

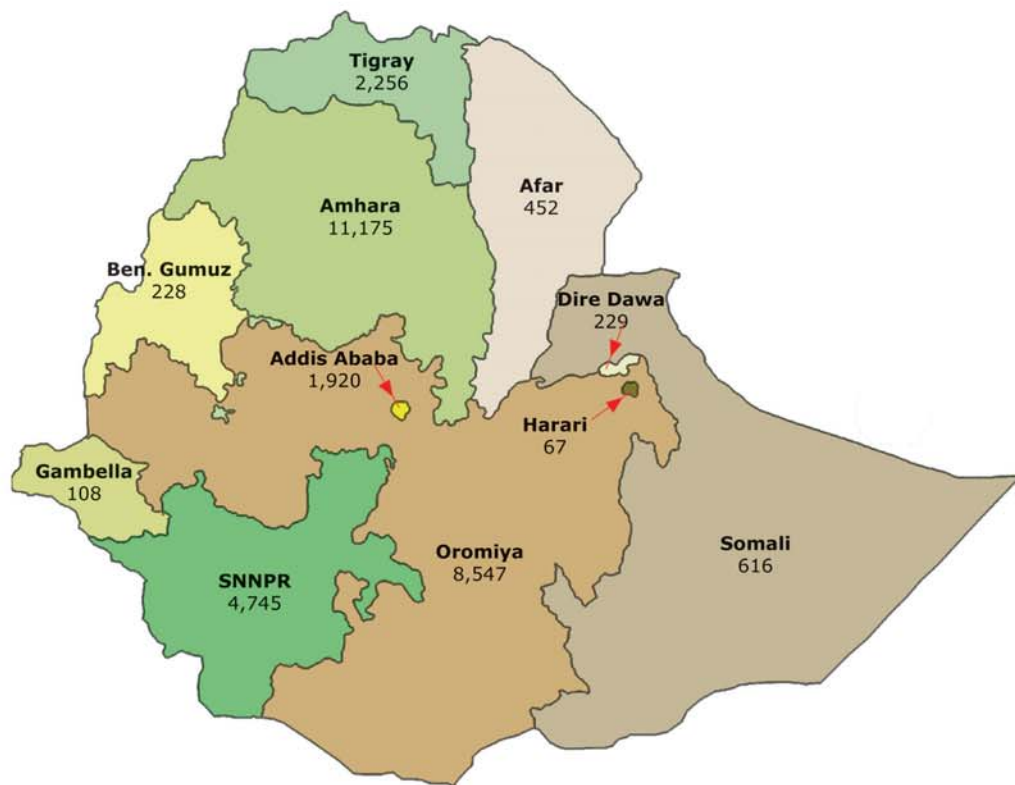
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REGIONAL HIV/AIDS
ESTIMATES

04

MAP 5

HIV Positive Births by Region, 2005



Ethiopia Total 30,338

REGIONAL HIV/AIDS ESTIMATES

**4A: TIGRAY****The HIV/AIDS Epidemic in Tigray Region****Estimates and projections on HIV prevalence and incidence**

The HIV prevalence was estimated at 4.2 % (4.7% in females and 3.6% in males) in 2005. The HIV prevalence among the urban populations was estimated at 13.3% (15% in females and 11.6% in males). The corresponding estimate among the rural population was 1.9 % (2.2% in females and 1.7 % in males). The estimated HIV incidence was 0.38% in 2005 (1.61 % in urban and 0.13 % in rural areas). The total HIV incidence is expected to remain stable up to 2010. In Tigray, the urban epidemic is characterized by a gradual increase up to 1998, a relative stability up to 2005 and is projected to remain stable for the coming few years. On the other hand, the rural epidemic showed stability between 1999 and 2003 and a declining trend there after. Thus, the over all HIV prevalence for the region was increasing up to 2001 and remained stable up to 2004 where it started to decline. It is expected to continue declining for the coming few years.

