



# WASHINGTON STATE HIV SURVEILLANCE QUARTERLY REPORT 4th QUARTER 2012

Office of Infectious Disease Assessment Unit (360) 236-3455

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**Publication Schedule:** This report reflects events occurring through December 31, 2011 and reported by December 31, 2012, unless otherwise stated. Reports are published four times a year.

## HIV IN WASHINGTON: AN OVERVIEW

- In Washington, the first case of AIDS was diagnosed in 1982.
- More than 18,000 people in Washington have been diagnosed with HIV disease. Over 5,000 people have died as a result of the disease.
- Recently, the number of new HIV cases in Washington has remained steady: about 550 new cases per year, on average.
- Treatment for HIV disease is both effective and widely available. Most people with HIV survive long after diagnosis.
- By the end of 2011, more than 11,000 people were reported to be living with HIV across Washington State.

Figure 1. Average HIV Rates by County, 2007-2011<sup>^</sup>

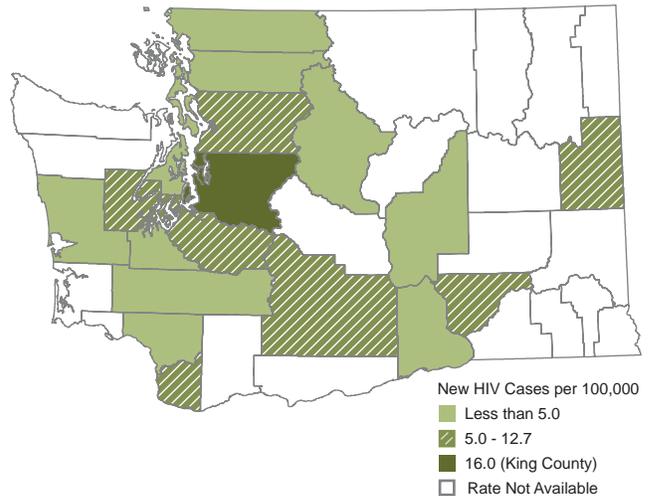


Figure 2. New HIV Cases, AIDS Cases, and Deaths from HIV or AIDS, 2002-2011<sup>^</sup>

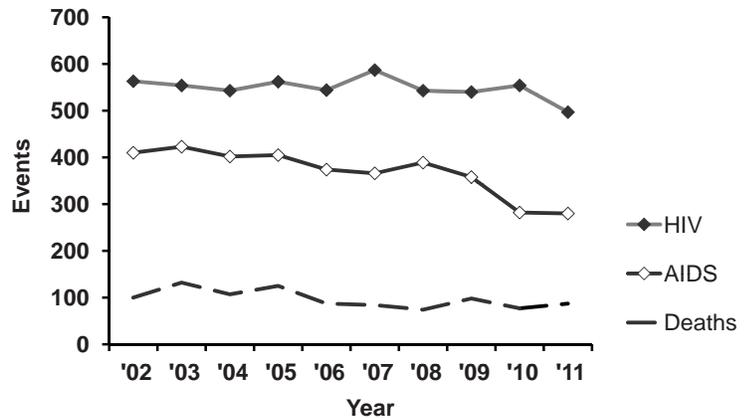
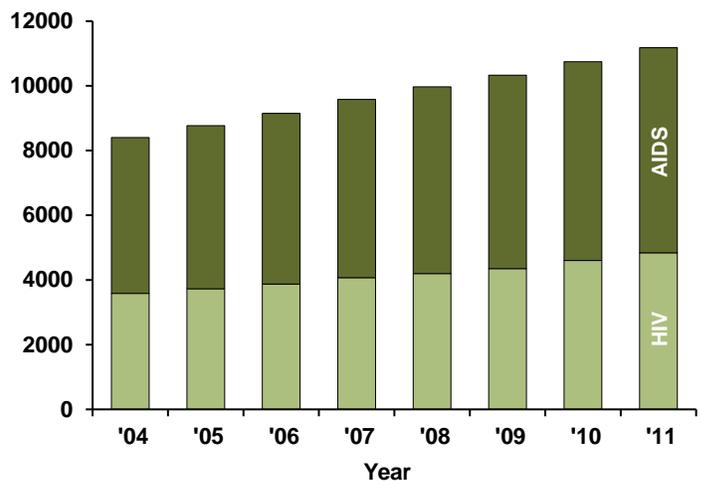


Figure 3. Living Cases of HIV Disease, 2004-2011<sup>^</sup>



<sup>^</sup>Case counts and rates are more accurate than prior versions. See Technical Note on page 2

## ACKNOWLEDGEMENTS AND CONTACT INFORMATION

Our thanks to the health providers who care for people with HIV/AIDS, to our local health jurisdiction partners, and to the medical laboratories - all of whom work diligently to ensure the timely and complete reporting of cases. These data are used to support the allocation of HIV prevention and care resources, to conduct program planning and evaluation, and to educate the public about the HIV epidemic in Washington.

For more information, or to receive a copy of this report, please contact:

Washington State Department of Health  
Infectious Disease Assessment Unit  
PO Box 47838, Olympia, WA 98504-7838  
Phone: 360-236-3455 Email: HIV\_Surv@doh.wa.gov  
<http://www.doh.wa.gov/DataandStatisticalReports/DiseasesandChronicConditions/HIVAIDSData.aspx>

**TECHNICAL NOTE: This version replaces the previous four HIV Surveillance Quarterly Reports (4<sup>th</sup> quarter 2011 and 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> quarters 2012). These reports incorrectly summarized the number of HIV/AIDS cases by counting some cases more than once. The size of the overstatement ranged from 18 to 166 cases per quarter. This issue has been resolved with this report.**

## DEVELOPMENTS

### New HIV Incidence Estimates Released for Washington State

Washington State is currently one of 25 states that receive federal funding to conduct HIV Incidence Surveillance. This supplemental surveillance program helps estimate HIV incidence for our state and the nation. HIV incidence is defined as the number of new HIV infections that occur in a population during a given time period. New HIV case counts have long been used to both determine the scale and direction of the HIV epidemic and describe HIV risk populations. However, questions remain regarding just how well HIV diagnosis data perform these functions. Nationally, the U.S. Centers for Disease Control and Prevention (CDC) estimates that approximately 47,500 people were newly infected with HIV in 2010.

In collaboration with Public Health- Seattle & King County (PHSKC), the Department of Health recently calculated local HIV incidence estimates for Washington State and King County between 2007 and 2011. An evaluation of these estimates, and how they compare to HIV case counts, will be featured in the 2nd Half 2012 edition of the HIV/AIDS Epidemiology Report (in press). Here is a brief description of that evaluation.

We estimated annual HIV incidence among Washington State residents ages 13 and older between 2007 and 2011. These estimates were then compared to annual HIV case counts. Our estimates were based on data and remnant sera collected from individuals who were diagnosed with HIV infection during the same time frame and reported to the state's HIV surveillance system as of January 2013. Our methods are based on the same stratified extrapolation approach used by CDC to produce national incidence estimates. The method takes into account local HIV testing patterns, use of antiretroviral therapy, as well the results of a laboratory test that can determine whether HIV infection was recent.

