4K: DIRE DAWA

The HIV/AIDS Epidemic in Dire Dawa Region

Estimates and projections on HIV prevalence and incidence

The HIV prevalence was estimated at 6.8% (7.7% in females and 5.9% in males) in 2005. The HIV prevalence among the urban populations was estimated at 8.5% (9.6% in females and 7.4 % in males). The corresponding estimate among the rural population was 0.9 % (1.0% in females and 0.8 % in males). The estimated HIV incidence was 0.58% in 2005 (0.89 % in urban and 0.09 % in rural areas). The total HIV incidence is expected to slowly increase to its level in 2010 (0.66%) in line with the adult HIV incidence in urban areas of the region. In Dire Dawa region, the urban epidemic is characterized by a gradual increase up to 1998 and by relative stability up to 2002 and then by gradual decline there after. On the other hand, the rural epidemic showed stability after having reached the highest levels in the year 2003. Thus, the over all HIV prevalence for the region has been declining over the last years and will remain so 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 14, 554 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 1, 414, 1,537 and 1, 477 respectively The estimated number of persons requiring ART for 2005 was 3, 188.

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

There were 952 HIV-positive pregnancies in the region in 2005. Similarly, there were 229 HIV positive births in 2005. The numbers of HIV positive pregnancies will keep on increasing while the total number of HIV positive births will decline 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 1, 176 children living with HIV, 229 new HIV infections, 174 new AIDS cases and 159 AIDS deaths among children in the region in 2005.

Estimates and projections on the numbers of AIDS orphans

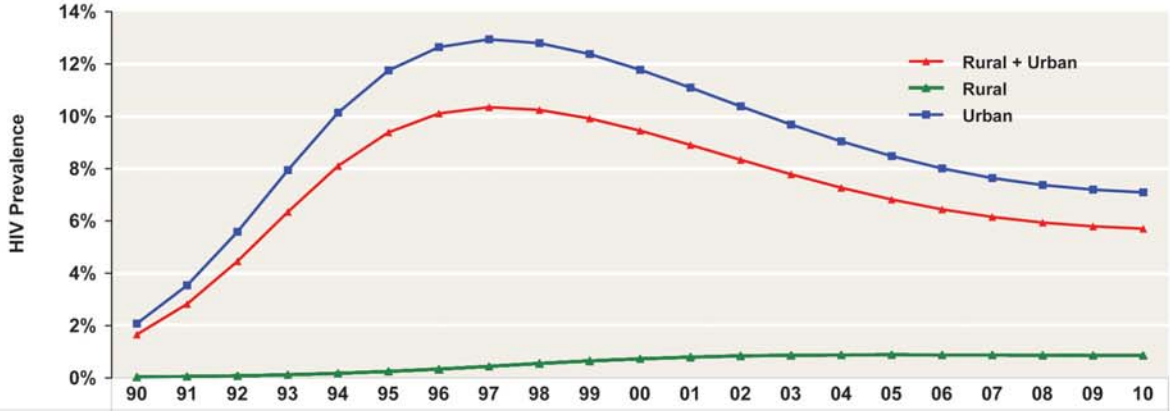
It was estimated that there were a total of 24, 963 orphans in the region in 2005. Of these, were 7, 188 AIDS orphans. Of the AIDS orphans, over one third (3, 081) were dual orphans.

