

THE HIV/AIDS EPIDEMIC IN ADDIS ABABA

Of all regions, Addis Ababa provides the most reliable trend data for HIV surveillance. A new site, Akaki Health Clinic, was added to the four already existing ones, and reported the lowest HIV prevalence of the five sites. The overall modeled HIV prevalence is estimated at 14.6% and 14.5% for the years 2003 and 2004, respectively. The estimated HIV incidence was 1.99% in 2003, whereas it was 2.03% in 2004. The incidence is estimated to rise until 2006 and decline thereafter.

In Addis Ababa, the epidemic seems to have stabilized after 1998, yet current data suggest a possible rise after 2005. A total of 241,000 and 246,000 persons were estimated to be living with HIV/AIDS in the years 2003 and 2004, respectively. It is also estimated that there were a total of 28,000 and 29,000 new HIV infections in 2003 and 2004, respectively. In the same years, it is estimated that there were a total of 24,000 and 24,000 new AIDS cases. Approximately 23,000 persons died of AIDS in each of 2003 and 2004.

In the respective years, there were 9,300 and 9,600 HIV-positive pregnant women. In the years 2003, there were 2,600 HIV positive births. In the years 2004 and 2005, it is estimated that 47,000 persons require treatment with ARVs.

Among children, it is estimated that there were a total of 9,300 children living with HIV 2003, there were 2,600 new HIV infections, 2,400 new AIDS cases and correspondingly, there were 2,300 deaths.

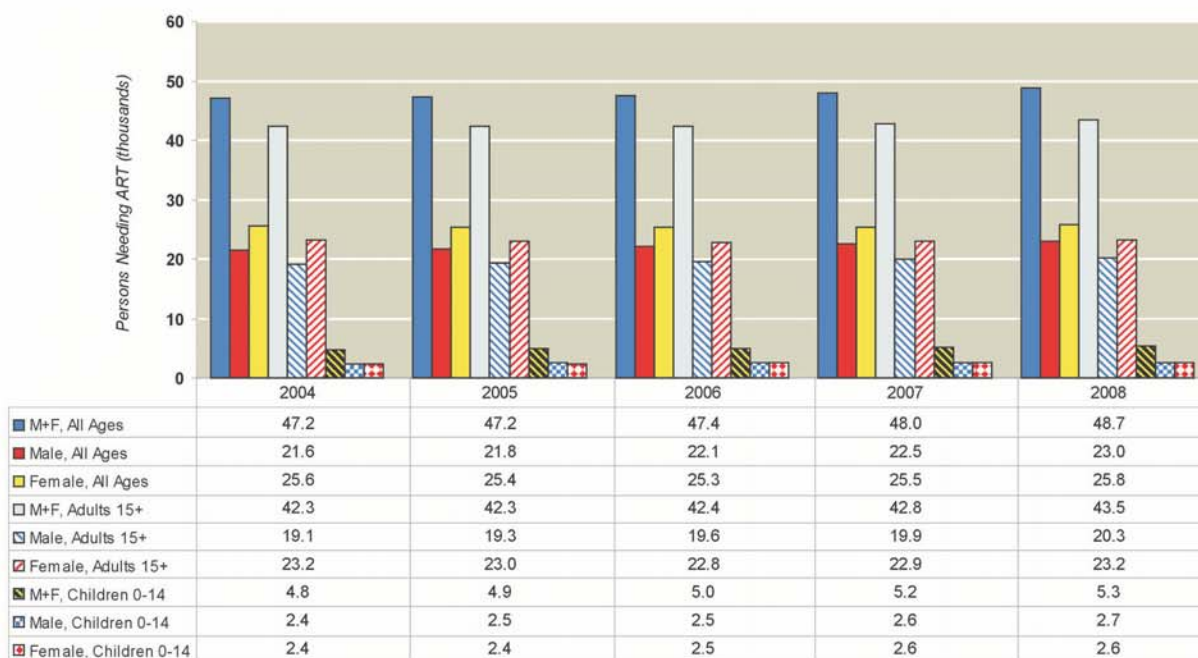
It was estimated that there were a total of 55,000 and 59,000 maternal AIDS orphans, 48,000 and 52,000 paternal AIDS orphans and 24,000 and 26,000 dual AIDS orphans in the years 2003 and 2004, respectively.

In overall, despite a stable incidence, the number of new HIV infections, new AIDS cases and annual AIDS deaths shows a rapid rising trend, which may be attributed to the rapid population increase.