Estimates and projections on the number of PLWHA , new infections, new AIDS cases and deaths in adults

A total of 88, 498 persons were estimated to be living with HIV/AIDS in the year 2005. The corresponding figures for estimated numbers of new HIV infections, new AIDS cases and AIDS deaths were 10,617, 7,938 and 7,372 respectively. The estimated number of persons requiring ART for 2005 was 16, 341.

Estimates and projections on the numbers of HIV positive pregnancies and births

There were 7, 767 HIV-positive pregnancies in the region in 2005. Similarly, there were 2, 256 HIV positive births in 2005. The numbers of HIV positive pregnancies will remain stable while that of HIV positive births will be declining in the coming five years. The later will be due to the effects of the PMTCT program

Estimates and projections on the numbers of PLWHA, new infections, new AIDS cases and deaths in children

It is estimated that there were a total of 7, 998 children living with HIV, 2, 256 new HIV infections, 1, 473 new AIDS cases and 1, 416 AIDS deaths among children in the region in 2005.

Estimates and projections on the numbers of AIDS orphans

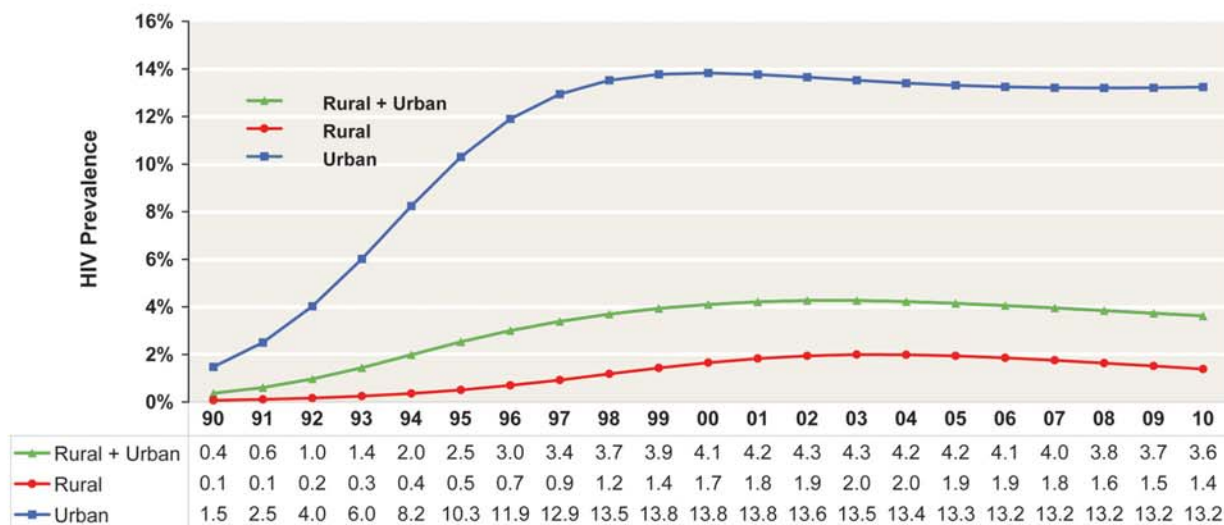
It was estimated that there were a total of 286, 112 orphans in the region in 2005. Of these, 35,188 were AIDS orphans. Of the ADIS orphans, well nearly one third (11, 889) were dual orphans.