Table 4K1. Major HIV Indicators, Dire Dawa

All Ages							
Adult prevalence (%)	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
Total	7.3	6.8	6.4	6.2	5.9	5.8	5.7
Female	8.2	7.7	7.3	7.0	6.7	6.5	6.5
Male	6.3	5.9	5.6	5.3	5.2	5.0	5.0
HIV-pos population							
Total	14,745	14,554	14,462	14,853	15,611	16,600	17,513
Males	6,612	6,531	6,493	6,672	7,014	7,461	7,871
Females	8,133	8,023	7,969	8,181	8,597	9,139	9,642
HIV-pos pregnant women	970	952	945	968	1,015	1,078	1,135
Annual HIV-pos births	241	229	188	154	136	141	146
New HIV infections							
Total	1,355	1,414	1,478	1,562	1,653	1,748	1,832
Males	629	649	672	709	753	797	834
Females	726	765	806	853	900	951	998
Adult HIV incidence (%)	0.57	0.58	0.60	0.63	0.65	0.66	0.66
New AIDS cases							
Total	1,562	1,537	1,487	1,429	1,378	1,347	1,335
Males	701	691	672	652	636	629	628
Females	861	846	815	777	742	718	707
Annual AIDS deaths							
Total	1,482	1,477	1,080	796	647	801	924
Males	666	661	484	359	292	367	425
Females	816	816	596	437	355	434	499
Population increase	11,932	12,452	13,425	14,286	15,011	14,286	13,425
ART needs	3,205	3,188	3,139	3,375	3,808	4,344	4,483
Children (0-14 yrs)							
HIV population	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
Total	1,140	1,176	1,197	1,226	1,251	1,273	1,279
Males	575	594	604	619	631	642	646
Females	565	582	593	607	620	631	633
New HIV infections							
Total	241	229	188	154	136	141	146
Males	123	117	96	78	69	71	73
Females	118	112	92	76	67	70	73
New AIDS cases							
Total	176	174	161	146	135	133	134
Males	89	88	81	73	68	67	67
Females	87	86	80	73	67	66	67
Annual AIDS deaths							
Total	162	159	108	77	65	76	85
Males	82	80	55	39	32	39	43
Females	80	79	53	38	33	37	42
ART Needs	370	365	346	376	434	498	267
Orphans (0-17 yrs)							
Maternal orphans	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
AIDS	4,877	5,417	5,756	5,881	5,815	5,753	5,730
Non-AIDS	7,726	7,819	7,890	7,946	7,990	8,025	8,048
Total	12,603	13,236	13,646	13,827	13,805	13,778	13,778
Paternal orphans							
AIDS	4,388	4,852	5,321	5,617	5,680	5,658	5,673
Non-AIDS	11,338	11,571	11,797	11,988	12,145	12,273	12,387
Total	15,726	16,423	17,118	17,605	17,825	17,931	18,060
Dual orphans							
AIDS	2,765	3,081	3,346	3,480	3,463	3,394	3,328
Non-AIDS	1,601	1,615	1,624	1,626	1,621	1,609	1,592
Total	4,366	4,696	4,970	5,106	5,084	5,003	4,920
Total orphans	23,963	24,963	25,794	26,326	26,546	26,706	26,918
Total AIDS orphans	6,500	7,188	7,731	8,018	8,032	8,017	8,075

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

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



	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10
Rural + Urban	1.7	2.8	4.5	6.3	8.1	9.4	10.1	10.4	10.2	9.9	9.5	8.9	8.3	7.8	7.3	6.8	6.4	6.2	5.9	5.8	5.7
Rural	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Urban	2.1	3.5	5.6	7.9	10.1	11.7	12.6	12.9	12.8	12.4	11.8	11.1	10.4	9.7	9.0	8.5	8.0	7.6	7.4	7.2	7.1

