	18 420	19 157	38	38	39	40	41	42	43	44	46	47	48	49	50	51	53	54	55	57					
Angola	21 634	22 741	23 955	25 249	26 574	27 898	29 205	30 510	31 845	33 174	34 798	36 475	38 285	40 216	42 241	44 344	46 518	48 777	205	209	214	218	222	226	231	236	240	245	250	255	260	270	276	281	287						
Benin	3 963	4 151	4 353	4 565	4 781	4 997	5 211	5 426	5 644	5 874	6 118	6 379	6 656	6 947	7 249	7 559	7 878	8 206	77	77	78	79	80	80	81	82	83	84	85	86	86	87	88	89	90	91					
Botswana	4 201	4 793	5 267	5 801	6 347	6 948	7 506	8 235	9 059	9 998	11 071	12 141	13 134	13 952	14 749	15 524	16 277	17 010	307	341	364	390	415	444	468	503	542	588	640	692	740	772	800	770	751	731					
Burkina Faso	8 476	9 618	10 579	11 674	12 813	14 091	15 509	16 911	18 765	20 947	23 529	26 256	28 976	31 714	32 560	30 377	30 793	31 225	95	105	112	120	128	137	145	155	165	168	182	198	214	229	239	241	237	377	367				
Burundi	8 776	9 954	10 855	11 847	12 831	13 896	14 940	16 093	17 539	19 283	21 427	23 763	26 172	28 240	29 595	30 377	30 793	31 225	105	104	112	120	128	137	145	155	165	168	182	198	214	229	239	241	237	377	367				
Cameroon	9 856	11 246	12 357	13 614	14 908	16 346	17 697	19 469	21 500	23 861	26 620	29 723	32 244	34 417	35 669	35 927	35 766	788	875	89	95	102	109	116	123	132	142	154	168	181	194	202	204	202	192	192	151				
Cape Verde	6 23	6 33	6 42	6 52	6 63	6 73	6 83	6 92	7 02	7 12	7 21	7 33	7 44	7 55	7 66	7 77	7 88	7 98	175	174	172	171	169	168	166	163	162	160	159	157	156	155	153	152	151	151	151				
Central African Republic	4 360	4 963	5 450	6 007	6 583	7 221	7 818	8 600	9 498	10 505	11 673	13 054	14 649	16 478	18 565	15 233	15 108	14 985	145	151	157	164	170	176	182	189	196	203	211	220	227	232	240	242	240	364	368	354	345		
Chad	7 671	8 772	9 664	10 681	11 748	12 968	14 130	15 676	17 478	19 609	22 141	24 839	27 657	29 728	31 235	31 920	32 102	32 203	125	139	149	159	169	178	187	196	205	214	223	232	240	242	242	242	242	302	315	315	307	299	
Comoros	4 450	4 44	4 38	4 32	4 27	4 21	4 16	4 10	4 04	3 99	3 93	3 88	3 82	3 78	3 70	3 64	3 58	3 52	82	82	76	72	69	67	64	61	59	56	54	52	50	48	46	44	44	42	42	42			
Cote d'Ivoire	22 577	25 902	28 690	31 619	34 745	38 224	41 525	45 838	50 745	56 368	62 972	69 211	75 200	79 793	81 969	82 309	81 682	80 985	177	196	209	224	239	255	269	289	312	338	366	392	425	440	435	432	432	423	423	423			
DR Congo	62 433	71 788	79 666	88 656	97 636	107 722	116 648	127 986	140 711	155 649	173 837	192 965	212 141	227 985	237 622	243 326	243 885	243 333	108	162	195	208	222	238	251	269	290	315	343	371	396	413	417	413	403	382	382	382			
Equatorial Guinea	3 365	3 413	3 452	3 496	3 542	3 593	3 641	3 705	3 771	3 845	3 925	4 013	4 108	4 208	4 313	4 428	4 552	4 685	145	151	157	164	171	178	185	192	200	208	216	224	232	240	248	256	264	272	270	273	270	263	258
Eritrea	2 272	2 326	2 379	2 440	2 499	2 552	2 596	2 700	2 824	2 968	3 130	3 311	3 512	3 729	3 963	4 178	4 402	4 629	72	73	74	76	77	79	81	82	84	85	86	88	89	91	92	94	95	94	95	94	95		
Ethiopia	81 263	93 143	102 890	113 990	125 906	138 315	150 439	166 228	184 301	205 283	229 786	255 100	279 806	299 420	313 653	314 615	314 563	314 267	152	176	188	201	215	229	242	260	280	304	331	358	383	389	403	398	388	378	378	378	378		
Gabon	1 408	1 415	1 443	1 508	1 605	1 597	1 798	1 954	2 238	2 368	2 799	2 956	3 118	3 287	3 461	3 641	3 827	4 018	153	150	148	151	156	151	166	174	200	210	254	271	285	283	296	325	366	406	406	406			
Gambia	1 763	1 888	1 999	2 115	2 238	2 368	2 505	2 648	2 799	2 956	3 118	3 287	3 461	3 641	3 827	4 018	4 214	4 415	185	189	193	196	200	204	208	212	217	221	225	230	234	239	244	248	253	258	258	258			
Ghana	34 713	35 517	36 338	37 164	37 978	38 771	39 538	40 282	41 013	41 744	42 483	43 234	43 991	44 748	45 495	46 226	46 937	47 628	222	222	220	219	218	217	216	214	213	212	211	210	209	207	206	205	204	203	203	203	203		
Guinea	7 197	7 881	8 651	9 495	10 389	11 314	12 259	13 229	14 233	15 289	16 412	17 612	18 891	20 261	21 736	23 330	25 056	26 932	119	126	132	139	147	154	163	171	180	190	200	211	222	234	246	259	273	287	287	287			
Guinea-Bissau	1 602	1 685	1 774	1 870	1 969	2 070	2 173	2 279	2 388	2 503	2 627	2 760	2 902	3 053	3 211	3 376	3 548	3 727	158	161	164	167	170	174	177	181	184	188	192	195	199	203	207	211	216	220	216	220			
Ivory Coast	26 256	27 619	29 059	30 589	32 197	33 888	35 664	37 528	39 481	41 528	43 669	45 904	48 234	50 664	53 194	55 824	58 554	61 384	177	181	185	189	192	196	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270		
Kenya	21 339	22 422	23 565	24 772	26 045	27 388	28 801	30 289	31 852	33 487	35 194	36 974	38 829	40 762	42 779	44 882	47 076	49 360	112	114	135	160	192	224	268	302	344	382	405	408	419	436	441	406	371	353	353	353			
Lesotho	4 244	4 266	4 279	4 322	4 448	4 696	5 098	5 642	6 269	6 885	7 420	7 838	8 159	8 434	8 750	9 172	9 726	10 383	199	203	207	211	215	219	223	228	232	237	242	246	251	256	261	266	271	276	281	286	291		
Madagascar	24 371	27 638	30 744	33 822	37 049	39 378	40 183	42 543	45 061	47 100	49 371	49 500	51 006	51 573	52 209	51 713	49 990	48 144	258	286	314	343	373	390	389	401	412	412	425	414	416	410	405	391	368	346	346	346			
Malawi	21 062	21 815	22 584	23 386	24 221	25 087	25 986	26 920	27 896	28 924	30 013	31 165	32 381	33 659	34 996	36 389	37 838	39 345	275	277	280	282	285	287	290	292	295	297	300	303	305	308	311	313	316	319	319	319			
Mali	4 429	4 636	4 855	5 086	5 331	5 589	5 861	6 148	6 451	6 770	7 107	7 463	7 837	8 228	8 633	9 051	9 481	9 923	228	232	237	241	246	251	256	261	266	272	277	282	288	294	300	305	312	312	312	312			
Mauritania	293	292	292	292	293	293	292	292	291	291	290	289	288	287	286	285	284	282	282	28	27	27	27	26	26	26	25	25	24	24	24	24	24	24	23	23	23	23	23		
Mozambique	24 543	27 849	30 713	34 146	37 760	41 713	46 032	50 765	55 955	61 506	68 716	76 205	83 998	92 318	92 318	92 318	92 318	92 318	181	201	214	230	245	262	276	297	320	347	378	408	436	455	460	454	443	431	431	431			
Namibia	4 566	5 250	5 794	6 396	7 014	7 707	8 368	9 034	9 720	10 420	11 143	11 888	12 657	13 456	14 281	15 132	16 003	16 893	322	357	381	409	435	465	491	523	568	616	671	726	776	809	817	808	787	767	767	767			
Niger	9 775	10 302	10 867	11 470	12 114	12 799	13 529	14 306	15 129	15 996	16 909	17 868	18 877	19 937	21 056	22 237	23 485	24 802	125	145	155	168	176	188	199	214	230	250	272	294	314	328	344	358	371	371	371	371			
Nigeria	123 208	140 688	164 682	170 544	187 113	205 460	223 968	245 072	272 605	303 484	339 454	376 658	412 948	441 119	457 037	463 603	461 640	460 149	131	145	155	168	176	188	199	214	230	250	272	294	314	328	344	358	371	371	371	371			
Rwanda	12 155	13 027	13 041	12 918	12 945	13 592	14 920	17 366	20 647	24 435	28 421	32 063	35 188	37 928	39 304	38 610	38 573	38 666	167	185	197	212	225	241	254	273	294	319	348	376	402	419									