Between 2007 and 2011, statewide HIV incidence estimates ranged from 390 to 541. Our findings indicate that a great deal of agreement exists between estimated incidence and actual count data. Similarities exist both with regard to absolute and stratified totals, as well as the distribution of values across demographic, risk, and geographic strata. Both incidence estimates and case counts data suggest that

- 4 out of 5 recent HIV infections are among males,
- 3 out of 4 are gay or bisexual men,
- roughly half reside in King County, and
- more than one third are gay/bisexual men who reside in the city of Seattle.

This high degree of corroboration reinforces the notion that the new HIV case counts serve as a reasonable proxy measure for HIV incidence, and that case-based HIV surveillance data do a reasonably good job of describing the state's HIV epidemic.

In 2012, the Washington State HIV Prevention Planning group established an ambitious goal to reduce annual HIV incidence among gay and bisexual men living in Seattle by 50% by 2017. Current incidence estimates suggest that this risk population experiences roughly 170 new HIV infections each year, or more than one third of all incident infections across the state. A 50% reduction in HIV incidence within this group would require the prevention of 85 new infections each year. If successful, the direct impact of this achievement would be to reduce statewide HIV incidence by more than 17%.

*For more information about HIV incidence surveillance, contact Jason Carr at (360) 236-3462, or [Jason.Carr@doh.wa.gov](mailto:Jason.Carr@doh.wa.gov)*

## HOW HIV SURVEILLANCE WORKS IN WASHINGTON STATE

Health care providers, laboratories, and local health departments are required by law to report HIV- and AIDS-related information according to the requirements listed below. Identifying and reporting new HIV cases helps state and local health departments develop programs that reduce the spread of HIV. Case reporting also helps assure that people living with HIV receive treatment as early as possible, and that partners who have been exposed to the virus receive HIV testing. Federal funding for HIV prevention and treatment is based on case counts. Our state benefits the most when HIV surveillance is complete, accurate, and timely. Copies of the case report form can be found at the Department of Health website: <http://www.doh.wa.gov/notify/forms/>.

For federal funding purposes, all states and territories count HIV/AIDS cases in the same manner. An individual gets counted as an HIV case in the county in which he/she is residing at the time of his/her initial HIV diagnosis (not including a diagnosis made from an anonymous test). Once that person progresses to AIDS, he/she is counted as an AIDS case in the county

in which he/she is residing at the time of his/her AIDS diagnosis. An AIDS case is no longer counted as an HIV case. States are continually working with each other to ensure that cases are counted in only one state. Once a person is diagnosed with AIDS, he/she remains an AIDS case even if his/her health later improves. Within Washington State, county-level case counts can go down if we learn that a person's earliest diagnosis of HIV or AIDS actually occurred while he/she resided in another state or county. Also, a county's HIV case count can go down over time if their HIV cases progress to AIDS while residing outside the county.

For epidemiologic purposes, it is helpful to evaluate all cases of HIV and AIDS as part of one combined group: people who have been diagnosed with HIV disease. For this report, geographic assignment of a new HIV case is based on residence at the time of a person's initial HIV diagnosis, regardless of whether he/she later progressed to AIDS. Living cases are presumed to be in the same place they resided when their most recent diagnosis of HIV or AIDS occurred.

### HIV/AIDS Reporting Requirements:

REPORTING	ITEM TO REPORT	TIMELINE	TO WHOM
Health care providers	HIV or AIDS diagnosis	3 working days	Local health department
Health care facilities	HIV or AIDS diagnosis	3 working days	HIV to local health department AIDS to state health department
Laboratories	Any test result that indicates HIV infection (including a positive Western blot)	2 working days	Inside King Co.: Public Health-Seattle & King Co. (PHSKC) Outside King Co.: State health department
Laboratories	All CD4 results (absolute and %); all HIV viral load results	Monthly	Inside King Co.: PHSKC Outside King Co.: State health department
Local health departments	HIV and AIDS	Within 7 days of completion or 21 days of notification	State health department

**DEFINITIONS**

**AIDS:** Acquired Immune Deficiency Syndrome. An advanced stage of HIV disease which is defined by the existence of certain opportunistic illnesses or other clinical outcomes. The presence of AIDS is usually suggests that a person has been HIV-positive for a many years.

**Case:** A person with HIV disease who has been diagnosed and reported to the health department while living in Washington. This report does not describe the results of anonymous HIV testing.

**Case Rate:** The number of reported cases divided by the number of people residing in a given area and presumed to be at risk for disease, based on population estimates. In this report, rates are described as cases per 100,000 residents.

**CD4 Count:** The concentration of a certain type of white blood cell circulating within a person’s body. CD4 count provides a good indication of a patient’s stage of HIV illness.

**Confidence Interval (CI):** A range of values within which the true value is likely to exist. In this report, we use 95% confidence intervals to describe the reliability of disease rates.

**Cumulative HIV Cases:** The total number of HIV cases ever reported, as of a specific point in time. Cumulative cases include people who are both living and deceased.

**Exposure Category:** The manner in which a case was most likely to have been infected by HIV, based on reported risk behaviors. Categories are arranged in a hierarchy. A case can only be assigned to one exposure category at any give time.

**Foreign-born:** This term is used to describe people born outside the United States. If information about country of birth is missing, a case is presumed to be foreign-born.

**Gender:** A person’s sex at birth, either male or female.

**HIV:** Human Immunodeficiency Virus. The virus that causes HIV disease, including AIDS.

**HIV/AIDS Deaths:** Deaths caused by HIV or AIDS. We use death certificate information to determine whether HIV or AIDS was a contributing factor in a patient’s death.

**HIV Diagnosis Date:** The earliest, documented date when a person was diagnosed with HIV disease, with or without AIDS.

**HIV Incidence:** The number of people newly infected with HIV during a specified time period, often a calendar year. We can only estimate HIV incidence. This report does not include estimates of HIV incidence.

**HIV Prevalence:** The total number of people living with HIV disease at a specific point in time. We can only estimate HIV prevalence. This report does not include estimates of HIV prevalence.

**HIV Surveillance:** The ongoing and systematic collection, evaluation, and dissemination of population-based information about people diagnosed with HIV disease.

**Late HIV Diagnosis:** This describes the event in which a case is diagnosed with AIDS within 12 months of HIV diagnosis. A late HIV diagnosis indicates that a person was probably not getting routinely tested for HIV before the diagnosis occurred.

**Living HIV Case:** A case of HIV disease that has been diagnosed while living in Washington, reported to the health department, and is presumed living at a specific point in time. A living HIV case can also be described as a prevalent HIV case.