Year and Estimated HIV Prevalence Values in Percent

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

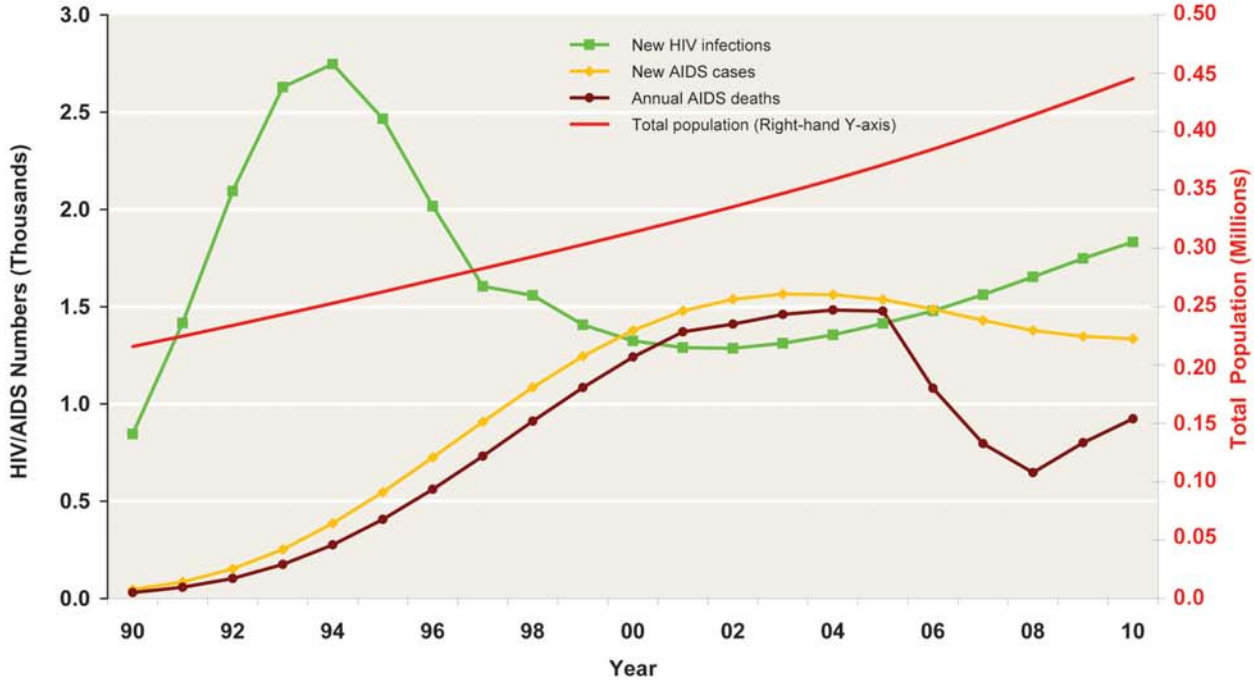
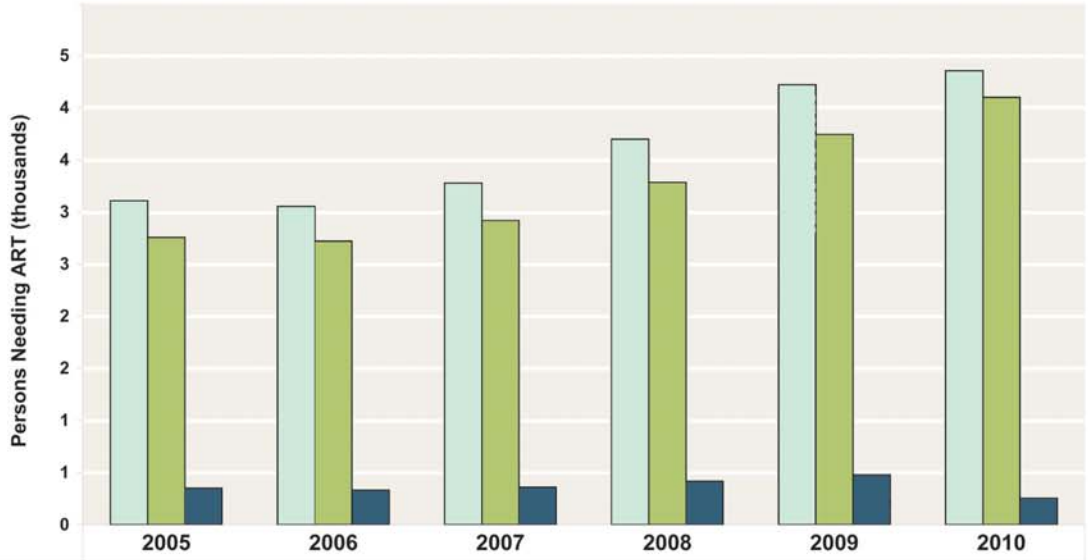