Table A3.4 Estimated incidence, prevalence and mortality rates (per 100 000 population), Africa, 2000–2007

	Incidence of HIV, TB cases							Prevalence of TB (all forms)							Mortality (excluding HIV*)							Mortality HIV*															
	2000	2001	2002	2003	2004	2005	2006	2007	2000	2001	2002	2003	2004	2005	2006	2007	2000	2001	2002	2003	2004	2005	2006	2007	2000	2001	2002	2003	2004	2005	2006	2007					
Algeria	<1	<1	<1	<1	1	1	1	1	48	49	50	51	52	53	55	56	2	2	2	2	2	2	2	2	2	2	2	2	2	<1	<1	<1	<1	<1	<1		
Angola	34	37	41	44	47	49	51	53	530	335	307	281	318	331	302	294	57	36	23	21	25	26	22	22	18	12	11	9	12	13	7	11	7	11			
Benin	13	13	14	14	14	14	14	14	128	129	137	139	134	135	134	135	12	12	13	13	13	13	12	12	5	6	6	6	6	6	6	6	6	6			
Botswana	439	478	512	534	538	530	515	500	445	497	535	566	598	599	621	622	22	26	28	33	35	35	37	62	80	94	121	127	130	152	157	157	157	157			
Burkina Faso	58	62	65	66	65	62	58	55	338	368	398	419	426	421	411	403	34	37	40	42	43	43	42	41	29	32	34	34	33	31	29	28	34	34			
Burundi	101	103	104	102	96	89	80	73	555	522	581	619	639	654	667	647	46	53	60	64	66	68	69	68	41	45	46	46	43	41	38	34	34	34			
Cameroon	77	83	88	91	91	89	86	83	228	243	240	227	228	218	201	195	20	21	19	19	19	16	16	15	36	38	37	34	33	28	26	24	24	24			
Cape Verde	124	136	146	153	155	153	149	145	380	283	374	370	367	278	285	280	42	32	41	41	40	32	32	31	66	68	67	80	82	72	63	62	62	62			
Central African Republic	66	74	81	85	87	86	84	82	420	460	502	573	548	518	505	495	43	48	51	58	56	57	52	51	30	33	39	45	43	40	39	39	39	39			
Chad	127	133	138	140	138	133	128	122	313	354	402	509	477	462	511	483	21	29	31	51	49	51	53	51	22	28	35	48	42	40	43	40	43	40			
Cote d'Ivoire	179	190	199	202	197	187	175	163	472	511	561	604	613	587	587	562	42	52	51	54	56	57	56	55	83	98	94	94	91	88	80	73	73	73			
DR Congo	20	21	23	24	24	24	24	23	692	643	697	708	710	702	682	666	65	70	77	77	76	75	72	8	9	10	10	10	10	10	10	10	10	10	10		
Equatorial Guinea	65	71	77	80	81	79	76	74	274	441	470	490	370	366	358	469	22	45	48	50	35	35	34	44	22	38	41	43	34	33	32	32	32	32	32		
Eritrea	12	13	13	14	14	15	15	15	114	111	118	110	122	127	133	134	12	11	12	11	12	13	13	13	12	2	2	2	2	3	3	3	3	3	3		
Ethiopia	70	75	79	81	81	79	76	74	486	539	569	601	613	612	604	579	53	59	62	66	67	67	66	64	26	29	30	31	30	30	30	30	30	30	30		
Gabon	94	104	112	114	121	134	152	170	434	249	302	299	288	332	358	379	38	20	28	26	23	32	34	35	42	13	9	9	10	10	12	12	12	12			
Gambia	23	25	26	27	28	29	30	30	491	499	335	343	341	366	389	404	53	54	37	38	38	40	42	43	12	13	9	9	9	9	9	9	9	9	9		
Ghana	36	36	35	34	33	33	32	32	368	358	359	358	359	357	355	353	38	38	38	38	38	38	37	37	17	16	16	16	15	15	15	15	15	15	15	15	
Guinea	27	31	35	39	43	47	52	55	332	346	363	380	391	425	426	448	35	36	38	39	41	43	44	46	12	13	15	17	19	21	22	24	24	24			
Guinea-Bissau	35	38	40	41	42	43	44	45	273	276	305	296	287	283	270	276	30	30	32	31	27	29	29	30	13	13	16	16	16	16	16	16	16	16	16	16	
Kenya	240	235	235	236	230	205	182	169	393	384	392	402	410	388	340	319	29	29	30	31	32	32	28	26	84	76	73	69	65	59	45	39	45	39	45		
Lesotho	416	434	462	479	486	483	482	481	356	370	399	408	414	421	408	568	16	17	20	19	16	18	18	18	60	63	72	70	77	97	67	67	67	67			
Liberia	40	41	42	44	45	48	50	54	435	437	382	429	370	416	393	398	46	46	40	46	46	43	40	41	19	19	17	19	17	20	20	20	20	20	20		
Madagascar	3	4	4	5	5	6	6	6	359	371	382	375	384	408	400	417	39	40	42	41	42	44	43	45	1	2	2	2	2	2	2	2	2	2	2		
Malawi	297	289	289	284	279	268	252	235	362	350	358	353	346	342	324	305	23	23	24	23	23	23	22	21	102	96	99	96	93	93	87	81	81	81	81		
Mali	49	51	53	54	54	55	55	55	571	573	572	578	584	589	593	599	61	60	61	61	62	62	63	63	24	25	26	27	27	27	27	27	27	27	27	27	
Mauritania	20	24	27	29	31	32	33	34	619	624	632	642	644	644	644	644	67	68	68	69	64	61	60	60	11	13	15	16	12	15	15	15	15	15	15		
Mauritius	<1	<1	<1	<1	<1	<1	<1	<1	39	42	40	39	38	39	39	39	3	4	4	3	3	3	3	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Mozambique	149	170	189	203	210	211	208	204	499	535	556	569	567	551	528	504	47	50	51	52	51	50	48	45	64	74	81	87	89	88	86	86	86	86	86		
Namibia	417	461	501	528	538	535	524	516	481	506	544	560	572	570	556	532	27	26	30	26	32	32	32	29	60	57	69	71	77	86	91	77	86	91	73		
Niger	12	13	14	15	15	16	16	16	278	280	288	275	287	285	289	292	30	30	31	30	31	31	31	31	5	6	6	6	6	7	7	7	7	7	7	7	
Nigeria	70	77	83	88	89	88	86	83	489	526	563	575	573	563	543	521	50	54	57	59	59	58	55	53	36	39	43	44	44	43	42	42	42	42	42	42	
Rwanda	170	177	182	182	177	167	157	149	442	503	549	581	607	607	595	590	38	46	50	54	57	58	57	57	76	84	87	87	85	80	73	70	70	70	70		
Sao Tome & Principe	—	—	—	—	—	—	—	—	272	268	261	266	259	259	252	240	30	28	28	27	28	27	26	26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Senegal	11	14	16	19	22	26	30	34	420	430	443	441	454	456	461	468	45	46	46	47	46	49	49	49	5	6	7	6	10	11	13	13	13	13	13		
Seychelles	—	—	—	—	—	—	—	—	52	53	42	66	52	57	56	55	5	5	4	5	4	5	5	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sierra Leone	56	64	72	81	90	98	106	114	675	696	743	784	830	866	902	941	71	74	78	82	86	90	94	98	26	29	33	37	42	45	47	45	47	45	47	50	
South Africa	394	479	555	613	650	673	685	691	515	581	586	649	676	707	690	692	30	35	33	36	37	39	38	38	153	178	161	191	196	210	194	193	193	193	193	193	
Swaziland	625	722	789	857	901	914	938	962	740	832	693	739	776	788	801	812	45	50	36	38	40	40	41	40	317	365	201	202	237	268	282	277	277	277	277	277	
Togo	108	110	112	114	116	117	119	121	656	669	701	693	702	713	726	750	66	68	71	70	71	72	73	76	56	57	59	59	59	59	59	59	59	59	59	59	
Uganda	171	173	173	168	162	155	147	139	364	367	383	380	373	364	353	337	30	30	32	32	32	32	31	30	29	59	58	60	59	57	55	52	49	49	49	49	
UR Tanzania	168	171	178	176	165	153	139	128	391	411	447	476	472	469	450	426	34	37	41	44	44	44	44	43	69	67	69	70	66	63	57	52	52	52	52	52	
Zambia	418	435	438	452	431	407	379	352	658	680	517	478	468	453	422	387	47	50	34	30	30	30	28	25	208	224	122	108	107	100	100	89	89	89	89		
Zimbabwe	541	580	612	629	623	602	571	539	479	523	571	632	652	680	699	714	26	28	32	38	41	45	48	52	159	168	184	215	212	218	220	213	213	213	213	213	
AFR	123	133	142	148	149																																

Table A3.6 DOTS coverage, case notifications and case detection rates, Africa, 2007