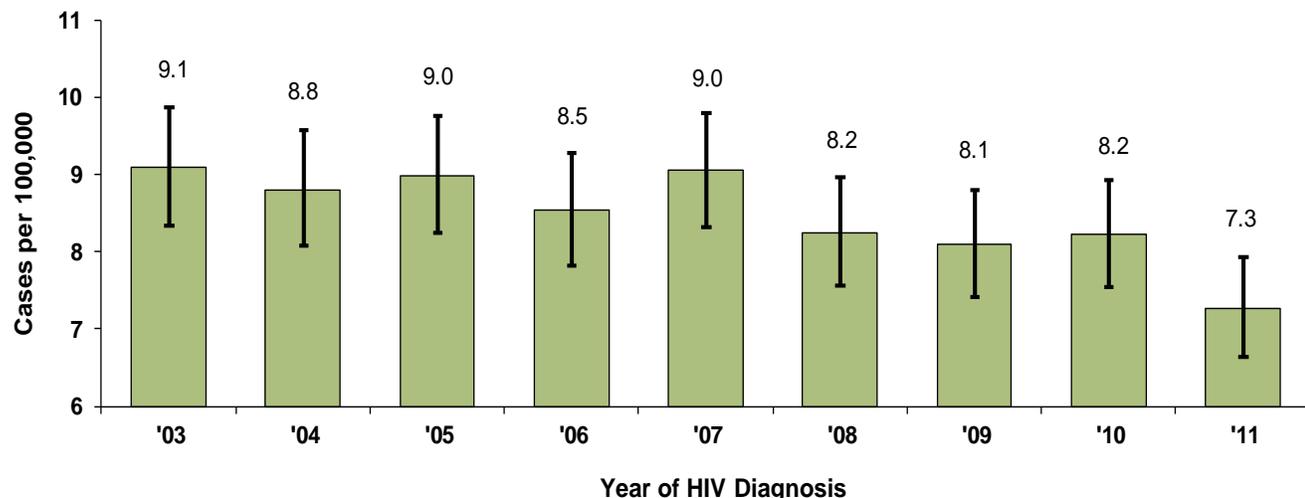
**New HIV Case:** A newly case of HIV disease, with or without AIDS, that has been diagnosed while living in Washington.

**Reporting Delay:** This refers to the length of time between when a case is diagnosed and when the case is reported to the health department. In Washington state, most cases are reported within 6 months.

**Viral Load:** This is the concentration of viral copies circulating within a person’s body. Viral load is a good indication of whether a person is receiving effective treatment for HIV disease.

**STATISTICS: NEW HIV CASES**

Figure 4. New HIV Case Rates by Year of HIV Diagnosis, 2003-2011<sup>^</sup>



<sup>^</sup>Case rates are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: NEW HIV CASES (continued)

Table 1. New HIV Cases, 2007-2011<sup>^</sup>

Year of HIV diagnosis:	Newly Diagnosed Cases of HIV Disease							Late HIV Diagnoses		
	2006 No.	2007 No.	2008 No.	2009 No.	2010 No.	2011 No.	2007-2011 No. %	Rate	2006-2010* %	
<b>Total</b>	544	587	543	540	554	497	2,721 100%	8.2	34%	
<b>Gender</b>										
Male	461	489	447	453	484	429	2,302 85%	13.9	36%	
Female	83	98	96	87	70	68	419 15%	2.5	28%	
<b>Age at HIV Diagnosis</b>										
< 20	13	21	17	22	21	12	93 3%	1.0	17%	
20 - 29	139	156	146	141	149	131	723 27%	15.1	19%	
30 - 39	174	170	162	155	170	142	799 29%	18.0	35%	
40 - 49	144	148	126	136	122	119	651 24%	13.5	42%	
50 - 59	59	67	60	65	73	61	326 12%	7.0	52%	
60+	15	25	32	21	19	32	129 5%	2.2	54%	
<b>Race and Hispanic Origin</b>										
White	347	346	290	317	318	282	1,553 57%	6.1	30%	
Black	83	105	102	91	82	90	470 17%	41.6	38%	
Hispanic (all races)	64	90	95	84	102	75	446 16%	14.0	41%	
Asian	24	22	28	25	24	28	127 5%	5.8	49%	
Native Hawaiian / Pacific Islander	5	3	0	2	1	6	12 0%	7.9	---	
American Indian / Alaska Native	6	6	12	6	9	5	38 1%	7.7	49%	
Multiple Race	15	15	16	15	18	11	75 3%	8.0	28%	
Hispanic only:										
- White	36	46	32	31	29	40	178 7%	6.3	41%	
- Black	2	2	3	2	0	1	8 0%	---	---	
- Multiple / Other Race	6	6	2	7	6	2	23 1%	---	---	
- Unknown Race	20	36	58	44	67	32	237 9%	---	44%	
<b>Exposure Category by Gender</b>										
Male only:										
- Male / Male Sex (MSM)	313	336	298	317	350	295	1,596 59%	---	30%	
- Injecting Drug Use (IDU)	22	21	16	17	22	19	95 3%	---	48%	
- MSM and IDU	44	48	31	40	23	42	184 7%	---	28%	
- Heterosexual Contact	19	12	20	13	19	9	73 3%	---	65%	
- Pediatric	3	0	1	2	7	4	14 1%	---	---	
- Transfusion / Hemophiliac	0	0	0	0	0	0	0 0%	---	---	
- No Identified Risk	60	72	81	64	63	60	340 12%	---	57%	
Female only:										
- Injecting Drug Use	18	12	9	7	9	13	50 2%	---	---	
- Heterosexual Contact	54	71	68	62	48	32	281 10%	---	32%	
- Pediatric	0	2	1	7	3	2	15 1%	---	---	
- Transfusion / Hemophiliac	0	1	1	0	0	0	2 0%	---	---	
- No Identified Risk	11	12	17	11	10	21	71 3%	---	26%	

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

\*Based on new HIV cases diagnosed between 2006 and 2010

<sup>^</sup>Case counts, percents and rates are more accurate than prior versions. See Technical Note on page 2

STATISTICS: NEW HIV CASES (continued)

Table 2. New HIV Cases by Foreign-Born Status and Other Select Characteristics, 2007-2011<sup>^</sup>

Characteristic:	Proportion of Cases with Select Characteristic at HIV Diagnosis						Total	
	Male %	Age > 30 years %	MSM %	Hetero- sexual %	Late HIV Diagnosis* %	Live in King Co. %	No.	%
<b>U.S.-Born</b>								
White	90%	72%	78%	8%	31%	57%	1,410	73%
Black	78%	59%	56%	22%	28%	57%	257	13%
Hispanic (all races)	87%	56%	71%	10%	30%	57%	136	7%
Asian	85%	75%	85%	5%	40%	75%	20	1%
Native Hawaiian / Pacific Islander	86%	29%	86%	14%	71%	43%	7	0%
American Indian / Alaska Native	72%	67%	39%	33%	56%	25%	36	2%
Multiple Race	89%	51%	72%	11%	23%	59%	61	3%
<b>Total</b>	<b>88%</b>	<b>68%</b>	<b>74%</b>	<b>10%</b>	<b>31%</b>	<b>57%</b>	<b>1,927</b>	<b>100%</b>
<b>Foreign-Born</b>								
White	86%	83%	63%	8%	33%	46%	143	18%
Black	48%	72%	9%	38%	44%	67%	213	27%
Hispanic (all races)	90%	74%	58%	13%	44%	50%	310	39%
Asian	82%	77%	52%	14%	49%	61%	107	13%
Native Hawaiian / Pacific Islander	80%	80%	80%	20%	60%	40%	5	1%
American Indian / Alaska Native	50%	0%	0%	50%	0%	50%	2	0%
Multiple Race	79%	79%	57%	21%	50%	36%	14	2%
<b>Total</b>	<b>77%</b>	<b>75%</b>	<b>45%</b>	<b>19%</b>	<b>43%</b>	<b>55%</b>	<b>794</b>	<b>100%</b>

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

\*Based on new HIV cases diagnosed between 2006 and 2010

<sup>^</sup>Case counts and percents are more accurate than prior versions. See Technical Note on page 2

Figure 5. New HIV Case Rates by Race/Ethnicity and Gender, Washington State, 2007-2011<sup>^</sup>

