

## Regional HIV/AIDS Epidemiologic Profile of Western Health Service Region, Massachusetts: 2010

**Table 1. Total number of people reported with HIV infection or AIDS<sup>1</sup> by mortality status on December 31, 2009 Western Health Service Region, Massachusetts**

	N	%
People Living with HIV/AIDS	2,118	58%
People Reported with HIV or AIDS who are Deceased	1,538	42%
<b>Total Number of People Reported with HIV Infection or AIDS</b>	<b>3,656</b>	<b>100%</b>

<sup>1</sup> Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

**Table 2. Average annual rate of HIV infection diagnosis from 2006 to 2008 and HIV/AIDS prevalence rate on 12/31/09<sup>1</sup>: Western Health Service Region, Massachusetts**

<b>Average annual HIV diagnosis rate from 2006–2008</b>	<b>Average rate per 100,000</b>	<b>Average annual number of HIV diagnoses</b>
Western Health Service Region, MA	8.7	72.0
Massachusetts Total	10.3	654.7

  

<b>HIV/AIDS prevalence rate on 12/31/09</b>	<b>Rate per 100,000</b>	<b>Number of people living with HIV/AIDS</b>
Western Health Service Region, MA	257.1	2,118
Massachusetts Total	284.2	18,045

<sup>1</sup> Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

**Table 3. People living with HIV/AIDS<sup>1</sup>, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year<sup>2</sup>: 1999–2008, Western Health Service Region, Massachusetts**

<b>Year</b>	<b>HIV/AIDS Prevalence</b>	<b>Deaths among those with HIV/AIDS</b>	<b>Diagnosis of HIV Infection</b>
1999	1,508	57	197
2000	1,607	60	159
2001	1,700	45	138
2002	1,769	51	120
2003	1,835	58	124
2004	1,929	52	146
2005	1,996	48	115
2006	2,047	45	96
2007	2,075	39	67
2008	2,093	35	53 <sup>3</sup>

<sup>1</sup> Number of People living with HIV/AIDS on 12/31 of each year

<sup>2</sup> Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>3</sup> 2008 HIV diagnosis data are preliminary

Data source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

**Table 4. People diagnosed with HIV infection from 2006–2008<sup>1</sup> and people living with HIV/AIDS on December 31, 2009 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Western Health Service Region, Massachusetts**

	HIV Infection Diagnoses		PLWH/A	
Gender:	N	%	N	%
Male	139	64%	1,329	63%
Female	77	36%	789	37%
Place of Birth:	N	%	N	%
US	142	66%	1,441	68%
Puerto Rico/US Dependency <sup>2</sup>	54	25%	577	27%
Non-US	20	9%	100	5%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	69	32%	623	29%
Black (non-Hispanic)	39	18%	403	19%
Hispanic	106	49%	1,070	51%
Other/Undetermined <sup>3</sup>	2	1%	22	1%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	70	32%	479	23%
Injection Drug Use (IDU)	44	20%	692	33%
MSM/IDU	2	1%	77	4%
Heterosexual Sex	29	13%	395	19%
Other	0	0%	64	3%
Total Undetermined	71	33%	411	19%
• Presumed Heterosexual Sex <sup>4</sup>	50	23%	298	14%
• Undetermined <sup>5</sup>	21	10%	113	5%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2009	
Under 13	0	0%	9	<1%
13 to 19	9	4%	26	1%
20 to 24	11	5%	42	2%
25 to 29	24	11%	61	3%
30 to 34	18	8%	120	6%
35 to 39	40	19%	218	10%
40 to 44	34	16%	410	19%
45 to 49	33	15%	470	22%
50 to 54	27	13%	357	17%
55 to 59	10	5%	236	11%
60+	10	5%	169	8%
<b>Total</b>	<b>216</b>	<b>100%</b>	<b>2,118</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

<sup>3</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>4</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>5</sup> Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up  
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

**Table 5. People living with HIV/AIDS on December 31, 2009 by gender and race/ethnicity: Western Health Service Region, Massachusetts**

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	463	35%	160	20%
Black Non-Hispanic	229	17%	174	22%
Hispanic	623	47%	447	57%
Other/Undetermined <sup>1</sup>	14	1%	8	1%
<b>Total</b>	<b>1,329</b>	<b>100%</b>	<b>789</b>	<b>100%</b>

<sup>1</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

**Table 6. People living with HIV/AIDS on December 31, 2009 by gender and exposure mode: Western Health Service Region, Massachusetts**

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	479	36%	N/A	N/A
Injection drug use (IDU)	455	34%	237	30%
MSM/IDU	77	6%	N/A	N/A
Heterosexual sex	84	6%	311	39%
Other	36	3%	28	4%
Total Undetermined	198	15%	213	27%
• Presumed heterosexual sex <sup>1</sup>	128	10%	170	22%
• Undetermined <sup>2</sup>	70	5%	43	5%
<b>Total</b>	<b>1,329</b>	<b>100%</b>	<b>789</b>	<b>100%</b>

<sup>1</sup> Heterosexual sex with partners with unknown risk and HIV status  
<sup>2</sup> Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up  
 N/A=Not Applicable  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

**Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Western Health Service Region, Massachusetts, before 1999, 1999–2008<sup>1</sup>**