	DOTS coverage %		New pulmonary TB cases reported from DOTS services				TB cases reported from DOTS services				Re-treatment cases				Estimated incidence and case detection rate				Promotions												
	number	rate	ss-	unk.	ss+	unk.	new	re-treat	Other	After failure	After default	Other re-treat	Other	lab. confirm.	number	rate	ss-	unk.	ss+	unk.	new	re-treat	ss-	unk.	ss+	unk.	new	re-treat	ss-	unk.	ss+
Algeria	63	41 299	63	1 807	10 576	0	547	103	11	0	8 608	21 422	0	2 422	19 156	8 577	109	98	82	39	49	8	59	52	7	8	82	39	49	8	
Angola	100	21 922	243	14 733	2 911	2 226	446	645	0	0	0	0	0	0	48 777	21 041	80	102	55	52	7	7	59	52	7	8	59	52	7	8	
Benin	100	7 622	405	3 002	1 305	0	223	40	129	305	3 002	0	0	0	13 761	5 251	54	57	49	39	17	17	49	39	17	17	49	39	17	17	
Botswana	100	3 960	27	2 614	18	577	193	39	51	0	2 614	0	0	0	33 437	14 227	11	18	82	66	13	11	82	66	13	11	82	66	13	11	
Burkina Faso	100	6 284	74	3 595	42	1 663	34	25	0	0	3 595	0	0	0	31 225	13 432	20	27	81	57	27	4	81	57	27	4	81	57	27	4	
Burundi	100	24 062	130	13 220	71	6 752	110	417	0	0	13 220	0	0	0	35 556	14 465	65	91	66	55	13	6	66	55	13	6	66	55	13	6	
Cape Verde	100	274	52	158	30	63	3	0	0	0	190	0	0	0	798	359	33	44	71	58	14	11	71	58	14	11	71	58	14	11	
Central African Republic	33	5 879	55	2 513	2 378	907	217	104	0	0	2 513	0	0	0	32 203	13 606	18	18	51	43	15	6	51	43	15	6	51	43	15	6	
Comoros	60	9 002	239	3 552	94	2 938	31	88	0	0	3 552	0	0	0	15 190	6 376	58	56	55	39	25	4	55	39	25	4	55	39	25	4	
Cote d'Ivoire	100	23 033	120	14 071	73	3 009	4 988	235	115	0	14 071	0	0	0	80 995	33 308	27	42	82	61	22	6	82	61	22	6	82	61	22	6	
DR Congo	100	99 810	159	66 099	10 988	18 737	4 006	1 000	921	485	66 099	0	0	0	245 333	108 957	39	61	86	66	19	6	86	66	19	6	86	66	19	6	
Equatorial Guinea	93	3 641	75	694	14	2 086	753	0	108	11	76	0	0	0	4 629	2 009	76	35	25	19	21	6	25	19	21	6	25	19	21	6	
Eritrea	95	128 644	155	38 040	46	43 500	45 269	0	2 035	262	637	0	0	0	314 267	135 311	40	28	47	30	35	2	47	30	35	2	47	30	35	2	
Ethiopia	31	3 766	283	1 462	110	1 678	409	9	168	0	1 462	0	0	0	5 408	2 208	67	66	47	39	11	9	47	39	11	9	47	39	11	9	
Gambia	100	1 916	112	1 238	72	541	91	0	46	19	23	62	0	0	4 415	1 936	42	64	70	65	5	7	70	65	5	7	70	65	5	7	
Ghana	100	12 743	54	7 429	32	3 759	1 092	0	463	127	91	0	0	0	47 632	20 694	26	36	66	58	9	5	66	58	9	5	66	58	9	5	
Guinea	60	9 411	100	6 199	66	1 167	1 708	0	337	145	170	0	0	0	26 928	11 698	34	53	84	66	18	7	84	66	18	7	84	66	18	7	
Guinea-Bissau	100	106 438	284	38 360	102	49 869	18 032	0	177	3 285	1 841	5 159	0	0	3 727	1 602	80	72	43	36	17	9	43	36	17	9	43	36	17	9	
Kenya	100	2 319	115	788	39	904	529	0	98	13	12	177	0	0	12 792	4 787	17	16	47	34	23	12	47	34	23	12	47	34	23	12	
Lesotho	100	21 857	111	15 344	78	1 321	3 973	0	1 219	165	335	84	0	0	10 393	4 474	42	69	92	70	18	8	92	70	18	8	92	70	18	8	
Madagascar	100	24 461	176	7 608	55	10 704	5 195	0	954	60	25	1 753	0	0	49 360	22 092	42	69	42	31	21	11	42	31	21	11	42	31	21	11	
Malawi	100	5 166	42	3 894	32	391	674	0	207	145	71	0	0	0	39 345	17 021	13	23	91	75	13	8	91	75	13	8	91	75	13	8	
Mali	82	2 969	95	1 714	55	494	603	0	158	14	42	0	0	0	9 923	4 359	28	39	78	58	20	7	78	58	20	7	78	58	20	7	
Mauritania	100	106	8	86	7	12	4	0	4	0	2	0	0	0	282	125	36	69	88	81	4	6	88	81	4	6	88	81	4	6	
Mauritius	100	37 651	176	18 214	85	13 064	5 020	0	1 353	205	188	0	0	0	92 295	37 165	39	49	55	48	13	5	55	48	13	5	55	48	13	5	
Mozambique	100	15 205	733	5 091	245	4 948	2 661	1 055	1 430	139	188	0	0	0	15 905	6 088	87	84	51	33	18	11	51	33	18	11	51	33	18	11	
Namibia	100	9 276	65	5 773	41	1 676	1 349	0	478	128	188	0	0	0	24 802	10 928	35	53	78	62	15	8	78	62	15	8	78	62	15	8	
Niger	91	82 417	56	44 016	30	32 088	4 044	0	2 269	835	1 303	1 686	0	0	460 149	194 731	17	23	58	53	5	7	58	53	5	7	58	53	5	7	
Nigeria	100	7 638	79	4 053	42	1 589	1 663	0	333	115	30	0	0	0	38 606	15 926	19	25	72	53	22	6	72	53	22	6	72	53	22	6	
Rwanda	100	10 297	83	7 108	57	1 620	1 109	0	460	130	253	0	0	0	33 613	14 706	29	48	81	69	11	8	81	69	11	8	81	69	11	8	
Senegal	100	9 418	161	5 347	91	3 197	706	0	168	40	165	0	0	0	33 662	14 478	27	37	63	57	7	4	63	57	7	4	63	57	7	4	
Seychelles	100	3 153	15	649	135	604	279	105	631	45 738	0	28 342	3 433	7 061	460 600	173 710	62	78	56	43	15	19	56	43	15	19	56	43	15	19	
Sierra Leone	100	8 686	779	2 764	242	3 956	1 833	0	335	204	67	477	0	0	13 674	5 055	63	55	41	31	21	11	41	31	21	11	41	31	21	11	
South Africa	100	2 436	37	1 796	27	211	356	0	73	23	34	0	0	0	28 263	11 921	8	15	89	74	15	5	89	74	15	5	89	74	15	5	
Swaziland	100	40 909	132	21 303	69	13 713	4 460	0	1 433	92	703	0	0	0	101 785	41 985	39	51	61	52	11	5	61	52	11	5	61	52	11	5	
Togo	100	59 371	147	24 520	61	20 521	12 526	0	1 804	92	207	2 422	0	0	120 291	48 508	48	51	54	41	21	7	54	41	21	7	54	41	21	7	
Uganda	100	46 320	389	13 378	112	21 189	10 015	0	1 738	109	595	3 391	0	0	60 337	22 956	74	58	39	29	22	12	39	29	22	12	39	29	22	12	
UR Tanzania	100	40 277	302	10 583	79	21 964	6 361	0	1 349	12	596	529	0	0	104 400	39 764	37	27	33	26	16	6	33	26	16	6	33	26	16	6	
Zambia	100	1 251 642	188	561 091	71	408 936	223 320	1 184	57 111	12 086	16 908	45 171	792	668 442	2 879 434	1 187 713	41	47	58	45	18	10	58	45	18	10	58	45	18	10	
Zimbabwe	100	40 277	302	10 583	79	21 964	6 361	0	1 349	12	596	529	0	0	104 400	39 764	37	27	33	26	16	6	33	26	16	6	33	26	16	6	
AFR	93	1 251 642	188	561 091	71	408 936	223 320	1 184	57 111	12 086	16 908	45 171	792	668 442	2 879 434	1 187 713	41	47	58	45	18	10	58	45	18	10	58	45	18	10	

ss+ indicates sputum smear-positive; ss-, sputum smear-negative; unk., sputum smear result unknown; re-treat., re-treatment; pulm. lab. confirm., pulmonary case confirmed by positive smear or culture. See Explanatory notes for further details. Data can be downloaded from www.who.int/tb

Table A3.7 Laboratory services, collaborative TB/HIV activities and management of MDR-TB, Africa, 2006–2007