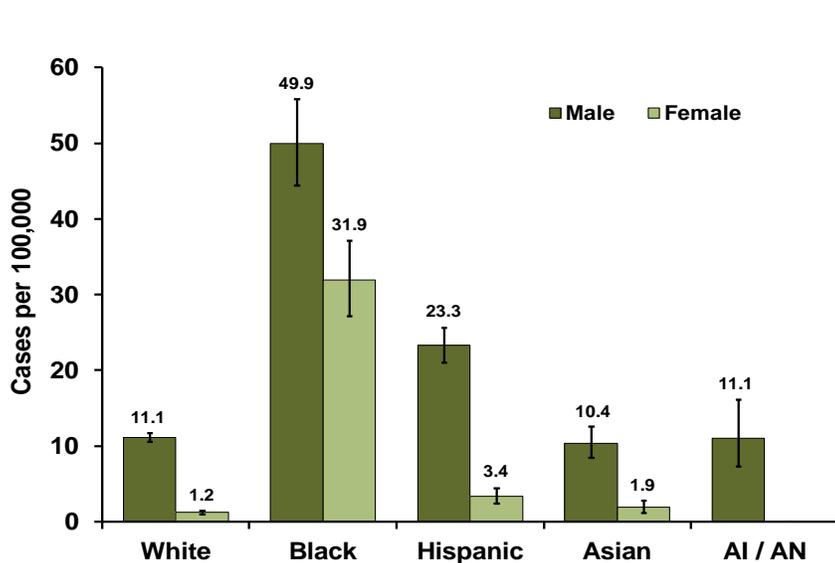
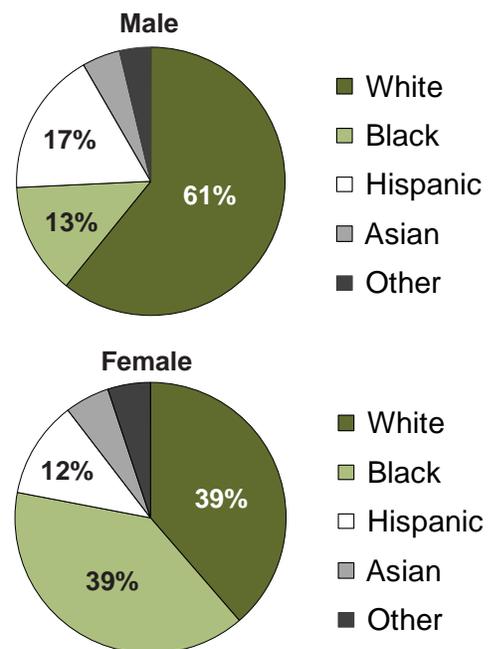


Figure 6. New HIV Cases by Gender and Race/Ethnicity, 2007-2011<sup>^</sup>



<sup>^</sup>Case rates and percents are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: NEW HIV CASES (continued)

Table 3. New HIV Cases by County and Combined Local Health District (HD)^

Year of HIV diagnosis:	Newly Diagnosed Cases of HIV Disease							Cumulative Diagnoses		Late HIV Diagnoses		
	2006 No.	2007 No.	2008 No.	2009 No.	2010 No.	2011 No.	2007-2011 No.	%	Rate	1982-2011 No.	%	2006-2010 %
Adams Co.	0	0	0	1	0	1	2	0%	---	8	0%	---
Asotin Co.	1	0	1	2	2	1	6	0%	---	26	0%	---
Benton Co.	9	5	1	6	6	13	31	1%	3.7	141	1%	44%
Benton-Franklin HD	11	8	6	12	10	14	50	2%	4.1	228	1%	47%
Chelan Co.	4	3	1	3	5	4	16	1%	4.4	78	0%	---
Chelan-Douglas HD	4	5	1	4	7	5	22	1%	4.0	88	0%	---
Clallam Co.	1	0	2	3	1	3	9	0%	---	82	0%	---
Clark Co.	21	41	17	20	33	28	139	5%	6.5	733	4%	39%
Columbia Co.	0	2	0	0	0	0	2	0%	---	6	0%	---
Cowlitz Co.	6	5	5	4	5	4	23	1%	4.6	154	1%	---
Douglas Co.	0	2	0	1	2	1	6	0%	---	10	0%	---
Ferry Co.	0	1	0	0	0	0	1	0%	---	8	0%	---
Franklin Co.	2	3	5	6	4	1	19	1%	5.2	87	0%	---
Garfield Co.	0	0	0	0	0	0	0	0%	---	1	0%	---
Grant Co.	3	3	3	1	3	3	13	0%	3.0	56	0%	---
Grays Harbor Co.	2	2	6	0	5	4	17	1%	4.8	94	1%	---
Island Co.	2	2	3	8	3	1	17	1%	4.2	90	0%	---
Jefferson Co.	3	1	0	0	0	0	1	0%	---	37	0%	---
King Co.	305	318	317	301	322	273	1,531	56%	16.0	11,743	63%	31%
Kitsap Co.	13	7	7	10	2	6	32	1%	2.6	322	2%	41%
Kittitas Co.	3	0	0	0	0	0	0	0%	---	25	0%	---
Klickitat Co.	2	1	0	0	0	0	1	0%	---	16	0%	---
Lewis Co.	4	1	2	4	0	5	12	0%	3.2	66	0%	---
Lincoln Co.	0	0	0	0	0	0	0	0%	---	4	0%	---
Mason Co.	1	7	8	3	11	7	36	1%	12.7	130	1%	---
NE Tri-County HD	2	1	1	1	0	1	4	0%	---	46	0%	---
Okanogan Co.	0	1	3	3	0	1	8	0%	---	41	0%	---
Pacific Co.	2	2	1	1	0	0	4	0%	---	32	0%	---
Pend Oreille Co.	1	0	0	0	0	0	0	0%	---	9	0%	---
Pierce Co.	58	61	59	61	61	55	297	11%	7.3	1,708	9%	27%
San Juan Co.	1	1	0	1	2	0	4	0%	---	29	0%	---
Skagit Co.	5	3	4	1	4	5	17	1%	2.9	104	1%	---
Skamania Co.	0	0	0	1	0	0	1	0%	---	9	0%	---
Snohomish Co.	45	43	36	42	32	32	185	7%	5.3	1,092	6%	42%
Spokane Co.	23	36	26	18	21	27	128	5%	5.5	776	4%	38%
Stevens Co.	1	0	1	1	0	1	3	0%	---	29	0%	---
Thurston Co.	9	15	8	12	12	6	53	2%	4.3	300	2%	38%
Wahkiakum Co.	0	0	0	0	0	0	0	0%	---	3	0%	---
Walla Walla Co.	1	0	3	0	0	0	3	0%	---	65	0%	---
Whatcom Co.	8	9	10	8	1	6	34	1%	3.5	245	1%	39%
Whitman Co.	1	0	2	1	1	1	5	0%	---	23	0%	---
Yakima Co.	7	12	12	17	16	8	65	2%	5.5	290	2%	56%
<b>Statewide Total</b>	<b>544</b>	<b>587</b>	<b>543</b>	<b>540</b>	<b>554</b>	<b>497</b>	<b>2,721</b>	<b>100%</b>	<b>8.2</b>	<b>18,672</b>	<b>100%</b>	<b>34%</b>

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

Note: Percentages (%) are rounded to the nearest whole number. Actual values may be less than they appear (e.g. 0.7% = "1%").