TABLE 4J.1 Major HIV Indicators, Addis Ababa

ALL AGES							
	2002	2003	2004	2005	2006	2007	2008
Adult prevalence (%)	14.7	14.6	14.5	14.5	14.5	14.6	14.6
Female	16.0	15.9	15.9	15.9	16.0	16.0	16.1
Male	13.2	13.1	13.0	13.0	13.0	13.0	13.0
HIV-pos population							
Total	237,476	241,272	245,925	251,379	257,694	264,433	271,440
Males	105,624	107,373	109,527	112,059	114,987	118,112	121,332
Females	131,852	133,899	136,398	139,320	142,707	146,321	150,108
HIV-pos pregnant women	9,252	9,388	9,591	9,858	10,193	10,574	10,947
Annual HIV-pos births	2,517	2,554	2,609	2,683	2,774	2,878	2,980
New HIV infections							
Total	26,965	28,325	29,451	30,323	31,171	31,591	31,962
Males	12,356	12,923	13,455	13,919	14,403	14,708	14,946
Females	14,609	15,402	15,996	16,404	16,768	16,883	17,016
Adult HIV incidence (%)	1.94	1.99	2.03	2.04	2.05	2.02	2.00
New AIDS cases							
Total	23,479	23,578	23,590	23,603	23,723	23,982	24,363
Males	10,596	10,692	10,791	10,905	11,057	11,249	11,477
Females	12,883	12,886	12,799	12,698	12,666	12,733	12,886
Annual AIDS deaths							
Total	23,207	23,507	23,603	23,612	23,627	23,750	24,012
Males	10,465	10,609	10,703	10,801	10,916	11,070	11,263
Females	12,742	12,898	12,900	12,811	12,711	12,680	12,749
Annual population increase		58,039	59,514	61,133	62,932	64,845	66,441
No. newly needing ART		47,156	47,180	47,206	47,446	47,964	48,726
CHILDREN (0-14 yrs)							
	2002	2003	2004	2005	2006	2007	2008
HIV population							
Total	9,233	9,295	9,366	9,466	9,612	9,814	10,064
Males	4,637	4,668	4,703	4,754	4,828	4,931	5,058
Females	4,596	4,627	4,663	4,712	4,784	4,883	5,006
New HIV infections							
Total	2,517	2,554	2,609	2,683	2,774	2,878	2,980
Males	1,277	1,296	1,324	1,361	1,407	1,460	1,512
Females	1,240	1,258	1,285	1,322	1,367	1,418	1,468
New AIDS cases							
Total	2,306	2,364	2,418	2,468	2,520	2,576	2,635
Males	1,164	1,193	1,221	1,246	1,273	1,301	1,331
Females	1,142	1,171	1,197	1,222	1,247	1,275	1,304
Annual AIDS deaths							
Total	2,276	2,334	2,389	2,440	2,492	2,548	2,606
Males	1,147	1,177	1,204	1,230	1,257	1,285	1,315
Females	1,129	1,157	1,185	1,210	1,235	1,263	1,291
No. newly needing ART		4,728	4,836	4,936	5,040	5,152	5,270
ORPHANS (0-17 yrs)							
	2002	2003	2004	2005	2006	2007	2008
Maternal orphans							
AIDS	49,128	54,579	59,319	63,278	66,469	68,986	70,953
Non-AIDS	26,757	27,102	27,295	27,339	27,249	27,035	26,719
Total	75,885	81,682	86,613	90,617	93,719	96,021	97,672
Paternal orphans							
AIDS	44,106	48,148	51,752	54,909	57,629	59,955	61,927
Non-AIDS	44,308	45,482	46,464	47,254	47,860	48,295	48,629
Total	88,414	93,630	98,215	102,163	105,488	108,250	110,556
Dual orphans							
AIDS	20,741	23,662	26,320	28,641	30,581	32,135	33,332
Non-AIDS	3,610	3,701	3,766	3,803	3,815	3,800	3,763
Total	24,351	27,364	30,085	32,444	34,396	35,935	37,095
Total orphans	139,947	147,948	154,743	160,336	164,811	168,336	171,133
Total AIDS orphans	72,493	79,065	84,751	89,546	93,517	96,806	99,548