	Laboratory services, 2007				Collaborative TB/HIV activities						Management of MDR-TB, 2007				
	Number of labs working with NTP		Smear labs included in EOA	TB pts tested for HIV	2006			2007			Lab-confirmed MDR	DST in new cases	MDR in new cases	Re-treatment DST	Re-treatment MDR
	smear	culture			DST	TB pts HIV-positive	TB pts CPT	TB pts ART	TB pts HIV-positive	TB pts CPT					
Algeria	246	48	3	20	3 318	494	337	213	3 800	450	60	139	1	14	8
Angola	130	1	1	50	5 046	3 590	597	287	2 665	653	267	26	0	0	0
Benin	50	1	1	50	2 624	739	597	287	13 258	5 707	1 044	0	0	0	0
Botswana	106	0	0	106	8 639	3 363	384	117	205	0	17	0	0	0	0
Burkina Faso	168	1	0	143	270	8	8	0	0	0	0	0	0	0	0
Burundi	208	3	2	206	0	0	0	0	0	0	0	0	0	0	0
Cape Verde	16	0	0	1	116	2	0	0	0	0	0	0	0	0	0
Central African Republic	47	0	0	0	5 810	2 130	1 185	994	11 264	4 370	1 153	0	0	0	0
Chad	24	0	0	1	3 931	188	170	120	14 484	2 129	4 119	15	37	15	123
Comoros	96	1	1	95	3 255	1 295	1 108	354	20 723	6 342	2 658	145	13	1	296
Cote d'Ivoire	1 205	1	1	1 023	645	645	645	0	719	0	12	0	0	0	0
DR Congo	12	0	0	0	550	142	0	23	0	0	0	0	0	0	0
Equatorial Guinea	64	0	0	0	2 136	711	485	99	5 695	1 621	275	7	0	0	58
Ethiopia	833	1	1	832	151	85	85	43	870	140	140	36	9	1	34
Gabon	12	0	0	0	69 337	36 136	50 916	15 447	91 841	43 954	16 324	82	0	0	4 403
Gambia	220	3	3	160	1 470	1 228	641	199	1 952	1 479	337	0	0	0	0
Ghana	52	3	1	31	688	101	0	0	0	0	0	5	103	1	29
Guinea-Bissau	930	5	1	37	17 253	12 064	11 244	4 348	22 744	15 491	4 765	12	0	0	854
Kenya	146	3	1	140	478	70	0	0	1 362	278	0	11	0	2	6
Lesotho	72	2	1	72	100	5	4	0	104	63	54	14	0	0	6
Liberia	1	1	1	0	8 631	6 079	1 058	2 789	26 548	12 563	4 105	163	66	14	308
Madagascar	252	1	1	252	4 653	3 117	3 117	0	8 186	4 804	0	291	0	0	149
Malawi	34	1	1	34	7 422	1 568	0	0	27 849	6 275	1 853	45	32	4	41
Mali	163	0	0	163	6 300	2 361	1 124	789	7 152	2 673	1 641	102	0	0	0
Mauritania	794	2	1	347	153	3	0	0	2 381	316	235	10	170	7	30
Mozambique	183	1	1	183	2 080	174	105	0	3 621	414	0	0	0	0	0
Niger	1	0	0	0	110 235	58 249	57 053	23 344	136 247	87 764	31 040	7 350	0	0	0
Nigeria	86	3	3	55	1 847	1 476	1 298	287	5 804	4 316	4 875	110	0	0	320
Rwanda	51	1	1	52	134	17	17	0	134	17	17	1	16	1	21
Senegal	716	3	2	716	11 590	6 638	3 584	894	15 844	9 526	380	169	0	0	500
Sierra Leone	717	3	1	716	1 613	841	418	188	31 305	14 669	10 541	0	0	0	27
South Africa	156	3	3	20	5 485	3 514	2 194	2 723	23 574	16 240	6 434	27	0	0	0
Swaziland	180	1	1	0	0	0	0	0	5 252	4 373	0	0	0	0	0
Togo	8 547	110	45	4 468	285 826	147 406	137 760	53 262	491 755	250 546	186 941	8 772	523	47	7 043
Tanzania															
Zambia															
Zimbabwe															
AFR	8 547	110	45	4 468	285 826	147 406	137 760	53 262	491 755	250 546	186 941	8 772	523	47	7 043

ART indicates antiretroviral therapy; CPT, co-trimoxazole preventive therapy; EOA, external quality assurance; HIV+, HIV-positive; pts, patients. See Explanatory notes for further details. Data can be downloaded from www.who.int/tb

Table A3.8 Treatment outcomes, Africa, 2006 cohort

	New smear-positive cases, DOTs										New smear-positive cases, non-DOTs										Smear-positive re-treatment cases, DOTs												
	Number of cases		% of notified		Compl- eted		% of cohort		Trans- ferred		% Success		Number of cases		% of notified		Compl- eted		% of cohort		Trans- ferred		% Success		Number		% of cohort		Trans- ferred		% Success		
	Notified	Registered	Registered	Notified	Cured	Died	Failed	Default	Not eval.	Success	Notified	Registered	Registered	Notified	Cured	Died	Failed	Default	Not eval.	Success	Notified	Registered	Registered	Notified	Cured	Died	Failed	Default	Not eval.	Success			
Algeria	8 538	8 285	97	86	5	2	0	3	4	1	76	18	91										607	65	14	4	2	9	6	0	79		
Angola	15 915	21 499	135	11	7	1	0	4	1	76	18																						
Benin	2 943																																
Botswana	3 252	3 463	106	43	30	7	2	7	6	6	72																						
Burkina Faso	2 660	2 660	100	67	6	12	8	5	1	0	73																						
Burundi	3 119	3 233	104	66	16	4	1	11	1	0	83																						
Cameroon	12 870	13 811	107	64	10	6	1	13	4	2	74																						
Cape Verde	131	131	100	66	13	4	2	6	5	4	79																						
Central African Republic	4 365											83																					
Chad	0	2 766			35	19	6	2	30	8	0	54																					
Comoros	67																																
Conogo	3 340	3 340	100	41	12	1	1	26	1	18	53																						
Cote d'Ivoire	12 867	12 868	100	61	12	8	2	10	6	2	73																						
DR Congo	63 488	63 488	100	82	5	6	1	5	2	0	86																						
Equatorial Guinea																																	
Eritrea	680	735	108	80	9	6	1	1	2	0	80																						
Ethiopia	36 674	36 674	100	69	15	5	1	5	5	1	84																						
Gabon	1 145	1 145	100	34	13	5	1	44	1	3	46																						
Gambia	1 209	1 812	150	56	2	5	1	2	1	33	58																						
Ghana	7 786	7 786	100	71	6	9	2	6	6	0	76																						
Guinea	5 903	6 075	103	66	9	4	1	9	10	0	75																						
Guinea-Bissau	1 030																																
Kenya	39 154	39 154	100	73	12	5	0	7	3	0	85																						
Lesotho	4 024	725	18	56	11	12	2	6	3	11	66																						
Liberia	2 906																																
Madagascar	15 613	15 668	100	73	5	5	1	11	4	0	78																						
Malawi	8 166	8 166	100	77	1	12	1	3	2	3	78																						
Mali	3 802	3 803	100	70	6	11	4	6	2	1	76																						
Mauritania	1 486	1 652	111	31	9	2	0	12	9	35	41																						
Mauritius	85	157	185	46	46	3	0	5	0	0	92																						
Mozambique	18 275	18 275	100	82	1	10	1	5	2	0	83																						
Namibia	5 356	5 177	97	64	12	7	3	8	6	0	76																						
Niger	5 279	5 228	99	63	14	6	2	11	5	0	77																						
Nigeria	39 903	39 903	100	65	11	6	2	10	2	4	76																						
Rwanda	4 220	4 168	99	77	9	5	2	2	3	1	86																						
Sao Tome & Principe	0	0																															
Senegal	6 882	6 882	100	69	7	4	2	10	8	0	76																						
Seychelles																																	
Sierra Leone	4 629	4 660	101	75	12	5	1	6	1	0	87																						
South Africa	131 089	139 516	106	63	11	7	2	9	5	3	74																						
Swaziland	2 539	2 536	100	27	15	6	4	13	16	16	43																						
Togo	2 131	2 131	100	63	4	11	2	17	2	0	67																						
Uganda	20 364	20 364	100	29	41	6	1	13	5	7	70																						
UR Tanzania	24 724	24 724	100	80	5	8	0	3	4	0	85																						
Zambia	14 025	14 025	100	77	8	7	1	3	5	0	85																						
Zimbabwe	12 718	16 205	127	54	6	8	0	5	8	19	60																						
AFR	555 361	562 084	101	65	10	6	1	8	4	5	75	5 703	36	1	94	0	3	3	0	0	0	0	94	88 957	49	17	7	5	11	5	66		

Not eval. indicates not evaluated (percentage of registered cases for which outcomes were not recorded); success, sum of cured and completed; cases registered, the denominator for calculating treatment outcomes. The number of cases registered for treatment in 2006 is used as the denominator for calculating treatment outcomes unless it is less than the sum of outcomes, in which case the sum of outcomes is used. If the number of cases registered is not reported, then the number of cases notified in 2006 is used, or the sum of outcomes if the latter is greater. Data can be downloaded from www.who.int/tb