^Case counts and rates are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: NEW HIV CASES (continued)

Table 4. First CD4 Test Results among New HIV Cases, 2007-2011<sup>^</sup>

CD4 count, cells/ $\mu$ L:	Stage of Infection at HIV Diagnosis (among cases with CD4 information)				Median CD4 Count	Cases with CD4 Information		Total Cases
	$\geq 500$	350-499	200-349	< 200		No.	% of total	
	%	%	%	%	cells/ $\mu$ L			No.
<b>Total</b>	30%	20%	19%	31%	348	2,222	82%	2,721
<b>Gender</b>								
Male	29%	20%	19%	32%	341	1,887	82%	2,302
Female	36%	21%	16%	27%	384	335	80%	419
<b>Age at HIV Diagnosis</b>								
< 20	58%	21%	12%	9%	561	66	71%	93
20 - 29	37%	27%	21%	15%	415	551	76%	723
30 - 39	29%	21%	19%	31%	346	672	84%	799
40 - 49	27%	16%	19%	38%	296	549	84%	651
50 - 59	22%	13%	17%	48%	210	272	83%	326
60+	20%	13%	17%	51%	189	112	87%	129
<b>Race and Hispanic Origin</b>								
White	34%	20%	17%	28%	382	1,279	82%	1,553
Black	29%	20%	20%	31%	339	369	79%	470
Hispanic (all races)	21%	19%	21%	39%	290	368	83%	446
Asian	17%	17%	21%	45%	228	108	85%	127
Native Hawaiian / Pacific Islander	0%	18%	18%	64%	66	11	92%	12
American Indian / Alaska Native	27%	12%	15%	45%	234	33	87%	38
Multiple Race	28%	24%	26%	22%	358	54	72%	75
Hispanic only:								
- White	26%	17%	22%	35%	297	144	81%	178
- Black	33%	0%	33%	33%	227	6	75%	8
- Multiple / Other Race	31%	38%	6%	25%	420	16	70%	23
- Unknown Race	16%	20%	21%	43%	280	202	85%	237
<b>Exposure Category by Gender</b>								
Male only:								
- Male / Male Sex (MSM)	33%	22%	19%	26%	382	1,343	84%	1,596
- Injecting Drug Use (IDU)	20%	15%	16%	49%	205	75	79%	95
- MSM and IDU	32%	23%	23%	21%	388	142	77%	184
- Heterosexual Contact	13%	10%	18%	58%	162	60	82%	73
- Pediatric	80%	10%	0%	10%	1,296	10	71%	14
- Transfusion / Hemophiliac	---	---	---	---	---	0	---	0
- No Identified Risk	13%	8%	17%	61%	140	257	76%	340
Female only:								
- Injecting Drug Use	31%	31%	18%	21%	389	39	78%	50
- Heterosexual Contact	34%	18%	19%	29%	363	230	82%	281
- Pediatric	82%	0%	9%	9%	797	11	73%	15
- Transfusion / Hemophiliac	100%	0%	0%	0%	729	1	50%	2
- No Identified Risk	33%	30%	6%	31%	385	54	76%	71

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

<sup>^</sup>Case counts, percents and rates are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: NEW HIV CASES (continued)

**Table 5. First CD4 Test Results among New HIV Cases, by County and Combined Local Health District (HD), 2007-2011<sup>^</sup>**

CD4 count, cells/ $\mu$ L:	Stage of Infection at HIV Diagnosis (among cases with CD4 information)				Median CD4 Count	Cases with CD4 Information		Total Cases
	$\geq 500$	350-499	200-349	< 200		No.	% of total	
	%	%	%	%	cells/ $\mu$ L			No.
Adams Co.	0%	0%	50%	50%	110	2	100%	2
Asotin Co.	33%	0%	33%	33%	325	6	100%	6
Benton Co.	25%	25%	7%	43%	354	28	90%	31
Benton-Franklin HD	23%	27%	9%	41%	352	44	88%	50
Chelan Co.	21%	14%	7%	57%	125	14	88%	16
Chelan-Douglas HD	20%	15%	10%	55%	152	20	91%	22
Clallam Co.	0%	20%	0%	80%	21	5	56%	9
Clark Co.	17%	18%	17%	47%	209	98	71%	139
Columbia Co.	0%	50%	0%	50%	227	2	100%	2
Cowlitz Co.	23%	0%	38%	38%	220	13	57%	23
Douglas Co.	17%	17%	17%	50%	197	6	100%	6
Ferry Co.	0%	0%	100%	0%	335	1	100%	1
Franklin Co.	19%	31%	13%	38%	316	16	84%	19
Garfield Co.	---	---	---	---	---	0	---	0
Grant Co.	9%	36%	0%	55%	165	11	85%	13
Grays Harbor Co.	29%	14%	7%	50%	230	14	82%	17
Island Co.	58%	8%	0%	33%	745	12	71%	17
Jefferson Co.	0%	0%	100%	0%	249	1	100%	1
King Co.	32%	22%	20%	26%	375	1,347	88%	1,531
Kitsap Co.	14%	25%	25%	36%	273	28	88%	32
Kittitas Co.	---	---	---	---	---	0	---	0
Klickitat Co.	100%	0%	0%	0%	801	1	100%	1
Lewis Co.	45%	18%	9%	27%	493	11	92%	12
Lincoln Co.	---	---	---	---	---	0	---	0
Mason Co.	18%	6%	24%	53%	170	17	47%	36
NE Tri-County HD	0%	0%	50%	50%	180	2	50%	4
Okanogan Co.	17%	0%	0%	83%	12	6	75%	8
Pacific Co.	50%	0%	50%	0%	513	2	50%	4
Pend Oreille Co.	---	---	---	---	---	0	---	0
Pierce Co.	31%	18%	18%	33%	330	187	63%	297
San Juan Co.	33%	0%	0%	67%	160	3	75%	4
Skagit Co.	27%	20%	13%	40%	263	15	88%	17
Skamania Co.	0%	0%	100%	0%	315	1	100%	1
Snohomish Co.	28%	18%	21%	34%	307	149	81%	185
Spokane Co.	33%	17%	15%	36%	349	103	80%	128
Stevens Co.	0%	0%	0%	100%	24	1	33%	3
Thurston Co.	39%	8%	13%	39%	327	38	72%	53
Wahkiakum Co.	---	---	---	---	---	0	---	0
Walla Walla Co.	0%	33%	0%	67%	151	3	100%	3
Whatcom Co.	41%	5%	14%	41%	341	22	65%	34
Whitman Co.	40%	0%	0%	60%	191	5	100%	5
Yakima Co.	15%	9%	20%	56%	169	54	83%	65
<b>Statwide Total</b>	<b>30%</b>	<b>20%</b>	<b>19%</b>	<b>31%</b>	<b>348</b>	<b>2,222</b>	<b>82%</b>	<b>2,721</b>

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

<sup>^</sup>Case counts and percents are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: PEOPLE LIVING WITH HIV