Table 4A1. Major HIV Indicators, Tigray

All Ages							
	2004	2005	2006	2007	2008	2009	2010
Adult prevalence (%)							
Total	4.2	4.2	4.1	4.0	3.8	3.7	3.6
Female	4.8	4.7	4.6	4.5	4.3	4.2	4.1
Male	3.7	3.6	3.5	3.4	3.3	3.2	3.1
HIV-pos population							
Total	85,844	88,498	90,768	94,074	97,477	101,528	106,349
Males	38,058	39,272	40,313	41,823	43,370	45,206	47,376
Females	47,786	49,226	50,455	52,251	54,107	56,322	58,973
HIV-pos pregnant women	7,715	7,767	7,788	7,859	7,938	8,051	8,236
Annual HIV-pos births	2,253	2,256	1,994	1,776	1,553	1,504	1,483
New HIV infections							
Total	10,598	10,617	10,571	10,492	10,499	10,719	10,829
Males	4,997	4,996	4,951	4,885	4,867	4,954	4,993
Females	5,601	5,621	5,620	5,607	5,632	5,765	5,836
Adult HIV incidence (%)	0.39	0.38	0.37	0.36	0.35	0.34	0.34
New AIDS cases							
Total	7,475	7,938	8,221	8,422	8,549	8,696	8,844
Males	3,473	3,668	3,783	3,866	3,920	3,991	4,067
Females	4,002	4,270	4,438	4,556	4,629	4,705	4,777
Annual AIDS deaths							
Total	6,844	7,372	6,261	6,193	5,685	5,032	5,730
Males	3,203	3,422	2,892	2,845	2,605	2,314	2,634
Females	3,641	3,950	3,369	3,348	3,080	2,718	3,096
Population increase	114,194	117,051	121,756	125,064	128,715	125,064	121,756
ART needs	15,542	16,341	16,885	18,539	20,358	22,728	24,433
Children (0-14 yrs)							
	2004	2005	2006	2007	2008	2009	2010
HIV population							
Total	7,432	7,998	8,439	8,905	9,227	9,503	9,614
Males	3,727	4,011	4,230	4,464	4,626	4,766	4,821
Females	3,705	3,987	4,209	4,441	4,601	4,737	4,793
New HIV infections							
Total	2,253	2,256	1,994	1,776	1,553	1,504	1,483
Males	1,143	1,145	1,012	902	788	763	752
Females	1,110	1,111	982	874	765	741	731
New AIDS cases							
Total	1,430	1,473	1,413	1,337	1,249	1,218	1,209
Males	723	744	714	676	631	615	611
Females	707	729	699	661	618	603	598
Annual AIDS deaths							
Total	1,374	1,416	1,152	1,062	936	1,042	1,090
Males	693	714	581	535	472	526	550
Females	681	702	571	527	464	516	540
ART Needs	2,938	2,932	2,809	2,945	3,105	3,380	2,419
Orphans (0-17 yrs)							
	2004	2005	2006	2007	2008	2009	2010
Maternal orphans							
AIDS	20,678	24,599	27,976	31,071	33,560	34,609	35,918
Non-AIDS	109,480	110,692	111,630	112,285	112,693	112,872	112,808
Total	130,158	135,291	139,606	143,356	146,253	147,481	148,726
Paternal orphans							
AIDS	19,305	22,478	25,980	29,137	31,895	33,000	34,213
Non-AIDS	159,948	161,480	162,969	164,178	165,180	165,855	166,270
Total	179,253	183,958	188,949	193,315	197,075	198,855	200,483
Dual orphans							
AIDS	9,956	11,889	13,771	15,387	16,665	17,022	17,401
Non-AIDS	21,274	21,248	21,188	21,059	20,872	20,619	20,306
Total	31,230	33,137	34,959	36,446	37,537	37,641	37,707
Total orphans	278,181	286,112	293,596	300,225	305,791	308,695	311,502
Total AIDS orphans	30,027	35,188	40,185	44,821	48,790	50,587	52,730

Note: Total orphans = Maternal orphans plus Paternal orphans less Dual orphans.