	Male		Female		Total
	N	%	N	%	
< 1999	1,653	68%	761	32%	2,414
1999	125	63%	72	37%	197
2000	108	68%	51	32%	159
2001	93	67%	45	33%	138
2002	81	68%	39	33%	120
2003	83	67%	41	33%	124
2004	91	62%	55	38%	146
2005	76	66%	39	34%	115
2006	59	61%	37	39%	96
2007	45	67%	22	33%	67
2008 <sup>2</sup>	35	66%	18	34%	53

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> 2008 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

**Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Western Health Service Region, Massachusetts, before 1999, 1999–2008<sup>1</sup>**

	White NH		Black NH		Hispanic		Other/ Undetermined <sup>2</sup>		Total
	N	%	N	%	N	%	N	%	
< 1999	874	36%	508	21%	1,026	43%	6	<1%	2,414
1999	55	28%	36	18%	104	53%	2	1%	197
2000	44	28%	36	23%	77	48%	2	1%	159
2001	46	33%	22	16%	69	50%	1	1%	138
2002	37	31%	27	23%	55	46%	1	1%	120
2003	37	30%	25	20%	59	48%	3	2%	124
2004	33	23%	40	27%	71	49%	2	1%	146
2005	32	28%	21	18%	58	50%	4	3%	115
2006	29	30%	16	17%	50	52%	1	1%	96
2007	21	31%	12	18%	34	51%	0	0%	67
2008 <sup>3</sup>	19	36%	11	21%	22	42%	1	2%	53

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>3</sup> 2008 data are preliminary

NH = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

**Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Western Health Service Region, Massachusetts, before 1999, 1999–2008<sup>1</sup>**

	US		Puerto Rico/ US Dependency <sup>2</sup>		Non-US		Total
	N	%	N	%	N	%	
< 1999	1,701	70%	658	27%	55	2%	<b>2,414</b>
1999	132	67%	62	31%	3	2%	<b>197</b>
2000	115	72%	36	23%	8	5%	<b>159</b>
2001	91	66%	40	29%	7	5%	<b>138</b>
2002	80	67%	27	23%	13	11%	<b>120</b>
2003	93	75%	25	20%	6	5%	<b>124</b>
2004	88	60%	40	27%	18	12%	<b>146</b>
2005	70	61%	35	30%	10	9%	<b>115</b>
2006	64	67%	23	24%	9	9%	<b>96</b>
2007	43	64%	17	25%	7	10%	<b>67</b>
2008 <sup>3</sup>	35	66%	14	26%	4	8%	<b>53</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

<sup>3</sup> 2008 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

**Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Western Health Service Region, Massachusetts, before 1999, 1999–2008<sup>1</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>2</sup>		Undeter- mined <sup>3</sup>		Total N
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
<1999	538	22%	1,109	46%	106	4%	360	15%	92	4%	126	5%	83	3%	<b>2,414</b>
1999	38	19%	71	36%	8	4%	42	21%	4	2%	28	14%	6	3%	<b>197</b>
2000	35	22%	55	35%	8	5%	29	18%	2	1%	24	15%	6	4%	<b>159</b>
2001	35	25%	55	40%	2	1%	20	14%	1	1%	16	12%	9	7%	<b>138</b>
2002	28	23%	36	30%	3	3%	24	20%	1	1%	22	18%	6	5%	<b>120</b>
2003	32	26%	29	23%	7	6%	21	17%	2	2%	22	18%	11	9%	<b>124</b>
2004	28	19%	33	23%	5	3%	27	18%	3	2%	38	26%	12	8%	<b>146</b>
2005	28	24%	35	30%	2	2%	18	16%	0	0%	22	19%	10	9%	<b>115</b>
2006	28	29%	24	25%	1	1%	12	13%	0	0%	23	24%	8	8%	<b>96</b>
2007	22	33%	14	21%	1	1%	7	10%	0	0%	15	22%	8	12%	<b>67</b>
2008 <sup>4</sup>	20	38%	6	11%	0	0%	10	19%	0	0%	12	23%	5	9%	<b>53</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>3</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

<sup>4</sup> 2008 data are preliminary

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

**Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Western Health Service Region, Massachusetts, 1999–2008<sup>1</sup>**

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
1999	51	197	26%
2000	46	159	29%
2001	36	138	26%
2002	26	120	22%
2003	26	124	21%
2004	46	146	32%
2005	36	115	31%
2006	21	96	22%
2007	22	67	33%
2008 <sup>2</sup>	16	53	30%

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> 2008 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

**Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Western Health Service Region, Massachusetts, 2006–2008<sup>1</sup>**

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
<b>Gender:</b>	<b>N</b>	<b>N</b>	<b>%</b>
Male	44	139	32%
Female	15	77	19%
<b>Race/Ethnicity:</b>	<b>N</b>	<b>N</b>	<b>%</b>
White (non-Hispanic)	21	69	30%
Black (non-Hispanic)	14	39	36%
Hispanic	23	106	22%
Other/Undetermined <sup>2</sup>	1	2	50%
<b>Place of Birth:</b>	<b>N</b>	<b>N</b>	<b>%</b>
US	46	142	32%
Puerto Rico/US Dependencies <sup>3</sup>	9	54	17%
Non-US	4	20	20%
<b>Total</b>	<b>59</b>	<b>216</b>	<b>27%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>3</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10