Table A3.9 DOTS re-treatment outcomes, Africa, 2006 cohort

	Release DOTS % of cohort						After failure DOTS % of cohort						After default DOTS % of cohort														
	Number regist'd	Compl- eted	Died	Failed	Trans- ferred	Not eval.	% Success	Number regist'd	Compl- eted	Died	Failed	Trans- ferred	Not eval.	% Success	Number regist'd	Compl- eted	Died	Failed	Trans- ferred	Not eval.	% Success						
Algeria	480	69	14	4	2	6	5	0	83																		
Angola																											
Benin																											
Botswana	160	77	4	12	3	4	0	0	81																		
Burkina Faso																											
Burundi	1 272	50	12	10	3	20	6	0	62																		
Cameroun																											
Cape Verde																											
Central African Republic																											
Chad																											
Comoros	281	37	10	0	2	33	1	17	47																		
Cote d'Ivoire	3 872	74	3	8	3	10	2	0	77																		
DR Congo																											
Equatorial Guinea																											
Eritrea																											
Ethiopia																											
Gabon																											
Gambia																											
Ghana	487	46	17	10	3	7	3	13	63																		
Guinea	288	69	13	4	3	3	8	0	82																		
Guinea-Bissau	3 945	71	8	7	1	8	5	0	79																		
Kenya	81	44	16	20	0	1	1	17	60																		
Lesotho																											
Liberia																											
Madagascar	1 691	69	4	7	3	12	6	0	73																		
Malawi	1 006	78	2	12	1	2	2	2	80																		
Mali	220	71	4	9	4	9	2	2	75																		
Mauritania	280	25	7	1	2	11	6	48	33																		
Mauritius	6	50	50	0	0	0	0	0	100																		
Mozambique	1 435	65	2	11	1	6	14	0	67																		
Namibia	1 353	46	15	13	9	11	6	0	61																		
Niger	475	61	16	6	4	7	6	0	77																		
Nigeria																											
Rwanda	359	70	6	8	7	3	4	2	76																		
Sao Tome & Principe	0																										
Senegal	475	61	5	5	4	9	6	8	66																		
Seychelles																											
Sierra Leone	130	75	10	5	2	7	0	0	85																		
South Africa	19 930	54	4	5	15	17	4	0	58																		
Swaziland	346	19	12	12	8	8	14	27	31																		
Togo																											
Uganda	1 357	33	43	8	1	10	4	0	76																		
UR Tanzania	1 817	75	4	12	1	4	4	0	79																		
Zambia	1 865	71	11	9	1	3	5	0	61																		
Zimbabwe	929	54	3	17	1	7	7	12	57																		
AFR	44 530	60	7	7	8	12	5	1	66	3 798	50	12	9	8	13	5	3	62	9 409	56	18	5	4	7	6	5	74

Not eval. indicates not evaluated (percentage of registered cases for which outcomes were not recorded); success, sum of cured and completed; cases regist'd, the denominator for calculating treatment outcomes. The number of cases registered for treatment in 2006 is used as the denominator for calculating treatment outcomes unless it is less than the sum of outcomes, in which case the sum of outcomes is used. If the number of cases registered is not reported, then the number of cases notified in 2006 is used, or the sum of outcomes if the latter is greater. Data can be downloaded from www.who.int/tb

Table A3.10. DOTS treatment success and case detection rates, Africa, 1994–2007

	DOTS new smear-positive treatment success (%)																DOTS new smear-positive case detection rate (%)																	
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007						
Algeria	86	86	87	87	84	89	90	90	90	91	91	87	91	98	84	82	82	81	86	86	86	86	84	81	82	83	86	86						
Angola	76	73	72	70	73	77	77	77	77	80	81	83	87	102	70	87	89	90	72	73	66	67	68	58	58	59	61	57						
Benin	72	67	70	70	47	71	77	78	71	77	65	70	72	18	12	21	16	17	16	16	14	13	13	14	16	19	18	27						
Botswana	44	45	45	67	74	74	80	80	79	79	78	79	83	83	20	25	30	19	36	36	30	25	26	26	25	24	24	18						
Burkina Faso																																		
Burundi																																		
Cameroon																																		
Cape Verde																																		
Central African Republic																																		
Chad	63	47			64		57	61		72	78	69	54		36	14			35		49	7	5	4	35	30	37	44						
Comoros	94	90			85		93	93	92	96	94	94	91		54	57			54		49	53	42	28	38	48	42							
Congo	69				61		69	66	71	69	63	28	53		72				90		83	88	57	65	57	52	56							
Cote d'Ivoire	17	68	56	61	62	63	73	67	72	71	75	73	73		53	53	49	46	44	34	9	34	34	34	34	34	38	42						
DR Congo	71	80	48	64	70	69	78	77	78	83	85	85	86		40	47	43	53	50	47	49	47	53	59	60	59	61							
Equatorial Guinea	89	89	77	82	51					51					86	76	75	86																
Eritrea																																		
Ethiopia	74	61	73	72	74	76	80	76	76	70	79	78	84		15	20	22	24	25	31	30	30	31	31	28	27	28							
Gabon																																		
Gambia	74	76	80	70	74	75	76	76	76	76	76	86	87		74	67	70	73																
Ghana	54	51	48	59	55	50	56	60	66	72	73	76	76		16	14	32	33	31	38	41	41	40	37	37	38	36							
Guinea	78	78	75	74	73	74	68	74	72	75	72	72	75		45	53	51	54	53	55	53	52	51	53	54	55	53							
Guinea-Bissau																																		
Kenya	73	75	77	65	77	78	80	80	79	80	80	82	85		58	60	56	60	60	60	60	61	63	65	68	70	72							
Kyrgyzstan	56	47	71	63	69	71	52	70	69	73	66	63	66		63	74	87	78	44															
Liberia																																		
Lesotho	22	71	68	71	69	71	73	70	72	73	71	74	78		52	65	65	67	71	71	67	65	71	71	65	74	69							
Madagascar																																		
Malawi																																		
Mali	68	59	65	62	70	68	50	50	50	65	71	75	76		17	19	21	20	19	17														
Mauritania																																		
Mauritius	96				91	87	93	93	92	87	89	86	92		86				83	93	88	66	67	77	92	87	68	69						
Mozambique	67	39	54	67	71	75	78	78	76	77	79	83	83		59	55	53	53	50	47	45	45	45	46	47	49	49							
Namibia																																		
Niger																																		
Nigeria	65	49	32	73	73	75	79	79	79	78	73	75	76		11	11	11	11	12	12	12	12	11	15	17	18	20							
Rwanda																																		
Sao Tome & Principe																																		
Senegal	38	44	44	55	48	58	52	53	66	70	74	76	76		62	65	57	55	48	53	54	49	53	50	50	49	48							
Seychelles	89	100	100	100	90	82	67	45	100	92	82	86	87		82	97	67	67	83	90	68	38	100	62	62	62	62							
Sierra Leone	75	69	74	79	75	77	80	81	83	82	86	87	87		29	41	40	36	63	60	71	77	75	72	77	78								
South Africa																																		
Togo	45	60	65	66	69	76	65	68	67	70	71	74	74		13	13			12	11	12	12	4	13	16	17	19							
Tanzania																																		
Uganda																																		
UR Tanzania	80	73	76	77	76	78	78	81	80	81	81	82	85		61	60	57	58	56	52	51	47	47	48	47	48	51							
Zambia																																		
Zimbabwe																																		
AFR	59	62	57	63	70	69	72	71	73	73	74	76	75		23	26	30	35	37	36	37	43	45	46	46	47								

Treatment success, sum of cured and completed; DOTS new smear-positive case detection rate, notified new smear-positive cases divided by estimated incident cases. Figures for all years are updated as new information becomes available and/or techniques are refined, so they may differ from those published previously. Data can be downloaded from www.who.int/tb

Table A3.11 New smear-positive case notification by age and sex, DOTS and non-DOTS, Africa, 2007