Figure 4A.1 : Estimated and Projected HIV Prevalence By Year Adult Population 15-49, Urban, Rural, and Total Tigray 1990-2010



Year and Estimated HIV Prevalence Values in Percent

Figure 4A.2: Estimated and Projected Number of New HIV infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Total Tigray

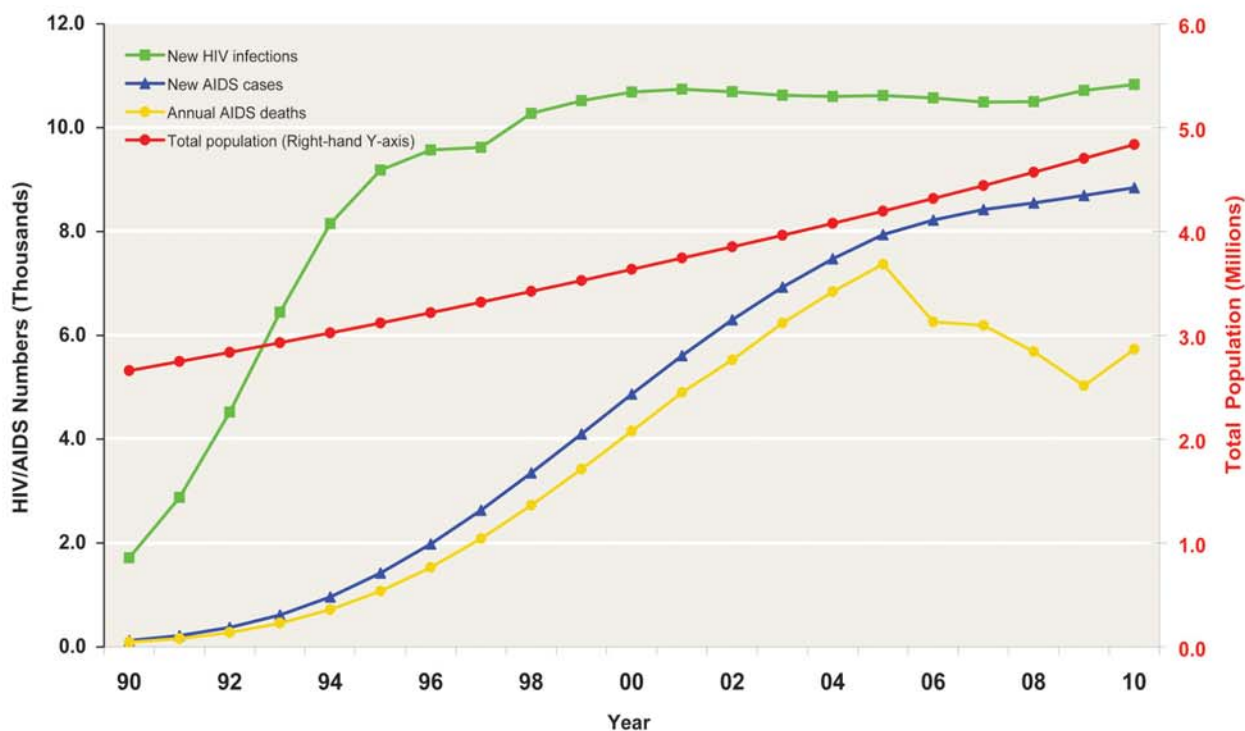


Table 4A2. Major HIV Indicators, Tigray Urban

All Ages							
Adult prevalence (%)	2004	2005	2006	2007	2008	2009	2010
Total	13.4	13.3	13.2	13.2	13.2	13.2	13.2
Female	15.2	15.0	15.0	14.9	14.9	14.9	15.0
Male	11.7	11.6	11.5	11.5	11.5	11.5	11.5
HIV-pos population							
Total	53,606	55,748	58,106	61,729	65,629	70,219	75,549
Males	23,848	24,821	25,886	27,520	29,273	31,336	33,726
Females	29,758	30,927	32,220	34,209	36,356	38,883	41,823
HIV-pos pregnant women	4,256	4,327	4,430	4,614	4,822	5,062	5,359
Annual HIV-pos births	1,228	1,237	1,062	961	859	862	885
New HIV infections							
Total	6,806	7,213	7,544	7,773	8,035	8,386	8,586
Males	3,169	3,337	3,467	3,559	3,676	3,837	3,933
Females	3,637	3,876	4,077	4,214	4,359	4,549	4,653
Adult HIV incidence (%)	1.57	1.61	1.67	1.68	1.69	1.70	1.68
New AIDS cases							
Total	4,887	5,096	5,204	5,304	5,398	5,546	5,738
Males	2,242	2,337	2,390	2,446	2,503	2,586	2,688
Females	2,645	2,759	2,814	2,858	2,895	2,960	3,050
Annual AIDS deaths							
Total	4,573	4,821	3,748	3,725	3,319	2,760	3,456
Males	2,108	2,211	1,717	1,709	1,529	1,286	1,611
Females	2,465	2,610	2,031	2,016	1,790	1,474	1,845
Population increase	26,331	26,936	29,004	29,977	31,388	29,977	29,004