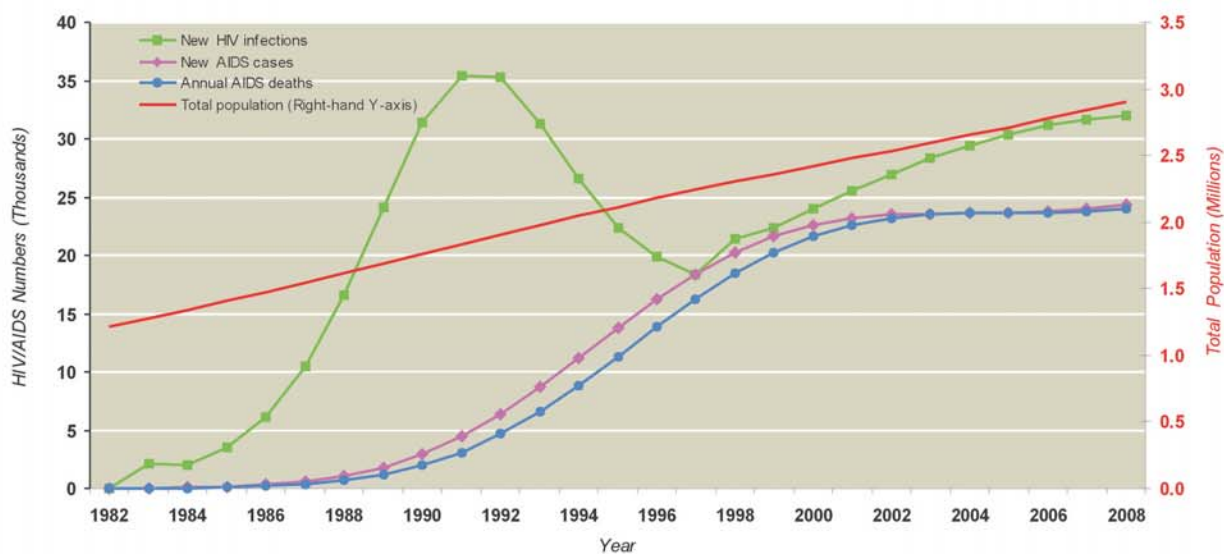
FIGURE 4J.1 Projected Annual No. of Patients Newly Needing ART, by Sex and Age Group, 2004-08, Addis Ababa



Year and Persons Newly Needing ART in Thousands
(Figures rounded and may not add up to total)

FIGURE 4J.2

Estimated and Projected Number of New HIV Infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Addis Ababa



THE HIV/AIDS EPIDEMIC IN DIRE DAWA

The HIV prevalence in Dire Dawa is estimated to be 8.7% for both 2003 and 2004. In the respective years, among the urban population the prevalence is estimated to be both 10.9%. Among the rural population the corresponding estimates are 1.2% and 1.3%. The estimated incidence of HIV was 1.25% in 2003, whereas it was 1.26% in 2004. The incidence is remaining fairly constant in the subsequent years to come.

In Dire Dawa, the urban epidemic seems to be stabilizing after 1999/2000, whereas the rural epidemic shows a rising trend, thus the total regional trend is increasing.

A total of 16,000 and 17,000 persons were estimated to be living with HIV/AIDS in the years 2003 and 2004, respectively. It is also estimated that there were a total of 2,200 and 2,300 new HIV infections in 2003 and 2004, respectively. In the same years, it is estimated that there were a total of 1,500 new AIDS cases. The corresponding figures for the annual AIDS deaths were 1,500.

In 2003 and 2004, there were 1,100 and 1,200 HIV-positive pregnant women. There were 300 HIV positive births each year. In the year 2003, it is estimated that 3,000 persons required ARTs .

Among children, it is estimated that there were a total of 934 and 967 children living with HIV, there were 400 and 300 new HIV infections, 200 and 300 new AIDS cases and correspondingly, there were 200 and 300 deaths, respectively.

It was estimated that there were a total of 4,800 and 5,200 maternal AIDS orphans, 4,200 and 4,600 paternal AIDS orphans and 2,700 and 3,000 dual AIDS orphans in the years 2003 and 2004, respectively.

Despite a stable incidence, new HIV infections, new AIDS cases and annual AIDS deaths show a rising trend, which may be attributed to population increase.