Table 4K2. Major HIV Indicators, Dire Dawa Urban

All Ages							
Adult prevalence (%)	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
Total	9.0	8.5	8.0	7.6	7.4	7.2	7.1
Female	10.2	9.6	9.1	8.6	8.3	8.1	8.0
Male	7.9	7.4	7.0	6.6	6.4	6.3	6.2
HIV-pos population							
Total	14,310	14,105	14,002	14,375	15,114	16,082	16,969
Males	6,419	6,331	6,288	6,459	6,793	7,230	7,628
Females	7,891	7,774	7,714	7,916	8,321	8,852	9,341
HIV-pos pregnant women	928	909	901	923	968	1,029	1,084
Annual HIV-pos births	230	218	178	145	128	133	137
New HIV infections							
Total	1,305	1,365	1,429	1,511	1,601	1,694	1,775
Males	605	625	649	685	729	772	808
Females	700	740	780	826	872	922	967
Adult HIV incidence (%)	0.87	0.89	0.92	0.95	0.98	1.00	1.01
New AIDS cases							
Total	1,526	1,498	1,445	1,385	1,334	1,302	1,288
Males	684	672	653	632	616	608	607
Females	842	826	792	753	718	694	681
Annual AIDS deaths							
Total	1,450	1,441	1,049	765	617	775	891
Males	651	645	470	344	279	354	410
Females	799	796	579	421	338	421	481
Population increase	10,078	10,553	11,467	12,275	12,943	12,275	11,467
ART needs	3,129	3,106	3,052	3,276	3,698	4,221	4,354
Children (0-14 yrs)							
HIV population	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
Total	1,106	1,139	1,157	1,183	1,205	1,225	1,229
Males	558	575	584	597	608	618	621
Females	548	564	573	586	597	607	608
New HIV infections							
Total	230	218	178	145	128	133	137
Males	117	111	91	73	65	67	69
Females	113	107	87	72	63	66	68
New AIDS cases							
Total	169	167	154	139	129	127	127
Males	86	84	78	70	65	64	64
Females	83	83	76	69	64	63	63
Annual AIDS deaths							
Total	155	152	102	72	60	71	79
Males	79	77	52	36	30	36	40
Females	76	75	50	36	30	35	39
ART Needs	356	351	332	360	416	478	254
Orphans (0-17 yrs)							
Maternal orphans	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
AIDS	4,783	5,301	5,620	5,726	5,643	5,572	5,534
Non-AIDS	5,413	5,513	5,599	5,675	5,745	5,811	5,871
Total	10,196	10,814	11,219	11,401	11,388	11,383	11,405
Paternal orphans							
AIDS	4,304	4,749	5,200	5,478	5,524	5,493	5,495
Non-AIDS	7,938	8,161	8,381	8,573	8,738	8,879	9,012
Total	12,242	12,910	13,581	14,051	14,262	14,372	14,507
Dual orphans							
AIDS	2,738	3,047	3,306	3,434	3,410	3,338	3,268
Non-AIDS	1,107	1,127	1,143	1,153	1,158	1,157	1,153
Total	3,845	4,174	4,449	4,587	4,568	4,495	4,421
Total orphans	18,593	19,550	20,351	20,865	21,082	21,260	21,491
Total AIDS orphans	6,349	7,003	7,514	7,770	7,757	7,727	7,761

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

Figure 4K.3: **Projected Annual No. of Patients Needing ART, by Sex and Age Group, 2005- 2010, Dire Dawa Urban**



	2005	2006	2007	2008	2009	2010
M+F, All Ages	3.1	3.1	3.3	3.7	4.2	4.4
M+F, Adults 15+	2.8	2.7	2.9	3.3	3.7	4.1
M+F, Children 0-14	0.4	0.3	0.4	0.4	0.5	0.3

Year and Persons Needing ART (thousands)

Figure 4K.4: **Estimated and Projected Number of New HIV infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Dire Dawa Urban**