ART needs	10,105	10,471	10,734	12,015	13,405	15,283	16,724
Children (0-14 yrs)							
HIV population							
Total	4,541	4,827	5,041	5,307	5,482	5,645	5,728
Males	2,276	2,420	2,526	2,660	2,748	2,831	2,873
Females	2,265	2,407	2,515	2,647	2,734	2,814	2,855
New HIV infections							
Total	1,228	1,237	1,062	961	859	862	885
Males	623	628	539	488	436	437	449
Females	605	609	523	473	423	425	436
New AIDS cases							
Total	809	835	792	754	713	707	716
Males	409	422	400	381	360	357	362
Females	400	413	392	373	353	350	354
Annual AIDS deaths							
Total	775	800	599	569	503	574	618
Males	391	403	302	287	254	290	312
Females	384	397	297	282	249	284	306
ART Needs	1,676	1,669	1,599	1,751	1,889	2,102	1,433
Orphans (0-17 yrs)							
Maternal orphans							
AIDS	14,301	16,545	18,240	19,669	20,611	20,543	20,869
Non-AIDS	16,271	16,618	16,904	17,138	17,323	17,467	17,573
Total	30,572	33,163	35,144	36,807	37,934	38,010	38,442
Paternal orphans							
AIDS	13,122	14,877	16,850	18,420	19,641	19,732	20,054
Non-AIDS	22,427	22,954	23,527	23,977	24,376	24,658	24,868
Total	35,549	37,831	40,377	42,397	44,017	44,390	44,922
Dual orphans							
AIDS	7,231	8,411	9,591	10,568	11,298	11,319	11,462
Non-AIDS	2,853	2,892	2,933	2,953	2,962	2,951	2,929
Total	10,084	11,303	12,524	13,521	14,260	14,270	14,391
Total orphans	56,037	59,691	62,997	65,683	67,691	68,130	68,973
Total AIDS orphans	20,192	23,011	25,499	27,521	28,954	28,956	29,461

Note: Total orphans = Maternal orphans plus Paternal orphans less Dual orphans.

Figure 4A.3: Projected Annual No. of Patients Needing ART, by Sex and Age Group, 2005- 2010, Tigray Urban