TABLE 4K.1 Major HIV Indicators, Dire Dawa

ALL AGES							
	2002	2003	2004	2005	2006	2007	2008
Adult prevalence (%)							
Total	8.7	8.7	8.7	8.7	8.7	8.8	8.8
Female	10.0	10.0	10.0	10.0	10.1	10.1	10.1
Male	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Urban areas	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Rural areas	1.1	1.2	1.3	1.4	1.5	1.5	1.6
HIV-pos population							
Total	15,566	16,241	16,972	17,742	18,540	19,386	20,262
Males	6,943	7,245	7,575	7,923	8,284	8,666	9,061
Females	8,623	8,996	9,397	9,819	10,256	10,720	11,201
HIV-pos pregnant women	1,077	1,117	1,165	1,214	1,267	1,320	1,372
Annual HIV-pos births	293	304	317	331	345	359	373
New HIV infections							
Total	2,125	2,235	2,339	2,423	2,497	2,597	2,688
Males	978	1,028	1,079	1,123	1,163	1,213	1,257
Females	1,147	1,207	1,260	1,300	1,334	1,384	1,431
Adult HIV incidence (%)	1.25	1.25	1.26	1.24	1.24	1.21	1.21
New AIDS cases							
Total	1,454	1,498	1,543	1,594	1,653	1,722	1,795
Males	672	696	722	751	783	816	851
Females	782	802	821	843	870	906	944
Annual AIDS deaths							
Total	1,412	1,459	1,502	1,547	1,599	1,658	1,727
Males	650	673	698	724	753	785	818
Females	762	786	804	823	846	873	909
Annual population increase		11,439	11,894	12,367	12,864	13,355	13,820
No. newly needing ART		2,996	3,086	3,188	3,306	3,444	3,590
CHILDREN (0-14 yrs)							
	2002	2003	2004	2005	2006	2007	2008
HIV population							
Total	903	934	967	1,005	1,045	1,089	1,135
Males	455	471	488	507	528	549	574
Females	448	463	479	498	517	540	561
New HIV infections							
Total	293	304	317	331	345	359	373
Males	148	154	161	168	175	183	189
Females	145	150	156	163	170	176	184
New AIDS cases							
Total	237	247	258	269	280	291	302
Males	120	125	131	136	142	148	153
Females	117	122	127	133	138	143	149
Annual AIDS deaths							
Total	231	242	252	262	274	285	296
Males	116	122	128	133	139	145	150
Females	115	120	124	129	135	140	146
No. newly needing ART		494	516	538	560	582	604
ORPHANS (0-17 yrs)							
	2002	2003	2004	2005	2006	2007	2008
Maternal orphans							
AIDS	4,321	4,788	5,214	5,598	5,946	6,264	6,562
Non-AIDS	7,403	7,531	7,641	7,732	7,805	7,859	7,900
Total	11,724	12,319	12,855	13,330	13,749	14,123	14,462
Paternal orphans							
AIDS	3,880	4,245	4,590	4,917	5,227	5,521	5,802
Non-AIDS	10,634	10,869	11,081	11,273	11,445	11,595	11,727
Total	14,515	15,114	15,672	16,190	16,671	17,116	17,528
Dual orphans							
AIDS	2,418	2,683	2,925	3,146	3,342	3,513	3,659
Non-AIDS	1,523	1,545	1,560	1,570	1,573	1,570	1,562
Total	3,942	4,228	4,487	4,716	4,917	5,083	5,221
Total orphans	22,297	23,206	24,041	24,803	25,505	26,156	26,769
Total AIDS orphans	5,783	6,350	6,879	7,369	7,831	8,272	8,705

FIGURE 4K.1

Estimated and Projected HIV Prevalence By Year
Adult Population 15-49, Urban, Rural, and Total Diredawa