	Male					Female					All					Male/female ratio				
	0-14	15-24	25-34	35-44	55-64	65+	0-14	15-24	25-34	35-44	55-64	65+	0-14	15-24	25-34		35-44	45-54	55-64	65+
Algeria	95	1 388	1 749	1 813	494	296	407	1 031	811	1 335	273	247	381	204	2 419	2 560	1 148	767	543	798
Angola	484	2 824	3 197	2 255	1 357	699	465	703	2 943	2 721	1 812	1 041	554	1 187	5 767	5 918	4 067	2 398	1 253	832
Benin	25	251	535	442	263	120	82	46	347	430	254	123	47	71	598	965	696	386	167	119
Botswana	8	233	442	429	303	177	145	29	157	243	187	129	88	37	390	685	616	432	284	190
Burkina Faso	26	425	637	542	372	176	88	55	360	392	276	140	67	81	785	1 029	818	512	244	126
Burundi	121	1 382	2 613	1 874	1 011	480	307	152	1 443	1 963	985	483	248	273	2 835	4 576	2 859	1 484	728	455
Cape Verde	0	24	30	26	18	4	6	0	0	18	17	5	3	0	42	47	31	19	7	12
Central African Republic																				
Chad																				
Comoros	28	351	635	482	233	78	63	45	411	608	334	153	71	73	762	1 243	816	386	149	123
Cote d'Ivoire	173	1 576	2 705	1 817	981	532	429	225	1 349	1 973	1 126	586	354	398	2 925	4 678	2 943	1 577	886	664
DR Congo	1 343	6 485	9 548	7 925	5 341	2 801	1 752	1 842	7 130	8 415	5 939	4 127	2 332	3 165	13 615	17 963	13 864	9 468	5 153	2 861
Equatorial Guinea																				
Eritrea	21	56	85	73	62	53	44	2	70	89	56	47	21	23	126	174	129	109	74	59
Ethiopia	1 055	6 522	6 114	3 545	2 038	1 051	559	1 229	5 426	5 507	2 880	1 429	502	2 284	11 948	11 621	6 395	3 467	1 553	772
Gabon																				
Gambia	66	586	1 164	1 239	861	477	506	75	453	667	584	371	183	141	1 049	1 831	1 803	1 232	680	713
Ghana	46	901	1 315	936	503	240	204	76	631	613	367	207	106	122	1 532	1 928	1 303	710	346	283
Guinea																				
Guinea-Bissau	474	4 752	8 132	4 959	2 361	1 084	601	599	4 594	5 979	2 774	1 180	542	1 073	9 346	14 111	7 733	3 541	1 626	930
Kenya	6	32	135	73	87	52	28	4	78	121	106	40	13	10	110	256	179	127	65	41
Lesotho																				
Liberia	196	1 473	2 353	2 097	1 671	823	438	223	1 456	1 810	1 354	880	378	419	2 929	4 163	3 451	2 551	1 201	630
Madagascar	61	614	1 454	954	473	233	158	109	768	1 497	715	342	146	170	1 382	2 951	1 669	815	379	242
Malawi	29	369	696	570	422	291	213	30	263	385	258	160	113	59	632	1 081	828	582	404	308
Mali	14	206	355	281	144	139	83	21	103	152	92	64	38	42	35	309	507	353	208	177
Mauritania	0	9	9	12	15	9	6	0	0	4	7	3	5	0	13	16	15	20	13	9
Mauritius																				
Mozambique	57	370	1 018	786	346	149	120	69	417	826	513	242	102	76	126	787	1 844	1 299	588	251
Namibia	40	571	1 380	958	577	405	249	57	287	412	323	248	157	109	97	858	1 792	1 281	825	562
Niger	503	4 251	8 541	5 776	3 767	1 853	1 341	685	4 522	5 944	3 088	1 926	1 194	625	1 186	8 773	14 485	8 864	5 693	3 047
Nigeria	51	523	805	556	352	168	91	81	477	488	245	131	70	35	132	1 000	1 273	801	483	238
Rwanda	0	4	12	8	4	4	0	0	0	6	3	3	5	0	13	18	11	7	9	0
Sao Tome & Principe	57	1 053	1 722	875	549	329	251	73	761	603	378	241	121	95	130	1 814	2 325	1 253	780	450
Senegal																				
Seychelles																				
Sierra Leone	45	538	1 032	797	520	258	172	74	398	568	488	255	143	119	936	1 600	1 265	775	401	251
South Africa	1 909	10 514	21 948	20 076	12 164	4 792	2 021	2 511	14 410	21 049	13 190	6 245	2 954	4 420	24 824	47 897	33 268	18 409	7 766	3 832
Swaziland	7	223	479	344	182	97	27	17	411	576	232	88	39	18	634	1 055	576	280	86	45
Togo	156	309	327	170	73	66	57	17	184	236	150	67	35	24	340	565	428	237	108	95
Uganda	234	1 741	4 406	3 551	1 681	766	505	343	1 874	3 008	1 742	824	382	246	577	3 015	7 414	5 293	2 505	1 148
UR Tanzania	189	2 021	4 665	3 885	2 231	1 317	1 066	238	1 735	3 388	1 945	947	535	388	427	3 756	8 053	5 600	3 178	1 852
Zambia	152	1 235	2 971	1 848	805	319	204	195	1 335	2 193	1 188	588	244	131	347	2 570	5 164	3 036	1 363	563
Zimbabwe	138	500	3 693	0	716	292	153	185	739	3 311	0	553	213	90	323	1 239	7 004	0	1 269	505
AFR	7 653	54 179	96 884	71 030	43 074	20 597	12 850	10 102	56 594	77 008	43 857	24 129	12 281	7 431	17 755	110 773	173 892	114 887	67 203	32 878

For some countries, breakdown of notified cases by age and sex is missing, or is provided for a subset of cases. See Explanatory notes for further details. Data can be downloaded from www.who.int/tb

Table A3.12 New smear-positive case notification rates by age and sex, DOTS and non-DOTS, Africa, 2007

	Male					Female					All											
	0-14	15-24	25-34	35-44	45-54	55-64	65+	0-14	15-24	25-34	35-44	45-54	55-64	65+	0-14	15-24	25-34	35-44	45-54	55-64	65+	
Algeria	2	37	56	36	33	37	58	2	28	27	15	19	29	46	15	33	41	26	26	33	51	
Angola	12	165	283	310	292	265	260	18	170	237	239	203	180	158	5	167	260	273	245	220	203	
Benin																						
Botswana	8	114	321	461	402	342	331	14	160	276	275	167	108	91	11	137	299	370	277	212	182	
Burkina Faso	0	15	40	66	91	102	79	1	11	23	29	33	38	17	1	13	32	47	59	66	42	
Burundi	1	46	114	161	151	144	107	3	39	68	76	49	40	28	2	42	90	117	97	85	58	
Cameroon	3	71	191	216	179	132	104	4	74	147	116	82	61	41	4	72	169	166	130	95	69	
Cape Verde Republic	0	40	78	94	128	74	81	0	30	42	17	5	32	42	0	35	60	55	55	48	55	
Chad																						
Comoros	4	93	223	264	210	112	122	6	108	216	185	127	86	86	5	100	220	225	167	98	102	
Cote d'Ivoire	4	75	164	204	146	119	136	6	64	147	142	59	38	76	5	70	171	175	124	105	106	
DR Congo	9	106	230	307	332	282	235	12	116	201	225	236	200	118	11	111	215	266	282	238	176	
Equatorial Guinea																						
Eritrea	2	11	20	39	63	73	101	0	14	21	28	36	21	21	1	12	20	33	48	43	52	
Ethiopia	6	78	108	93	83	67	50	7	65	96	73	55	30	16	6	71	102	83	68	48	32	
Gabon																						
Gambia	1	24	64	101	107	89	122	2	19	38	47	46	33	45	2	21	51	74	76	61	82	
Ghana	2	96	202	208	162	125	160	4	70	98	84	66	50	48	3	83	151	147	114	86	96	
Guinea																						
Guinea-Bissau	6	116	286	296	228	193	135	8	113	213	165	104	84	61	7	115	250	231	163	134	94	
Kenya	1	14	102	130	188	147	73	1	32	79	128	52	24	23	1	23	90	129	103	72	43	
Lesotho																						
Liberia	5	76	173	223	262	225	153	5	75	132	142	135	96	57	5	76	153	182	198	158	101	
Madagascar	2	44	154	180	139	101	85	3	55	161	127	88	55	38	3	50	157	153	112	76	58	
Malawi	1	30	87	130	167	215	114	1	21	46	51	48	55	38	1	25	66	87	99	118	70	
Mali	2	65	145	157	129	271	166	3	34	65	57	56	57	67	3	50	106	107	92	150	111	
Mauritania	0	9	8	12	17	19	17	0	4	7	3	6	7	6	0	7	8	8	12	13	11	
Mauritius																						
Mozambique	15	155	645	751	552	395	391	18	175	542	483	320	210	178	16	165	594	616	425	291	267	
Namibia	1	48	166	150	111	142	101	2	22	46	53	62	62	52	1	34	104	103	90	105	79	
Niger																						
Nigeria	2	28	84	88	84	68	68	2	30	59	46	41	46	26	2	29	72	67	62	53	45	
Rwanda	2	44	133	156	133	138	97	4	40	67	59	42	43	25	3	42	96	104	84	84	54	
Rwanda	0	23	88	128	95	188	0	0	53	49	45	58	180	0	0	38	74	86	75	183	0	
Senegal	2	82	189	159	155	132	97	3	60	68	65	62	46	35	3	71	133	110	106	88	65	
Seychelles																						
Sierra Leone	4	97	268	282	288	201	202	6	71	145	159	120	97	73	5	84	206	219	191	145	129	
South Africa	25	217	538	677	562	373	243	33	300	537	435	266	188	134	29	258	537	555	415	271	176	
Swaziland	0	23	66	91	85	60	74	1	27	54	49	32	26	26	1	25	60	70	57	42	47	
Togo	3	55	218	306	242	178	153	5	60	152	159	110	76	58	4	57	185	234	174	123	100	
Uganda	2	49	162	201	187	201	201	3	42	119	111	79	64	57	2	46	141	166	137	120	120	
UR Tanzania	6	97	343	394	284	172	138	7	106	265	270	179	104	64	6	101	305	334	233	134	95	
Zambia	5	30	333	0	207	144	76	7	44	319	0	137	79	33	6	37	326	0	169	107	51	
Zimbabwe																						
AFR	4	66	171	195	179	142	117	6	70	137	119	94	74	53	5	68	154	157	135	106	81	

Rates are per 100,000 population of each age/sex group. Rates are calculated excluding those countries for which breakdown of notified cases or population by age and sex is missing. Data can be downloaded from www.who.int/tb