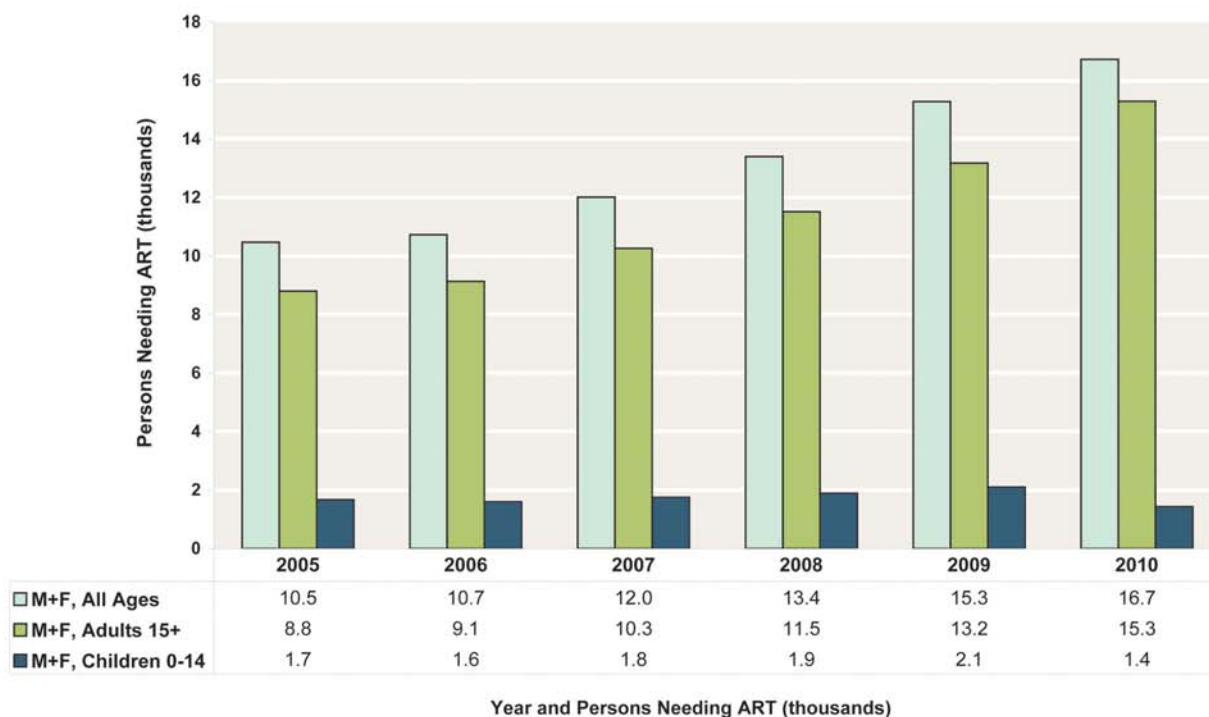


Figure 4A.4: Estimated and Projected Number of New HIV infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Tigray Urban