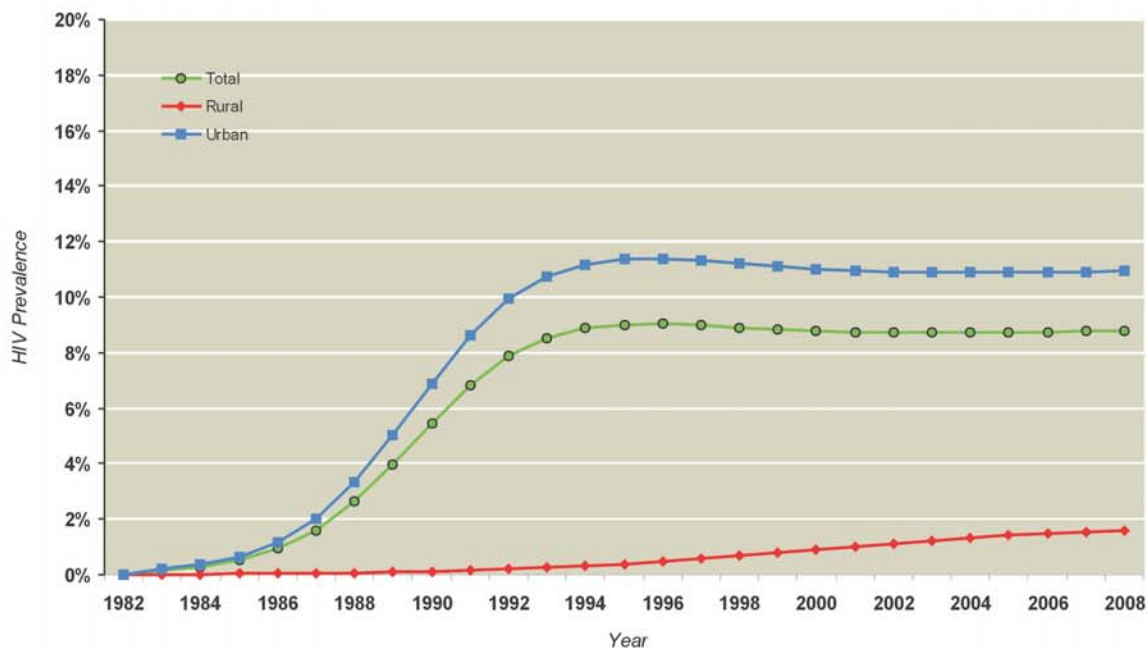
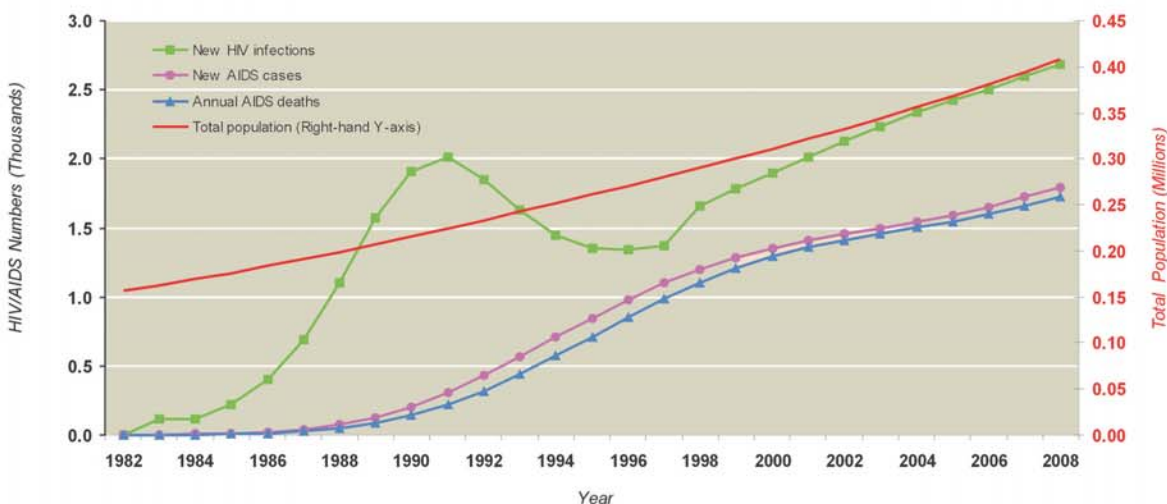


FIGURE 4K.2

Estimated and Projected Number of New HIV Infections,
New AIDS Cases, and Annual AIDS Deaths By Year,
All Ages, Diredawa



Note: The overwhelming majority of the population of this region is urban, thus the total regional prevalence is the reflection of the urban population proportion. The overall prevalence as well as the incidence of HIV is lower than the national rates. The incidence rate, though, show a slightly declining trend, the population growth is contributing to the rise in the number infected, AIDS cases, and AIDS deaths. After slow down up to 1998, there is an acceleration in new HIV infections afterwards.