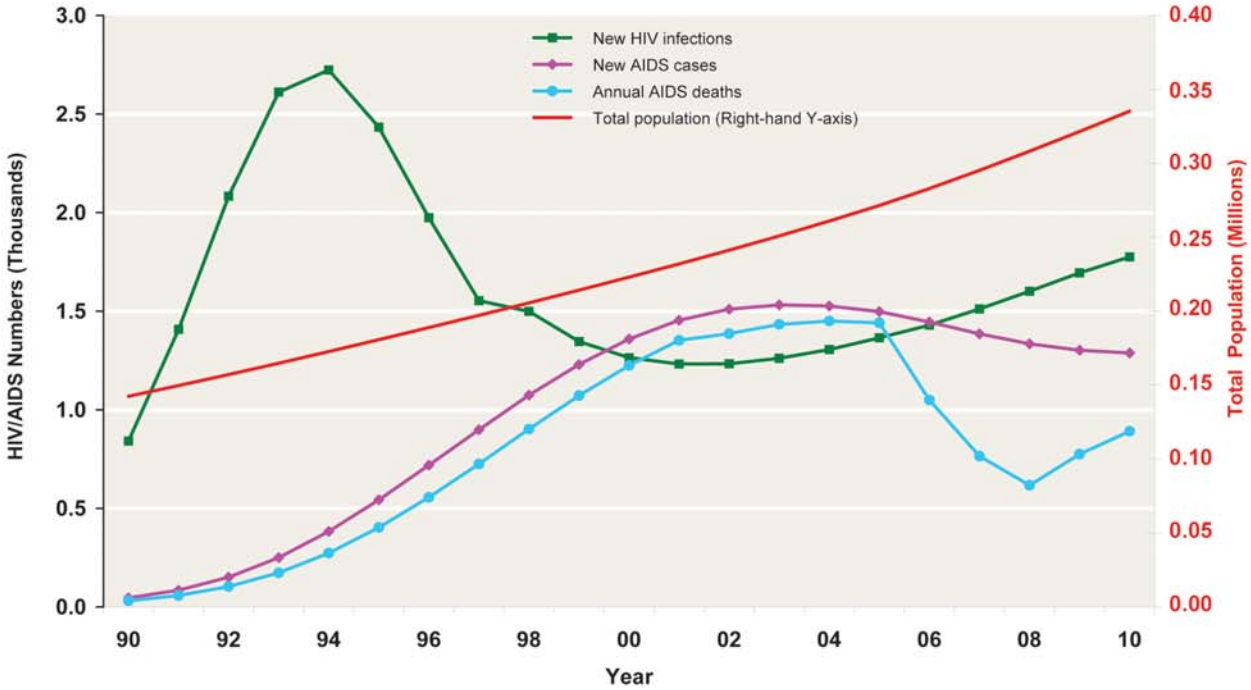
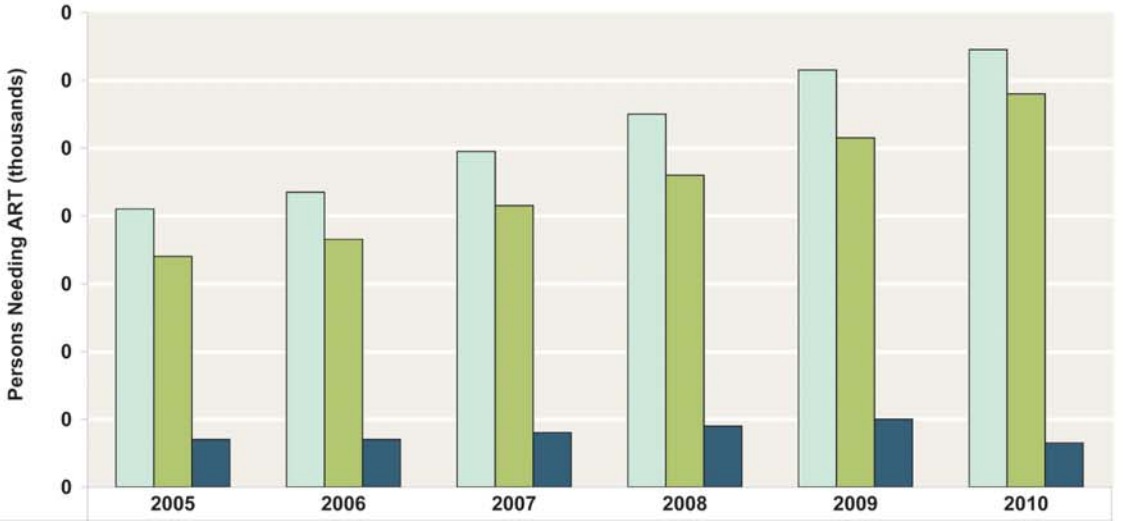


Table 4K3. Major HIV Indicators, Dire Dawa Rural

All Ages							
Adult prevalence (%)	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
Total	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Female	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Male	0.8	0.8	0.8	0.8	0.8	0.7	0.7
HIV-pos population							
Total	435	449	460	478	497	518	544
Males	193	200	205	213	221	231	243
Females	242	249	255	265	276	287	301
HIV-pos pregnant women	42	43	44	45	47	49	51
Annual HIV-pos births	11	11	10	9	8	8	9
New HIV infections							
Total	50	49	49	51	52	54	57
Males	24	24	23	24	24	25	26
Females	26	25	26	27	28	29	31
Adult HIV incidence (%)	0.09	0.09	0.09	0.09	0.09	0.10	0.10
New AIDS cases							
Total	36	39	42	44	44	45	47
Males	17	19	19	20	20	21	21
Females	19	20	23	24	24	24	26
Annual AIDS deaths							
Total	32	36	31	31	30	26	33
Males	15	16	14	15	13	13	15
Females	17	20	17	16	17	13	18
Population increase	1,854	1,899	1,958	2,011	2,068	2,011	1,958
ART needs	76	82	87	99	110	123	129
Children (0-14 yrs)							
HIV population	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
Total	34	37	40	43	46	48	50
Males	17	19	20	22	23	24	25
Females	17	18	20	21	23	24	25
New HIV infections							
Total	11	11	10	9	8	8	9
Males	6	6	5	5	4	4	4
Females	5	5	5	4	4	4	5
New AIDS cases							
Total	7	7	7	7	6	6	7
Males	3	4	3	3	3	3	3
Females	4	3	4	4	3	3	4
Annual AIDS deaths							
Total	7	7	6	5	5	5	6
Males	3	3	3	3	2	3	3
Females	4	4	3	2	3	2	3
ART Needs	14	14	14	16	18	20	13
Orphans (0-17 yrs)							
Maternal orphans	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
AIDS	94	116	136	155	172	181	196
Non-AIDS	2,313	2,306	2,291	2,271	2,245	2,214	2,177
Total	2,407	2,422	2,427	2,426	2,417	2,395	2,373
Paternal orphans							
AIDS	84	103	121	139	156	165	178
Non-AIDS	3,400	3,410	3,416	3,415	3,407	3,394	3,375
Total	3,484	3,513	3,537	3,554	3,563	3,559	3,553
Dual orphans							
AIDS	27	34	40	46	53	56	60
Non-AIDS	494	488	481	473	463	452	439
Total	521	522	521	519	516	508	499
Total orphans	5,370	5,413	5,443	5,461	5,464	5,446	5,427
Total AIDS orphans	151	185	217	248	275	290	314