**Table 6. People Living with HIV Disease as of December 31, 2011<sup>^</sup>**

	HIV (not AIDS)			AIDS			All Cases of HIV Disease		
	No.	%	Rate	No.	%	Rate	No.	%	Rate
<b>Total</b>	4,768	100%	69.7	6,290	100%	92.0	11,058	100%	161.7
<b>Gender</b>									
Male	4,051	85%	118.8	5,477	87%	160.6	9,528	86%	279.3
Female	717	15%	20.9	813	13%	23.7	1,530	14%	44.6
<b>Current age</b>									
< 20	64	1%	3.6	11	0%	0.0	75	1%	4.2
20 - 29	571	12%	57.6	192	3%	19.4	763	7%	76.9
30 - 39	1,102	23%	124.0	874	14%	98.3	1,976	18%	222.3
40 - 49	1,663	35%	174.8	2,427	39%	255.1	4,090	37%	429.9
50 - 59	1,012	21%	104.7	2,002	32%	207.1	3,014	27%	311.8
60+	356	7%	28.6	784	12%	62.9	1,140	10%	91.5
<b>Race and Hispanic Origin*</b>									
White	3,252	68%	63.7	4,169	66%	81.6	7,421	67%	145.3
Black	728	15%	307.8	953	15%	403.0	1,681	15%	710.8
Hispanic (all races)	512	11%	73.5	755	12%	108.4	1,267	11%	181.9
Asian	136	3%	29.1	188	3%	40.2	324	3%	69.3
Native Hawaiian / Pacific Islander	11	0%	---	30	0%	92.7	41	0%	126.7
American Indian / Alaska Native	51	1%	49.8	101	2%	98.6	152	1%	148.5
Multiple Race	72	2%	36.8	88	1%	45.0	160	1%	81.9
Hispanic only:									
- White	178	4%	28.8	171	3%	27.7	349	3%	56.5
- Black	14	0%	---	19	0%	103.6	33	0%	180.0
- Multiple / Other Race	29	1%	---	17	0%	---	46	0%	---
- Unknown Race	291	6%	---	548	9%	---	839	8%	---
<b>Exposure Category by Gender</b>									
Male only:									
- Male / Male Sex (MSM)	3,109	65%	---	3,777	60%	---	6,886	62%	---
- Injecting Drug Use (IDU)	163	3%	---	343	5%	---	506	5%	---
- MSM and IDU	354	7%	---	588	9%	---	942	9%	---
- Heterosexual Contact	115	2%	---	280	4%	---	395	4%	---
- Pediatric	24	1%	---	9	0%	---	33	0%	---
- Transfusion / Hemophiliac	6	0%	---	36	1%	---	42	0%	---
- No Identified Risk	288	6%	---	432	7%	---	724	7%	---
Female only:									
- Injecting Drug Use	109	2%	---	172	3%	---	281	3%	---
- Heterosexual Contact	483	10%	---	555	9%	---	1,038	9%	---
- Pediatric	27	1%	---	12	0%	---	39	0%	---
- Transfusion / Hemophiliac	6	0%	---	13	0%	---	19	0%	---
- No Identified Risk	92	2%	---	61	1%	---	153	1%	---

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

\* Section excludes 12 cases (6 with HIV, 6 with AIDS) for which we do not have information about race or ethnicity.

<sup>^</sup>Case counts, percents and rates are more accurate than prior versions. See Technical Note on page 2

STATISTICS: PEOPLE LIVING WITH HIV (continued)

**Table 7. Living HIV Cases\* by Exposure Category, Gender and Race/Ethnicity, as of December 31, 2011<sup>^</sup>**

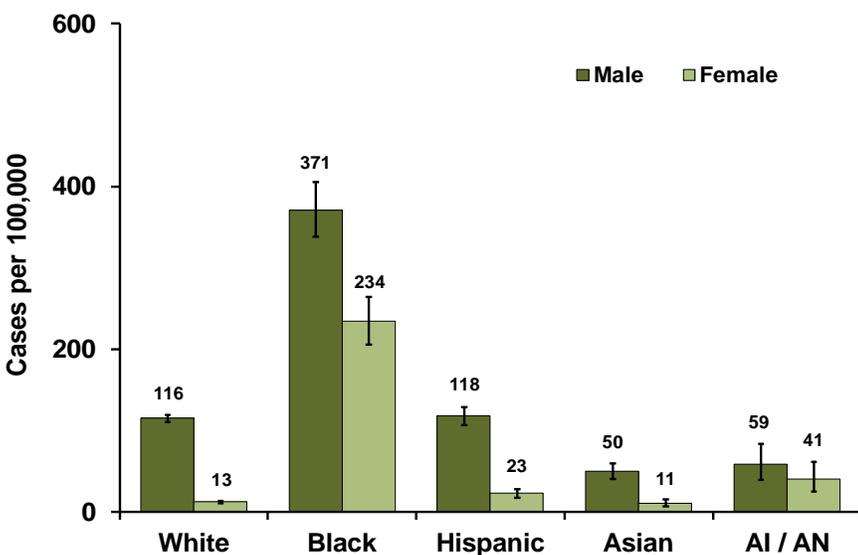
Exposure category	White		Black		Hispanic		Asian		American Indian / Alaska Native	
	No.	%	No.	%	No.	%	No.	%	No.	%
<b>Males:</b>										
Male / Male Sex (MSM)	5,228	78%	561	49%	729	66%	182	71%	57	56%
Injecting Drug Use (IDU)	318	5%	93	8%	69	6%	7	3%	12	12%
MSM and IDU	746	11%	64	6%	80	7%	6	2%	20	20%
Heterosexual Contact	134	2%	168	15%	67	6%	14	5%	8	8%
Pediatric	7	0%	20	2%	2	0%	1	0%	1	1%
Transfusion / Hemophiliac	37	1%	3	0%	2	0%	0	0%	0	0%
No Identified Risk	275	4%	227	20%	159	14%	48	19%	4	4%
<b>Total Males</b>	<b>6,745</b>	<b>100%</b>	<b>1,136</b>	<b>100%</b>	<b>1,108</b>	<b>100%</b>	<b>258</b>	<b>100%</b>	<b>102</b>	<b>100%</b>
<b>Females:</b>										
Injecting Drug Use (IDU)	180	27%	58	11%	17	11%	3	5%	16	32%
Heterosexual Contact	433	64%	382	70%	120	75%	48	73%	33	66%
Pediatric	8	1%	23	4%	5	3%	3	5%	0	0%
Transfusion / Hemophiliac	6	1%	9	2%	1	1%	3	5%	0	0%
No Identified Risk	49	7%	73	13%	16	10%	9	14%	1	2%
<b>Total Females</b>	<b>676</b>	<b>100%</b>	<b>545</b>	<b>100%</b>	<b>159</b>	<b>100%</b>	<b>66</b>	<b>100%</b>	<b>50</b>	<b>100%</b>

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

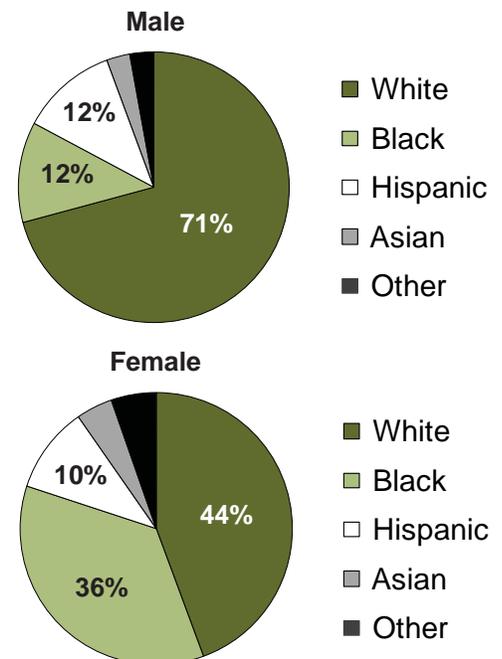
\* Table excludes 41 Native Hawaiian and Pacific Islander cases due to small numbers. Also excluded are 160 cases reported as belonging to more than one racial or ethnic group, and 12 cases that are missing any information about race or ethnicity.