Table A3.13 TB case notifications, Africa, 1980–2007

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
Algeria	2 702	13 916	13 681	13 133	13 832	12 917	11 212	11 212	11 325	11 039	11 607	11 332	11 428	13 345	13 345	13 507	15 329	16 522	15 324	16 647	18 572	18 250	18 034	19 730	19 809	21 336	21 143	21 369	
Angola	10 117	7 501	7 911	6 625	10 153	8 653	9 363	8 510	8 184	9 667	10 271	11 134	11 272	8 269	7 157	5 143	15 424	15 066	14 235	14 335	16 062	21 713	29 996	36 079	35 437	37 175	50 419	41 292	
Benin	1 835	1 862	1 793	1 804	1 913	2 162	1 901	2 027	2 027	2 084	2 162	2 084	2 162	2 420	2 210	2 332	2 284	2 285	2 316	2 552	2 706	2 706	2 932	2 932	3 116	3 270	3 619	3 619	
Botswana	2 662	2 605	2 705	2 883	3 101	2 706	2 627	3 173	2 740	2 532	2 938	3 274	4 179	4 654	4 756	5 665	6 636	7 287	7 960	8 647	9 292	9 618	10 204	10 826	10 131	10 588	8 413	7 622	
Burkina Faso	2 577	2 391	2 265	3 061	8 777	4 547	1 407	9 449	1 407	1 488	1 488	1 443	1 443	1 443	8 611	2 572	1 814	1 643	2 074	2 310	2 310	2 406	2 406	2 620	2 878	3 484	3 941	3 960	
Burundi	769	643	951	1 053	1 904	2 317	2 569	2 739	3 745	4 608	4 575	4 684	4 464	4 677	3 840	3 326	3 796	5 335	6 546	6 365	6 478	6 371	6 871	6 871	7 164	6 585	6 114	6 284	
Cameroon	2 434	2 236	3 765	3 445	3 338	3 383	2 138	3 878	4 982	5 521	5 892	6 814	6 803	7 064	7 312	3 282	3 049	3 952	5 022	7 660	5 251	11 307	11 057	11 964	17 655	21 489	23 483	24 682	
Cape Verde	516	344	393	230	285	259	285	276	210	221	221	221	221	221	303	303	179	196	205	205	291	291	316	316	292	262	262	274	
Central African Republic	651	758	1 475	1 686	468	520	779	499	814	610	2 124	2 045	2 045	2 045	3 339	3 339	3 623	4 459	4 875	5 003	2 550	4 837	3 932	3 908	3 210	6 045	6 045	5 879	
Chad	220	286	127	1 977	1 430	1 466	1 285	1 036	2 977	2 572	2 591	2 912	2 684	2 871	3 303	3 186	1 936	2 180	2 784	4 710	4 710	5 077	4 679	4 946	6 311	6 311	112	112	
Comoros	742	1 214	3 716	4 156	2 776	2 648	3 120	3 423	6 578	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962	6 962
Cote d'Ivoire	4 197	4 418	5 000	6 000	6 062	5 729	6 072	6 472	6 376	6 863	5 911	6 181	11 719	13 976	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002	14 002
DR Congo	5 122	3 051	9 905	13 021	20 415	26 082	27 665	27 096	30 272	31 211	33 782	37 660	36 647	38 477	42 819	45 999	44 783	58 917	59 531	60 627	66 748	70 625	84 687	93 336	97 075	95 666	99 810	99 810	
Equatorial Guinea				181	17	1	1	11	20	157	260	331	262	309	356	306	319	366	416	416	416	416	416	416	416	416	416	416	416
Eritrea	40 096	42 423	52 403	56 824	65 045	71 731	80 846	85 876	95 521	80 795	88 634	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006	60 006
Ethiopia	865	766	761	752	654	855	769	864	721	912	912	906	926	972	1 034	1 115	951	1 434	1 380	1 598	1 514	1 923	1 173	1 891	1 827	1 247	1 243	1 916	
Guinea	239	56	4 041	4 345	2 651	1 935	3 925	5 877	5 297	6 017	7 136	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	7 044	
Guinea-Bissau	645	485	205	376	368	530	1 310	752	1 778	1 362	1 163	1 246	1 059	1 558	1 647	1 678	1 678	1 445	846	1 164	1 273	1 966	1 647	1 835	1 774	1 774	1 774	1 774	
Kenya	11 049	10 027	11 966	10 460	10 022	10 515	10 957	12 592	11 788	12 320	14 999	20 451	22 930	28 142	34 980	39 738	48 936	57 266	64 159	73 017	80 183	91 522	100 573	102 680	106 342	106 438	106 438	106 438	
Lesotho	4 082	3 830	4 932	3 443	2 923	2 927	21	225	2 346	2 463	2 525	2 994	3 327	3 384	4 334	5 181	5 598	6 447	7 806	8 552	9 746	10 111	12 007	11 404	10 802	12 073	2 319		
Liberia	774	1 002	835	885	425	232	384	884	1 948	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	
Madagascar	9 082	7 464	3 573	3 598	8 673	3 220	3 717	4 007	4 383	5 417	6 261	6 015	8 126	9 855	10 671	21 616	12 718	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	14 661	
Malawi	4 768	5 033	4 411	4 707	4 404	5 335	6 260	7 581	8 359	9 431	12 395	14 743	14 237	17 105	19 496	19 155	20 630	20 676	22 674	24 396	23 604	26 094	24 895	25 841	27 030	25 491	25 054	24 461	
Mali	839	933	187	532	1 872	1 621	1 851	2 534	2 578	1 626	2 933	2 631	3 113	3 204	3 075	3 087	3 655	5 022	4 142	4 466	4 216	4 466	4 466	4 466	4 466	4 466	4 466	4 466	
Mauritania	7 576	9 427	2 327	2 333	3 977	4 406	2 257	3 722	3 928	4 040	5 284	3 064	4 316	3 996	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	3 849	
Mauritius	132	157	121	152	118	111	119	117	114	129	119	134	130	159	149	131	116	121	120	154	160	123	139	137	137	125	114	106	
Mozambique	7 457	6 984	5 787	5 837	5 204	5 645	8 263	10 996	13 863	15 958	16 609	15 085	16 588	17 158	17 558	18 882	18 443	18 842	19 672	20 574	21 158	22 088	25 644	28 602	31 150	33 231	35 257		
Namibia	717	2 871	754	673	665	698	570	556	631	608	5 200	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756	1 756		
Niger	9 877	10 838	10 949	10 212	11 439	14 937	14 071	19 723	25 700	13 342	20 122	19 626	14 902	11 801	8 449	13 423	15 020	16 660	20 249	24 157	25 821	45 942	38 628	44 184	57 246	62 598	70 734		
Nigeria	1 495	1 396	1 364	1 419	1 327	2 460	3 287	4 145	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741	4 741		
Rwanda	131	37	40	59	49	40	8	55	13	17	120	320	200	97	41	3 054	3 535	4 710	6 112	6 483	6 093	5 473	6 011	6 812	6 487	7 220	8 117		
Sao Tome & Principe	2 014	2 573	1 612	2 417	1 065	927	6 145	5 611	5 965	4 977	6 781	7 408	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841	6 841		
Senegal	16	0	16	16	10	10	24	14	10	6	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41		
Sierra Leone	750	847	889	293	816	865	358	358	130	120	660	632	1 466	1 665	2 691	3 241	3 241	3 160	3 270	3 270	3 270	3 270	3 270	3 270	3 270	3 270	3 270		
South Africa	55 310	59 943	64 115	62 558	62 717	59 349	55 013	57 406	61 486	68 075	80 400	77 652	82 539	89 768	90 282	73 917	109 328	125 913	142 281	148 164	151 239	148 257	215 720	227 320	267 290	270 178	303 114		
Swaziland	208	126	204	174	343	745	596	1 184	1 071	940	1 324	1 243	1 223	1 055	1 137	1 520	1 654	1 623	1 250	1 249	1 409	6 118	6 748	7 749	8 071	8 082			
Togo	1 058	1 170	497	2 029	1 382	1 464	3 066	1 045	1 474	1 916	2 062	2 179	26 994	25 316	27 196	28 349	29 228	31 997	30 372	36 529	40 685	41 795	43 721	41 040	40 762	40 909			
UR Tanzania	11 463	12 122	11 746	11 753	12 092	13 698	15 462	16 920	18 206	19 262	22 249	23 210	28 462	31 016	30 984	38 647	44 416	46 433	51 231	52 437	54 442	61 603	60 306	61 579	62 512	61 022			