TABLE 4K.2 Major HIV Indicators, DireDawa Urban

ALL AGES							
	2002	2003	2004	2005	2006	2007	2008
Adult prevalence (%)	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Female	12.2	12.2	12.2	12.2	12.3	12.3	12.3
Male	9.6	9.5	9.5	9.5	9.5	9.5	9.5
HIV-pos population							
Total	15,038	15,652	16,321	17,035	17,785	18,587	19,424
Males	6,709	6,984	7,286	7,609	7,949	8,311	8,688
Females	8,329	8,668	9,035	9,426	9,836	10,276	10,736
HIV-pos pregnant women	1,024	1,059	1,101	1,145	1,194	1,243	1,291
Annual HIV-pos births	279	288	300	312	325	338	351
New HIV infections							
Total	2,027	2,138	2,234	2,318	2,393	2,491	2,579
Males	933	983	1,030	1,074	1,114	1,163	1,206
Females	1,094	1,155	1,204	1,244	1,279	1,328	1,373
Adult HIV incidence (%)	1.59	1.60	1.61	1.59	1.57	1.57	1.56
New AIDS cases							
Total	1,417	1,455	1,494	1,538	1,591	1,653	1,720
Males	654	675	698	724	753	783	816
Females	763	780	796	814	838	870	904
Annual AIDS deaths							
Total	1,380	1,421	1,458	1,497	1,542	1,595	1,657
Males	634	655	677	700	726	755	785
Females	746	766	781	797	816	840	872
Annual population increase		9,635	10,055	10,485	10,939	11,381	11,800
No. newly needing ART		2,910	2,988	3,076	3,182	3,306	3,440
CHILDREN (0-14 yrs)							
	2002	2003	2004	2005	2006	2007	2008
HIV population							
Total	869	895	923	955	990	1,029	1,070
Males	438	451	466	482	500	519	541
Females	431	444	457	473	490	510	529
New HIV infections							
Total	279	288	300	312	325	338	351
Males	141	146	152	158	165	172	178
Females	138	142	148	154	160	166	173
New AIDS cases							
Total	228	237	247	256	266	276	286
Males	115	120	125	130	135	140	145
Females	113	117	122	126	131	136	141
Annual AIDS deaths							
Total	222	232	241	250	260	270	280
Males	112	117	122	127	132	137	142
Females	110	115	119	123	128	133	138
No. newly needing ART		474	494	512	532	552	572
ORPHANS (0-17 yrs)							
	2002	2003	2004	2005	2006	2007	2008
Maternal orphans							
AIDS	4,234	4,680	5,082	5,438	5,755	6,040	6,302
Non-AIDS	5,097	5,219	5,329	5,428	5,515	5,590	5,658
Total	9,331	9,899	10,411	10,866	11,269	11,630	11,960
Paternal orphans							
AIDS	3,801	4,148	4,473	4,777	5,062	5,329	5,581
Non-AIDS	7,284	7,497	7,695	7,878	8,047	8,201	8,342
Total	11,085	11,646	12,169	12,655	13,109	13,530	13,922
Dual orphans							
AIDS	2,392	2,651	2,886	3,095	3,277	3,433	3,565
Non-AIDS	1,027	1,050	1,069	1,084	1,094	1,100	1,102
Total	3,419	3,701	3,956	4,179	4,372	4,533	4,667
Total orphans	16,997	17,844	18,624	19,342	20,007	20,627	21,215
Total AIDS orphans	5,643	6,177	6,669	7,120	7,540	7,936	8,318

FIGURE 4K.3 Projected Annual No. of Patients Newly Needing ART, by Sex and Age Group, 2004-08, Urban Direidawa

Figure 4K.3: Projected Annual No. of Patients Newly Needing ART, by Sex and Age Group, 2004-08, Urban Direidawa