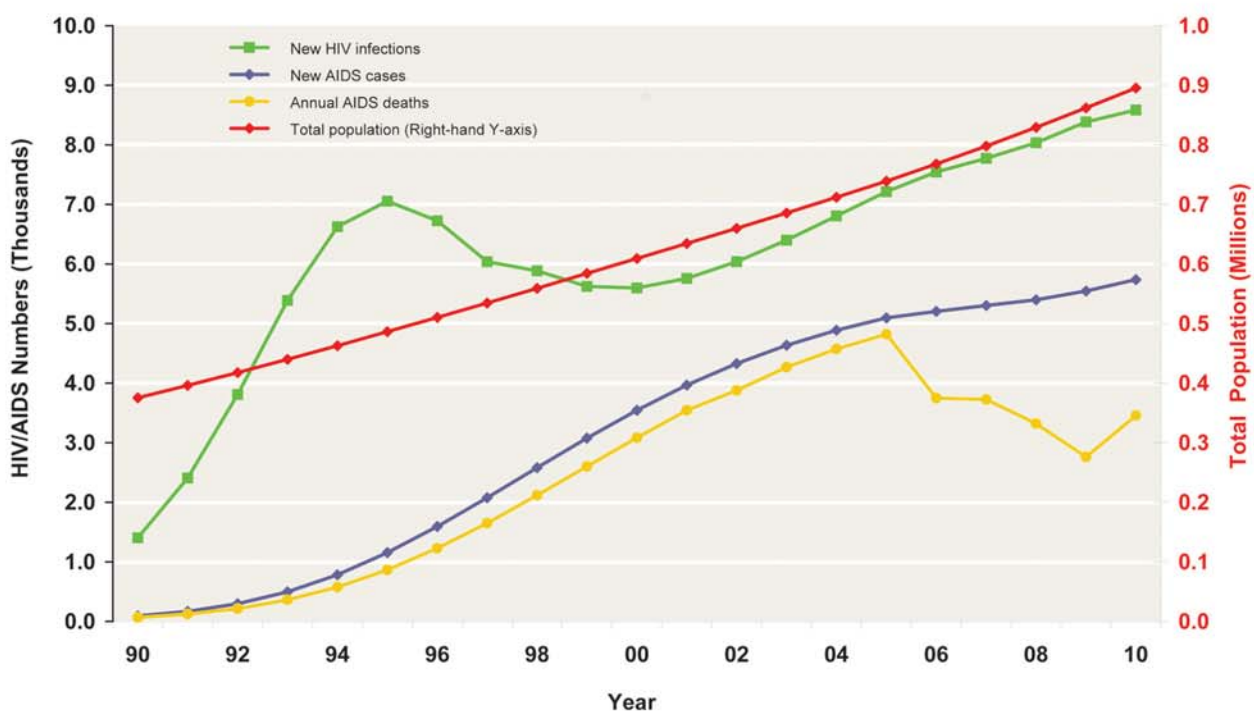


Table 4A3. Major HIV Indicators, Tigray Rural

All Ages							
	2004	2005	2006	2007	2008	2009	2010
Adult prevalence (%)							
Total	2.0	1.9	1.9	1.8	1.6	1.5	1.4
Female	2.2	2.2	2.1	2.0	1.8	1.7	1.6
Male	1.7	1.7	1.6	1.5	1.4	1.3	1.2
HIV-pos population							
Total	32,238	32,750	32,662	32,345	31,848	31,309	30,800
Males	14,210	14,451	14,427	14,303	14,097	13,870	13,650
Females	18,028	18,299	18,235	18,042	17,751	17,439	17,150
HIV-pos pregnant women	3,459	3,440	3,358	3,245	3,116	2,989	2,877
Annual HIV-pos births	1,025	1,019	932	815	694	642	598
New HIV infections							
Total	3,792	3,404	3,027	2,719	2,464	2,333	2,243
Males	1,828	1,659	1,484	1,326	1,191	1,117	1,060
Females	1,964	1,745	1,543	1,393	1,273	1,216	1,183
Adult HIV incidence (%)	0.16	0.13	0.11	0.10	0.09	0.08	0.08
New AIDS cases							
Total	2,588	2,842	3,017	3,118	3,151	3,150	3,106
Males	1,231	1,331	1,393	1,420	1,417	1,405	1,379
Females	1,357	1,511	1,624	1,698	1,734	1,745	1,727
Annual AIDS deaths							
Total	2,271	2,551	2,513	2,468	2,366	2,272	2,274
Males	1,095	1,211	1,175	1,136	1,076	1,028	1,023
Females	1,176	1,340	1,338	1,332	1,290	1,244	1,251
Population increase	87,863	90,115	92,752	95,087	97,327	95,087	92,752
ART needs	5,437	5,870	6,151	6,524	6,953	7,445	7,709
Children (0-14 yrs)							
	2004	2005	2006	2007	2008	2009	2010
HIV population							
Total	2,891	3,171	3,398	3,598	3,745	3,858	3,886
Males	1,451	1,591	1,704	1,804	1,878	1,935	1,948
Females	1,440	1,580	1,694	1,794	1,867	1,923	1,938
New HIV infections							
Total	1,025	1,019	932	815	694	642	598
Males	520	517	473	414	352	326	303
Females	505	502	459	401	342	316	295
New AIDS cases							
Total	621	638	621	583	536	511	493
Males	314	322	314	295	271	258	249
Females	307	316	307	288	265	253	244
Annual AIDS deaths							
Total	599	616	553	493	433	468	472
Males	302	311	279	248	218	236	238
Females	297	305	274	245	215	232	234
ART Needs	1,262	1,263	1,210	1,194	1,216	1,278	986
Orphans (0-17 yrs)							
	2004	2005	2006	2007	2008	2009	2010
Maternal orphans							
AIDS	6,377	8,054	9,736	11,402	12,949	14,066	15,049
Non-AIDS	93,209	94,074	94,726	95,147	95,370	95,405	95,235
Total	99,586	102,128	104,462	106,549	108,319	109,471	110,284
Paternal orphans							
AIDS	6,183	7,601	9,130	10,717	12,254	13,268	14,159
Non-AIDS	137,521	138,526	139,442	140,201	140,804	141,197	141,402
Total	143,704	146,127	148,572	150,918	153,058	154,465	155,561
Dual orphans							
AIDS	2,725	3,478	4,180	4,819	5,367	5,703	5,939
Non-AIDS	18,421	18,356	18,255	18,106	17,910	17,668	17,377
Total	21,146	21,834	22,435	22,925	23,277	23,371	23,316
Total orphans	222,144	226,421	230,599	234,542	238,100	240,565	242,529
Total AIDS orphans	9,835	12,177	14,686	17,300	19,836	21,631	23,269