Table A3.14 TB case notification rates, Africa, 1980–2007

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
Algeria	14	69	66	61	63	57	48	47	45	46	44	43	49	48	48	53	57	52	55	61	59	60	62	61	65	63	63		
Angola	129	93	94	76	113	93	87	82	94	98	103	100	71	60	42	122	116	108	105	115	152	204	238	227	231	305	243		
Benin	49	49	45	44	45	46	48	41	42	39	40	40	43	40	35	38	36	34	36	37	37	37	37	37	38	39	41		
Botswana	267	253	254	262	273	231	217	254	213	191	215	233	289	313	311	362	414	445	476	508	537	549	575	549	558	548	405		
Burkina Faso	38	34	32	42	12	59	13	17	11	19	17	16	15	9	25	17	15	19	20	19	20	19	20	21	25	27	27		
Burundi	19	15	22	23	40	47	51	52	70	83	80	84	75	77	62	53	60	84	102	97	95	90	94	94	95	84	75	74	
Cameroon	27	24	39	35	33	32	20	35	43	46	48	54	52	53	53	21	27	33	49	33	33	70	66	84	101	121	129	130	
Cape Verde	178	117	131	75	91	81	86	81	60	62	61	66	44	47	48	76	44	47	48	63	65	41	65	59	58	51	52		
Central African Republic	28	32	60	66	18	19	28	18	28	2	71	66	66	66	66	97	102	123	131	132	131	132	121	97	95	77	142	55	
Comoros	5	6	3	40	28	28	24	20	52	43	42	46	41	43	48	45	28	29	35	58	58	56	49	50	62	62	14	14	
Congo	41	65	104	210	136	126	145	156	170	185	24	25	46	75	110	129	156	116	127	161	288	296	284	226	276	273	230	239	
Cote d'Ivoire	50	50	55	62	60	55	55	57	61	61	67	68	96	80	85	87	91	90	76	95	91	99	110	106	110	120	120		
DR Congo	18	11	33	43	63	80	83	79	85	86	85	56	86	83	79	85	92	84	99	94	121	120	120	128	132	163	164	158	159
Equatorial Guinea																													
Eritrea	108	111	133	140	155	165	180	195	199	163	173	113	110	138	367	487	668	660	249	227	170	181	72	70	113	97	78	64	75
Ethiopia	127	114	106	101	86	109	95	103	83	102	100	96	95	97	101	106	88	128	122	138	208	208	170	177	204	195	233	283	
Gabon	36	8	34	36	21	15	24	28	41	36	40	41	45	43	51	98	46	57	57	59	53	54	58	56	55	54	54	54	54
Ghana	40	31	17	24	25	21	22	31	32	33	36	45	46	47	48	95	57	60	64	66	70	73	76	84	76	96	100	100	
Guinea	81	57	25	44	42	59	143	80	81	138	114	119	98	139	143	135	137	115	65	87	93	108	110	118	111	130	130		
Guinea-Bissau	68	59	66	66	53	49	50	50	56	50	51	58	79	86	103	124	137	165	188	205	228	244	271	290	288	296	284		
Kenya	315	288	361	245	203	199	1	15	151	156	158	184	202	203	256	301	319	361	428	461	517	555	616	580	545	605	115	115	
Lesotho	41	52	42	43	20	11	18	41	94	86	85	65	37	65	65	37	65	65	49	55	105	76	130	100	124	124			
Liberia	100	80	37	36	85	31	35	36	39	46	52	49	64	75	79	155	88	96	96	207	216	203	218	201	206	210	193	185	176
Madagascar	77	79	67	70	63	73	82	93	87	104	131	152	145	173	196	190	200	195	207	216	203	218	201	206	210	193	185	176	
Malawi	14	15	3	8	28	24	27	36	35	22	38	33	39	39	36	35	41	55	44	46	42	42	41	40	40	40	42	42	
Mali	504	611	147	143	238	257	128	206	212	213	272	153	211	190	173	188	161	149	146	120	111	115	115	115	73	89	95	8	
Mauritania	14	16	12	15	12	11	12	11	12	11	12	11	13	12	15	13	12	10	11	10	13	10	12	11	11	10	9	8	
Mauritius	61	56	45	46	39	42	62	82	104	119	117	120	105	112	111	112	112	112	114	116	116	118	133	146	155	162	168	176	
Mozambique	12	48	12	11	10	10	8	8	9	8	66	41	41	41	42	21	42	40	49	36	42	44	43	57	53	59	62	65	
Namibia	14	15	15	13	14	18	17	23	29	15	21	20	15	11	8	12	13	14	17	20	21	36	29	33	41	44	49	56	56
Niger	29	26	24	24	22	38	48	58	65	88	45	15	101	15	15	101	60	74	87	85	75	64	69	76	72	78	86	79	
Nigeria	138	38	41	59	48	39	8	51	12	12	12	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Rwanda	34	43	26	38	16	13	85	75	78	63	83	89	80	78	84	92	87	86	74	82	81	77	84	79	83	84	83		
Sao Tome & Principe	24	0	24	24	15	15	35	20	14	8	57	15	36	40	65	62	47	78	75	76	83	99	97	102	106	121	140	161	
Senegal	23	26	26	9	23	24	10	3	3	3	15	15	36	40	65	62	47	78	75	76	83	99	97	102	106	121	140	161	
Sierra Leone	180	201	209	199	195	180	163	187	176	190	220	207	214	227	223	178	268	293	323	331	333	322	463	483	562	654	628	649	
South Africa	7	23	470	292	11	22	17	33	29	24	33	31	29	24	26	34	35	33	23	24	26	24	26	31	36	41	44	37	
Swaziland	8	9	4	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Togo	61	63	59	57	57	63	69	73	76	78	87	96	105	112	120	133	145	147	159	161	177	169	168	167	159	150	147	147	
Uganda	89	100	103	105	107	118	121	135	168	181	208	280	297	347	390	388	426	442	477	434	499	487	480	432	409	389	389	389	
UR Tanzania	56	54	58	47	67	54	57	61	61	67	87	109	147	178	207	261	298	359	381	400	402	440	460	411	431	385	302	302	
Zambia	58	57	60	62	62	67	66	71	78	74	82	78	80	75	96	86	97	97	108	115	117	126	143	160	160	157	161	158	
Zimbabwe																													
AFR																													

Rates are per 100,000 population. From 1995 on, number shown is notification rate of new and relapse cases. Figures for all years are updated as new information becomes available and/or techniques are refined, so they may differ from those published previously. Data can be downloaded from www.who.int/tb

Table A3.16 NTP budgets, available funding, cost of utilization of general health-care services and total TB control costs (US\$ millions), Africa, 2009

	NTP budget		Available funding		Funding gap		Cost of utilization of general health-care services	Total TB control costs	Completeness of budget data
	Government (excluding loans)	Loans	Grants (excluding Global Fund)	Global Fund	Government (excluding loans)	Loans			
Algeria									N
Angola									N
Benin									N
Botswana	4.7	1.8	0	1.1	1.0	0.8	12	17	C
Burkina Faso	3.0	0.2	0	3.0	2.8	0	0.7	3.7	C
Burundi	2.2	0.1	0	0.3	1.8	0	0.7	2.9	C
Cameroon	1.9	0.3	0	0	0.5	1.0	5.9	7.8	C
Cape Verde	0.3	0.1	0	0.05	0	0.2	0.2	0.4	C
Central African Republic									N
Chad									N
Comoros									N
Conogo									N
Cote d'Ivoire									N
DR Congo	53	0.3	0	3.3	11	39	0.9	66	C
Equatorial Guinea									N
Eritrea	38	11	0	0	7.0	21	0.1	38	C
Ethiopia	1.0	1.1	0	1.0	6.2	16	8.5	35	C
Gabon	1.4	0.2	0	0.1	0	1.1	1.2	2.7	C
Gambia									N
Ghana	19	1.1	0	0	5.9	12	0.6	20	C
Guinea									N
Guinea-Bissau									N
Kenya	37	6.6	1.0	12	2.5	15	5.1	42	C
Lesotho									N
Liberia									N
Madagascar	8.1	0.3	0	<0.01	2.9	4.9	1.7	9.8	C
Malawi	8.7	3.8	0	1.0	4.0	<0.01	0.9	9.6	C
Mali	3.0	0.9	0	0	1.3	0.8	0.8	3.6	C
Mauritania	1.9	0.6	0	0	1.3	0	0.04	1.9	C
Mauritius									N
Mozambique	25	6.4	0	7.9	4.4	6.0	5.9	31	C
Namibia	4.3	1.9	0	1.2	1.2	<0.01	2.0	6.2	C
Niger	0	0	0	0.05	0.8	<0.01	0	0	P
Nigeria	44	7.3	0	4.4	1.3	19	11	55	C
Rwanda	1.3	0.2	0	0.4	0.7	<0.01	0.1	1.4	C
Sao Tome & Principe	0.9	0.2	0	0.02	0.7	<0.01	0.02	1.0	C
Senegal	3.1	0.7	0	0.2	2.2	0	0.3	3.3	C
Seychelles									N
Sierra Leone									N
South Africa	9.2	4.6	0	1.1	3.5	<0.01	251	251	P
Swaziland	1.7	0.4	0	0.3	1.1	0	0.1	9.3	C
Togo									C
Uganda	17	1.3	0	0.1	4.8	11	1.2	18	C
UR Tanzania	25	7.1	0	4.7	5.4	7.4	4.2	29	C
Zambia	13	0.8	0	2.1	7.1	2.4	1.3	14	C
Zimbabwe	17	0.6	0	4.1	3.4	9.6	4.1	22	C
AFR	371	60	1	46	97	158	333	704	59%

N indicates data not available or not applicable; P indicates partial financial data; C indicates complete data and therefore included in analysis presented in chapter 3. Completeness of budget data in total row indicates percentage of countries providing complete financial data. Data can be downloaded from www.who.int/tb

Notes

Botswana

TABLE A3.8: cases not evaluated include 15 cases diagnosed with MDR-TB.

Malawi

TABLE A3.8: patients for whom treatment outcomes are not reported include those who died before starting treatment, and those whose diagnosis was changed.

Mozambique

TABLE A3.6: while DOTS is available in all administrative areas, only 1092 out of 1333 (82%) health facilities were providing DOTS services in 2007.

TABLE A3.11: breakdown of notified cases by sex was not available. In 2007, of the 18 324 notified new smear-positive cases, 333 were in patients aged under 15 years, and 17 881 were patients aged 15 years or more.

Zimbabwe

TABLE A3.11: all new smear-positive cases in people aged 25–44 years are shown under 25–44 years.