<sup>^</sup>Case counts and percents are more accurate than prior versions. See Technical Note on page 2

**Figure 7. Living HIV Case Rates by Race/Ethnicity and Gender, as of December 31, 2011<sup>^</sup>**



**Figure 8. Living HIV Cases by Gender and Race/Ethnicity, as of December 31, 2011<sup>^</sup>**



<sup>^</sup>Case rates and percents are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: PEOPLE LIVING WITH HIV (continued)

**Table 8. People Living with HIV Disease by County and Combined Local Health District (HD), as of December 31, 2011<sup>^</sup>**

	HIV (not AIDS)			AIDS			All Cases of HIV Disease		
	No.	%	Rate	No.	%	Rate	No.	%	Rate
Adams Co.	0	0%	---	6	0%	---	6	0%	---
Asotin Co.	6	0%	---	12	0%	55.0	18	0%	82.5
Benton Co.	39	1%	22.2	68	1%	38.7	107	1%	61.0
Benton-Franklin HD	65	1%	25.6	110	2%	43.3	175	2%	68.9
Chelan Co.	23	0%	31.0	24	0%	32.3	47	0%	63.3
Chelan-Douglas HD	26	1%	22.9	28	0%	24.7	54	0%	47.7
Clallam Co.	17	0%	24.0	24	0%	33.9	41	0%	58.0
Clark Co.	201	4%	45.1	264	4%	59.2	465	4%	104.3
Columbia Co.	0	0%	---	4	0%	---	4	0%	---
Cowlitz Co.	44	1%	43.5	45	1%	44.5	89	1%	88.0
Douglas Co.	3	0%	---	4	0%	---	7	0%	---
Ferry Co.	0	0%	---	1	0%	---	1	0%	---
Franklin Co.	26	1%	33.2	42	1%	53.6	68	1%	86.8
Garfield Co.	1	0%	---	0	0%	---	1	0%	---
Grant Co.	13	0%	14.5	23	0%	25.7	36	0%	40.2
Grays Harbor Co.	19	0%	26.5	36	1%	50.1	55	0%	76.6
Island Co.	22	0%	26.8	27	0%	32.9	49	0%	59.6
Jefferson Co.	9	0%	---	13	0%	44.0	22	0%	74.4
King Co.	3,031	64%	154.8	3,833	61%	195.8	6,864	62%	350.6
Kitsap Co.	75	2%	30.0	116	2%	46.4	191	2%	76.4
Kittitas Co.	3	0%	---	11	0%	---	14	0%	33.8
Klickitat Co.	6	0%	---	2	0%	---	8	0%	---
Lewis Co.	10	0%	---	23	0%	30.1	33	0%	43.2
Lincoln Co.	0	0%	---	2	0%	---	2	0%	---
Mason Co.	37	1%	63.1	57	1%	97.2	94	1%	160.3
NE Tri-County HD	6	0%	---	8	0%	---	14	0%	21.1
Okanogan Co.	7	0%	---	17	0%	41.4	24	0%	58.4
Pacific Co.	12	0%	54.1	9	0%	---	21	0%	94.7
Pend Oreille Co.	0	0%	---	3	0%	---	3	0%	---
Pierce Co.	470	10%	56.6	534	8%	64.3	1,004	9%	120.8
San Juan Co.	6	0%	---	11	0%	---	17	0%	101.8
Skagit Co.	23	0%	18.9	35	1%	28.8	58	1%	47.7
Skamania Co.	0	0%	---	1	0%	---	1	0%	---
Snohomish Co.	274	6%	37.9	423	7%	58.5	697	6%	96.4
Spokane Co.	178	4%	37.2	262	4%	54.8	440	4%	92.1
Stevens Co.	6	0%	---	4	0%	---	10	0%	---
Thurston Co.	73	2%	28.1	115	2%	44.3	188	2%	72.4
Wahkiakum Co.	1	0%	---	2	0%	---	3	0%	---
Walla Walla Co.	7	0%	---	24	0%	40.0	31	0%	51.7
Whatcom Co.	57	1%	28.7	85	1%	42.8	142	1%	71.5
Whitman Co.	5	0%	---	14	0%	32.0	19	0%	43.4
Yakima Co.	64	1%	26.5	114	2%	47.2	178	2%	73.7
<b>Statewide Total</b>	<b>4,768</b>	<b>100%</b>	<b>69.7</b>	<b>6,290</b>	<b>100%</b>	<b>92.0</b>	<b>11,058</b>	<b>100%</b>	<b>161.7</b>

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

Note: Percentages (%) are rounded to the nearest whole number. Actual values may be less than they appear (e.g. 0.7% = "1%").

<sup>^</sup>Case counts, percents and rates are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: PEOPLE LIVING WITH HIV (continued)

**Table 9. Viral Load Test Results (Last 12 Months) among Living HIV Cases, as of December 31, 2011<sup>^</sup>**

Viral Load, copies/mL:	Viral Load Results in 2011 (among cases with VL information)			Mean Viral Load copies/mL	Cases with a Viral Load Result in 2011		Total Cases No.
	High VL ≥ 100,000	201 - 99,999	Suppressed VL ≤ 200		No.	% of total	
	%	%	%				
<b>Total</b>	4%	14%	82%	771	6,717	61%	11,058
<b>Gender</b>							
Male	4%	14%	83%	731	5,772	61%	9,528
Female	3%	18%	79%	1,061	945	62%	1,530
<b>Age at HIV Diagnosis</b>							
< 20	0%	19%	81%	1,679	67	89%	75
20 - 29	10%	32%	59%	4,039	487	64%	763
30 - 39	5%	21%	74%	1,403	1,215	61%	1,976
40 - 49	3%	13%	84%	644	2,460	60%	4,090
50 - 59	2%	10%	88%	355	1,838	61%	3,014
60+	2%	5%	92%	231	650	57%	1,140
<b>Race and Hispanic Origin*</b>							
White	3%	13%	84%	587	4,522	61%	7,421
Black	3%	18%	79%	1,228	1,003	60%	1,681
Hispanic (all races)	5%	18%	77%	1,589	728	57%	1,267
Asian	2%	12%	86%	605	214	66%	324
Native Hawaiian / Pacific Islander	6%	25%	69%	3,104	36	88%	41
American Indian / Alaska Native	6%	15%	79%	1,723	99	65%	152
Multiple Race	6%	23%	71%	1,953	111	69%	160
Hispanic only:							
- White	8%	22%	71%	3,307	217	62%	349
- Black	5%	19%	76%	2,062	21	64%	33
- Multiple / Other Race	3%	21%	76%	1,041	29	63%	46
- Unknown Race	3%	16%	81%	1,043	461	55%	839
<b>Exposure Category by Gender</b>							
Male only:							
- Male / Male Sex (MSM)	3%	13%	84%	637	4,274	62%	6,886
- Injecting Drug Use (IDU)	3%	19%	78%	845	267	53%	506
- MSM and IDU	7%	18%	75%	1,398	573	61%	942
- Heterosexual Contact	3%	7%	89%	478	209	53%	395
- Pediatric	4%	18%	79%	1,827	28	85%	33
- Transfusion / Hemophiliac	0%	11%	89%	173	28	67%	42
- No Identified Risk	5%	15%	81%	1,078	393	54%	724
Female only:							
- Injecting Drug Use	6%	19%	75%	1,296	163	58%	281
- Heterosexual Contact	3%	17%	81%	909	647	62%	1,038
- Pediatric	7%	17%	77%	6,370	30	77%	39
- Transfusion / Hemophiliac	10%	20%	70%	5,917	10	53%	19
- No Identified Risk	2%	22%	76%	959	95	62%	153

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

\* Section excludes 12 cases for which we do not have information about race or ethnicity.