Note: Total orphans = Maternal orphans plus Paternal orphans less Dual orphans.

Figure 4A.5: Projected Annual No. of Patients Needing ART, by Sex and Age Group, 2005- 2010, Tigray Rural

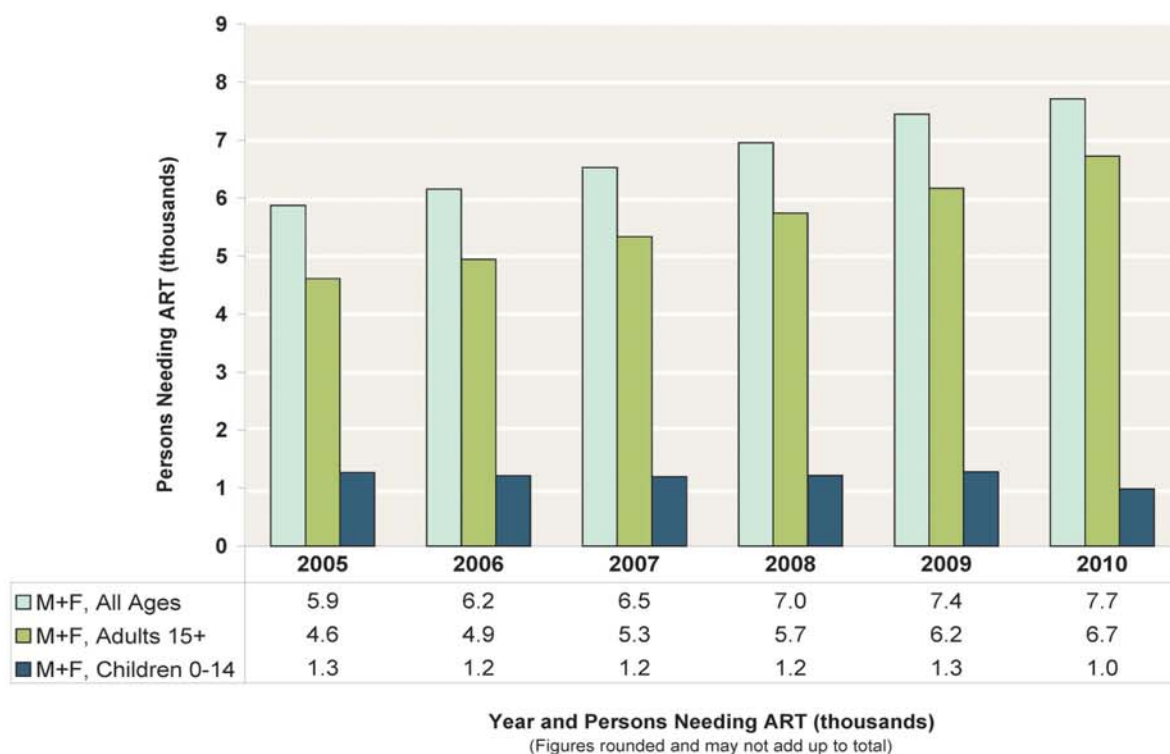


Figure 4A.6: Estimated and Projected Number of New HIV infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Tigray Rural