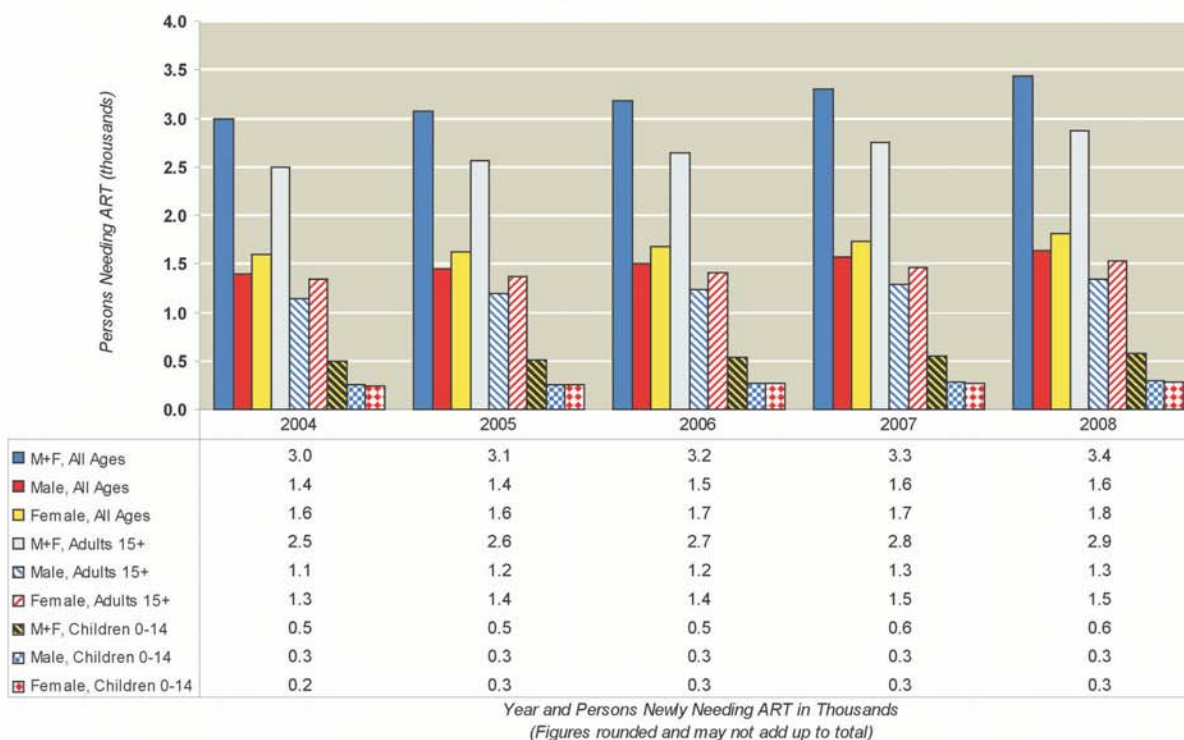


FIGURE 4K.4 Estimated and Projected Number of New HIV Infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Urban Direidawa

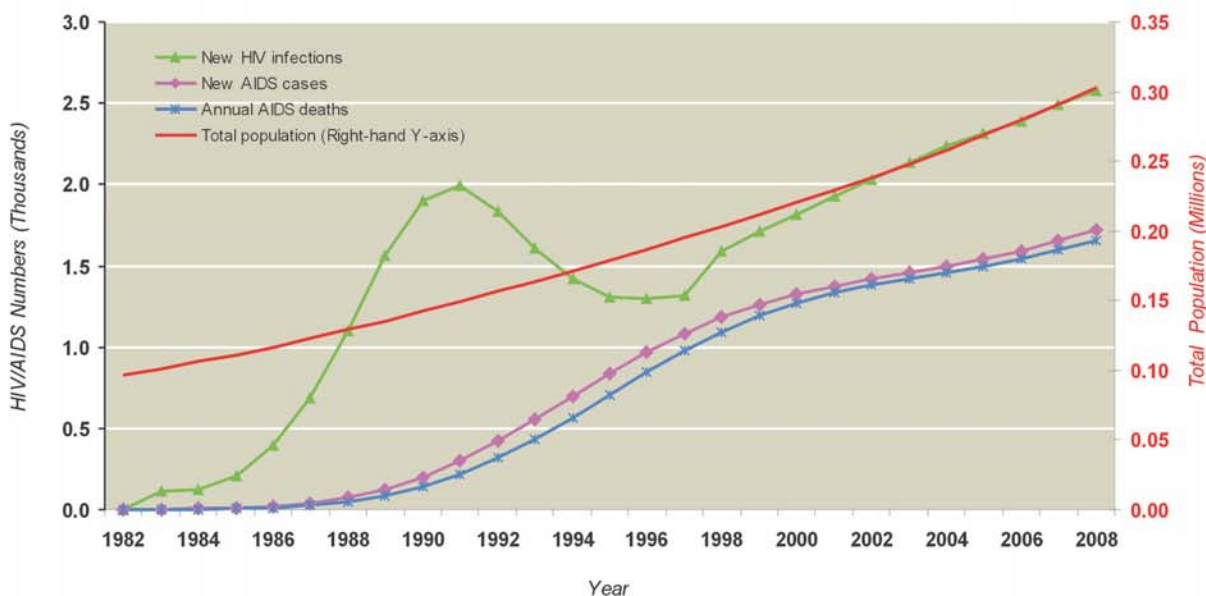
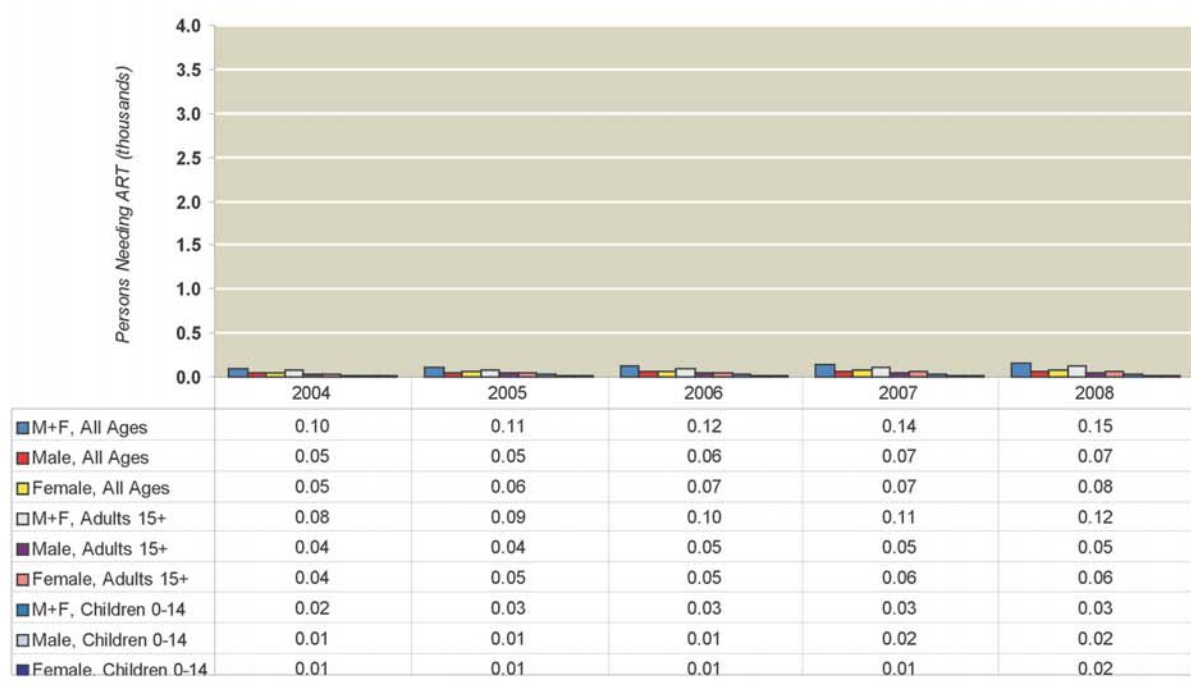