<sup>^</sup>Case counts and percents are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: PEOPLE LIVING WITH HIV (continued)

**Table 10. Viral Load Test Results (Last 12 Months) by County and Combined Local Health District, as of December 31, 2011<sup>^</sup>**

Viral Load, copies/mL:	Viral Load Results in 2011 (among cases with VL information)			Mean Viral Load copies/mL	Cases with a Viral Load Result in 2011		Total Cases No.
	High VL ≥ 100,000	201 - 99,999	Suppressed VL ≤ 200		No.	% of total	
	%	%	%				
Adams Co.	0%	25%	75%	7	4	67%	6
Asotin Co.	9%	27%	64%	311	11	61%	18
Benton Co.	9%	13%	78%	208	67	63%	107
Benton-Franklin HD	6%	16%	78%	126	113	65%	175
Chelan Co.	0%	25%	75%	12	36	77%	47
Chelan-Douglas HD	0%	22%	78%	1	41	76%	54
Clallam Co.	0%	16%	84%	7	19	46%	41
Clark Co.	9%	18%	73%	1,854	122	26%	465
Columbia Co.	0%	0%	100%	30	3	75%	4
Cowlitz Co.	17%	17%	67%	1,437	18	20%	89
Douglas Co.	0%	0%	100%	2	5	71%	7
Ferry Co.	0%	0%	100%	0	1	100%	1
Franklin Co.	2%	20%	78%	178	46	68%	68
Garfield Co.	---	---	---	---	0	0%	1
Grant Co.	0%	17%	83%	8	18	50%	36
Grays Harbor Co.	6%	19%	75%	399	36	65%	55
Island Co.	0%	14%	86%	9	22	45%	49
Jefferson Co.	0%	7%	93%	3	14	64%	22
King Co.	3%	14%	83%	10	4,586	67%	6,864
Kitsap Co.	5%	11%	84%	9	114	60%	191
Kittitas Co.	0%	18%	82%	10	11	79%	14
Klickitat Co.	0%	33%	67%	15,700	3	38%	8
Lewis Co.	9%	18%	73%	79	22	67%	33
Lincoln Co.	---	---	---	---	0	0%	2
Mason Co.	4%	19%	77%	31	52	55%	94
NE Tri-County HD	0%	10%	90%	4	10	71%	14
Okanogan Co.	0%	0%	100%	1	10	42%	24
Pacific Co.	0%	10%	90%	3	10	48%	21
Pend Oreille Co.	0%	0%	100%	0	2	67%	3
Pierce Co.	4%	16%	79%	19	402	40%	1,004
San Juan Co.	0%	0%	100%	5	6	35%	17
Skagit Co.	8%	23%	69%	48	26	45%	58
Skamania Co.	0%	100%	0%	861	1	100%	1
Snohomish Co.	2%	14%	84%	12	449	64%	697
Spokane Co.	2%	12%	86%	94	283	64%	440
Stevens Co.	0%	14%	86%	31	7	70%	10
Thurston Co.	4%	16%	80%	58	122	65%	188
Wahkiakum Co.	50%	0%	50%	125,050	2	67%	3
Walla Walla Co.	0%	11%	89%	3,385	18	58%	31
Whatcom Co.	3%	24%	73%	23	33	23%	142
Whitman Co.	0%	8%	92%	17	12	63%	19
Yakima Co.	2%	9%	89%	127	124	70%	178
<b>Statewide Total</b>	<b>4%</b>	<b>14%</b>	<b>82%</b>	<b>771</b>	<b>6,717</b>	<b>61%</b>	<b>11,058</b>

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

<sup>^</sup>Case counts and percents are more accurate than prior versions. See Technical Note on page 2

## STATISTICS: AIDS CASES AND HIV DEATHS

**Table 11. AIDS Cases and Deaths from HIV or AIDS<sup>^</sup>**

	Recent AIDS Cases			Cumulative AIDS Cases		Cumulative HIV/AIDS Deaths	
	2007-2011			1982-2011		1982-2011	
	No.	%	Rate	No.	%	No.	%
<b>Total</b>	1,675	100%	5.0	13,400	100%	5,329	100%
<b>Gender</b>							
Male	1,429	85%	8.6	12,076	90%	5,000	94%
Female	246	15%	1.5	1,324	10%	329	6%
<b>Age at AIDS Diagnosis</b>						<b>Age at Death</b>	
< 20	15	1%	0.2	98	1%	17	0%
20 - 29	236	14%	4.9	2,178	16%	455	9%
30 - 39	510	30%	11.5	5,780	43%	2,090	39%
40 - 49	550	33%	11.4	3,695	28%	1,721	32%
50 - 59	269	16%	5.8	1,253	9%	732	14%
60+	95	6%	1.6	396	3%	314	6%
<b>Race and Hispanic Origin</b>							
White	948	57%	3.8	9,819	73%	4,353	82%
Black	301	18%	26.7	1,617	12%	445	8%
Hispanic (all races)	246	15%	7.7	1,194	9%	276	5%
Asian	81	5%	3.7	270	2%	64	1%
Native Hawaiian / Pacific Islander	12	1%	7.9	47	0%	14	0%
American Indian / Alaska Native	31	2%	6.3	216	2%	73	1%
Multiple or Unknown Race	56	3%	6.0	237	2%	104	2%
Hispanic only:							
- White	90	5%	3.2	344	3%	119	2%
- Black	6	0%	---	35	0%	11	0%
- Multiple / Other Race	9	1%	---	37	0%	11	0%
- Unknown Race	141	8%	---	778	6%	135	3%
<b>Exposure Category by Gender</b>							
Male only:							
- Male / Male Sex (MSM)	882	53%	---	8,575	64%	3,697	69%
- Injecting Drug Use (IDU)	93	6%	---	856	6%	356	7%
- MSM and IDU	147	9%	---	1,347	10%	548	10%
- Heterosexual Contact	82	5%	---	401	3%	86	2%
- Pediatric	4	0%	---	16	0%	5	0%
- Transfusion / Hemophiliac	3	0%	---	156	1%	91	2%
- No Identified Risk	218	13%	---	725	5%	217	4%
Female only:							
- Injecting Drug Use	51	3%	---	360	3%	115	2%
- Heterosexual Contact	162	10%	---	799	6%	160	3%
- Pediatric	4	0%	---	21	0%	4	0%
- Transfusion / Hemophiliac	1	0%	---	48	0%	24	0%
- No Identified Risk	28	2%	---	96	1%	26	0%

All HIV/AIDS surveillance data reported to the Washington State Department of Health as of December 31, 2012.

<sup>^</sup>Case counts, percents and rates are more accurate than prior versions. See Technical Note on page 2