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

Figure 4K.5: **Projected Annual No. of Patients Needing ART, by Sex and Age Group, 2005- 2010, Dire Dawa Rural**



	2005	2006	2007	2008	2009	2010
M+F, All Ages	0.1	0.1	0.1	0.1	0.1	0.1
M+F, Adults 15+	0.1	0.1	0.1	0.1	0.1	0.1
M+F, Children 0-14	0.0	0.0	0.0	0.0	0.0	0.0

Year and Persons Needing ART (thousands)
(Figures rounded and may not add up to total)

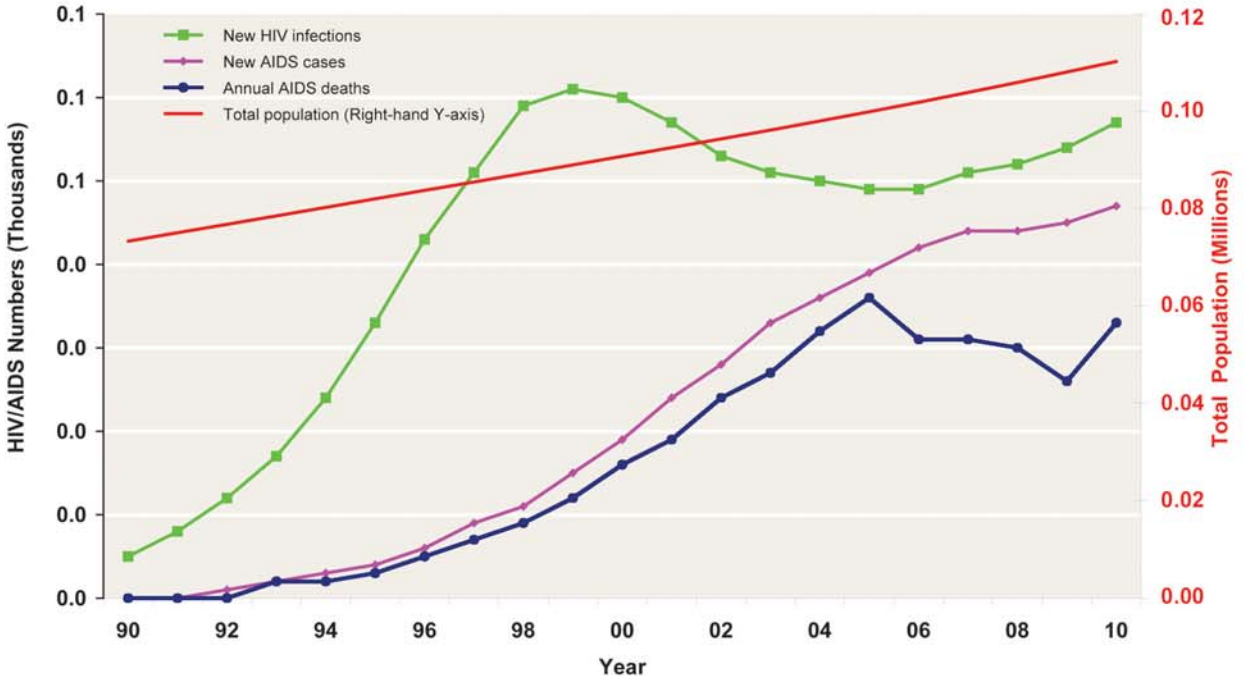



Figure 4K.6: **Estimated and Projected Number of New HIV infections, New AIDS Cases, and Annual AIDS Deaths By Year, All Ages, Dire Dawa Rural**