TABLE 4K.3 Major HIV Indicators, Diredawa Rural

ALL AGES							
	2002	2003	2004	2005	2006	2007	2008
Adult prevalence (%)	1.1	1.2	1.3	1.4	1.5	1.5	1.6
Female	1.3	1.5	1.6	1.7	1.8	1.8	1.9
Male	1.0	1.0	1.1	1.2	1.2	1.3	1.3
HIV-pos population							
Total	528	589	651	707	755	799	838
Males	234	261	289	314	335	355	373
Females	294	328	362	393	420	444	465
HIV-pos pregnant women	53	58	64	69	73	77	81
Annual HIV-pos births	14	16	17	19	20	21	22
New HIV infections							
Total	98	97	105	105	104	106	109
Males	45	45	49	49	49	50	51
Females	53	52	56	56	55	56	58
Adult HIV incidence (%)	0.20	0.19	0.21	0.20	0.19	0.19	0.19
New AIDS cases							
Total	37	43	49	56	62	69	75
Males	18	21	24	27	30	33	35
Females	19	22	25	29	32	36	40
Annual AIDS deaths							
Total	32	38	44	50	57	63	70
Males	16	18	21	24	27	30	33
Females	16	20	23	26	30	33	37
Annual population increase		1,804	1,839	1,882	1,925	1,974	2,020
No. newly needing ART		86	98	112	124	138	150
CHILDREN (0-14 yrs)							
	2002	2003	2004	2005	2006	2007	2008
HIV population							
Total	34	39	44	50	55	60	65
Males	17	20	22	25	28	30	33
Females	17	19	22	25	27	30	32
New HIV infections							
Total	14	16	17	19	20	21	22
Males	7	8	9	10	10	11	11
Females	7	8	8	9	10	10	11
New AIDS cases							
Total	9	10	11	13	14	15	16
Males	5	5	6	6	7	8	8
Females	4	5	5	7	7	7	8
Annual AIDS deaths							
Total	9	10	11	12	14	15	16
Males	4	5	6	6	7	8	8
Females	5	5	5	6	7	7	8
No. newly needing ART		20	22	26	28	30	32
ORPHANS (0-17 yrs)							
	2002	2003	2004	2005	2006	2007	2008
Maternal orphans							
AIDS	87	108	132	160	191	224	260
Non-AIDS	2,306	2,312	2,312	2,304	2,290	2,269	2,242
Total	2,393	2,420	2,444	2,464	2,480	2,493	2,502
Paternal orphans							
AIDS	79	97	117	140	165	192	221
Non-AIDS	3,350	3,372	3,386	3,395	3,398	3,394	3,385
Total	3,430	3,468	3,503	3,535	3,562	3,586	3,606
Dual orphans							
AIDS	26	32	39	51	65	80	94
Non-AIDS	496	495	491	486	479	470	460
Total	523	527	531	537	545	550	554
Total orphans	5,300	5,362	5,417	5,461	5,498	5,529	5,554
Total AIDS orphans	140	173	210	249	291	336	387

FIGURE 4K.5 Projected Annual No. of Patients Newly Needing ART, by Sex and Age Group, 2004-08, Rural Diredawa



Year and Persons Newly Needing ART in Thousands
(Figures rounded and may not add up to total)

FIGURE 4K.6 Estimated and Projected Number of New HIV Infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Rural Diredawa

