



## HIV/AIDS Reporting:

In December 2008, the CDC MMWR (December 5, 2008 / Vol. 57 / No. RR-10) released **Revised Surveillance Case Definitions for HIV Infection Among Adults, Adolescents, and Children Aged <18 Months and for HIV Infection and AIDS Among Children Aged 18 Months to <13 Years — United States, 2008**. The key changes to the case definitions include:

- HIV is now categorized into four stages as shown in Table 1 below. AIDS is now included in the case definitions for HIV infection and is classified as HIV infection, stage 3 for adults and adolescents (aged  $\geq 13$  years).
- HIV infection for adults, adolescents, and children aged 18 months to <13 years is now required to have laboratory-confirmed evidence.
- The HIV infection case definition for children aged <13 years and the AIDS case definition for children aged 18 months to <13 years have been revised.

The details of case definitions can be found at <http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5710a1.htm>

Table 1. The Surveillance Case Definition for HIV infection stages among adults and adolescents (aged  $\geq 13$  years)

	Lab confirmation of HIV infection	CD4+ T-lymphocyte count or %	Clinical evidence
Stage 1	Yes	$\geq 500$ cells/ $\mu$ L or $\geq 29\%$	None required (but no AIDS-defining condition)
Stage 2	Yes	200-499 cells/ $\mu$ L or 14-28%	None required (but no AIDS-defining condition)
Stage 3 (AIDS)	Yes	<200 cells/ $\mu$ L or <14%	or AIDS-defining condition (with lab confirmation of HIV+)
Stage unknown	Yes	no information	and no information on presence of AIDS-defining conditions

Although AIDS is now combined into the HIV case definition, there is no change for providers or laboratories in reporting using the current confidential HIV/AIDS case report form. All stages of HIV infection are reportable by name in Hawai'i. There are three ranges of CD4+ T-lymphocyte counts and percentages in the new HIV case definitions, categorized in stages 1 through 3. A previous stage 3 HIV case (AIDS) cannot be reclassified into a less severe stage regardless of CD4 values. A case with no CD4+ T-lymphocyte count or percentage and no information on AIDS-defining conditions is classified as stage unknown. It is recommended that every effort be made to report CD4+ T-lymphocyte counts and/or percentages and any AIDS-defining conditions at the time of report submission.

As of December 31, 2008, using the new CDC HIV case definitions, a cumulative total of 3,701 HIV cases diagnosed in Hawai'i have been reported. These include 630 HIV

Table 2. HIV infection in Hawaii, Cases through December 31, 2008

	Total	Alive	Death
	N=3,701	N=1,897	N=1,804
Stages 1, 2 & Unknown (non-AIDS)	630	606 (96.2)	24 (3.8)
Stage 3 (AIDS)	3,071	1,291 (42.0)	1,780 (58.0)

stage 3 (AIDS). Of the total HIV cases 1,804 are known dead, 1,780 with AIDS and 24 non-AIDS (Table 2). Further information on HIV infection, stage 3 (AIDS cases) by year, county and race/ethnicity is detailed on pages 2-4.

Since March 13, 2008, Hawai'i has required name-based reporting for HIV infection (non-AIDS) cases, in addition to AIDS reporting. As of December 31, 2008, a cumulative total of 701 HIV (non-AIDS) cases were received. Of these cases, 630 were diagnosed in Hawai'i. Although these 630 cases were reported in 2008, many of them had been diagnosed in previous years. As the data on HIV (non-AIDS) reporting becomes more complete, detailed information and analysis will be published in future reports.

## HIV Infection, Stage 3 (AIDS) Cases Reported through December 31, 2008, Hawai'i

Year of Report	1983-2002	2003	2004	2005	2006	2007	2008	TOTAL
Cases by Year of Report <sup>a</sup>	2,502	99	122	103	80	78	87	3,071
Rate per 100,000 Population <sup>b</sup>	N/A	8.0	9.7	8.1	6.3	6.5	6.8	N/A

Demographics/Risk	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
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SEX	Male	2,321	(93)	83	(84)	110	(90)	91	(88)	69	(86)	68	(87)	72	(83)	2,814	(92)
	Female	181	(7)	16	(16)	12	(10)	12	(12)	11	(14)	10	(13)	15	(17)	257	(8)

AGE	<13	16	(1)	1	(1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	17	(1)
	13-19	8	(<1)	1	(1)	0	(0)	1	(1)	2	(3)	0	(0)	0	(0)	12	(<1)
	20-29	321	(13)	9	(9)	13	(11)	8	(8)	2	(3)	9	(12)	12	(14)	374	(12)
	30-39	1,075	(43)	38	(38)	45	(37)	28	(27)	25	(31)	23	(29)	21	(24)	1,255	(41)
	40-49	769	(31)	30	(30)	37	(30)	41	(40)	28	(35)	25	(32)	35	(40)	965	(31)
	>49	313	(13)	20	(20)	27	(22)	25	(24)	23	(29)	21	(27)	19	(22)	448	(15)

RACE	Non-Hispanic																
	Caucasian	1,532	(61)	41	(41)	60	(49)	63	(61)	39	(49)	37	(47)	45	(52)	1,817	(59)
	Asian	362	(14)	20	(20)	23	(19)	13	(13)	18	(23)	10	(13)	19	(22)	465	(15)
	Hawaiian/Pacific Islander	327	(13)	15	(15)	11	(9)	10	(10)	8	(10)	7	(9)	6	(7)	384	(13)
	Asian/Pacific Islander*	697	(28)	35	(35)	34	(28)	23	(22)	26	(33)	17	(22)	25	(29)	857	(28)
	African-American	108	(4)	8	(8)	8	(7)	3	(3)	3	(4)	4	(5)	1	(1)	135	(4)
	American Indian/Alaskan	8	(<1)	0	(0)	2	(2)	0	(0)	0	(0)	1	(1)	0	0	11	(<1)
	Multiple Race & Unknown	19	(1)	9	(9)	4	(3)	6	(6)	4	(5)	6	(8)	5	(6)	53	(2)
Hispanic	138	(6)	6	(6)	14	(11)	8	(8)	8	(10)	13	(17)	11	(13)	198	(6)	

\*Beginning in 2003, the new race/ethnicity of 1997 OMB standard (CDC's guidelines) has been implemented in Hawaii, which results in the race/ethnicity information to be compiled in this report under two systems. There were 8 legacy Asian/Pacific Islander cases reported in the 1983- 2001 period. These cases cannot be categorized into either Asian or Hawaiian/Pacific Islander and have been included in the total of Asian/Pacific Islander.

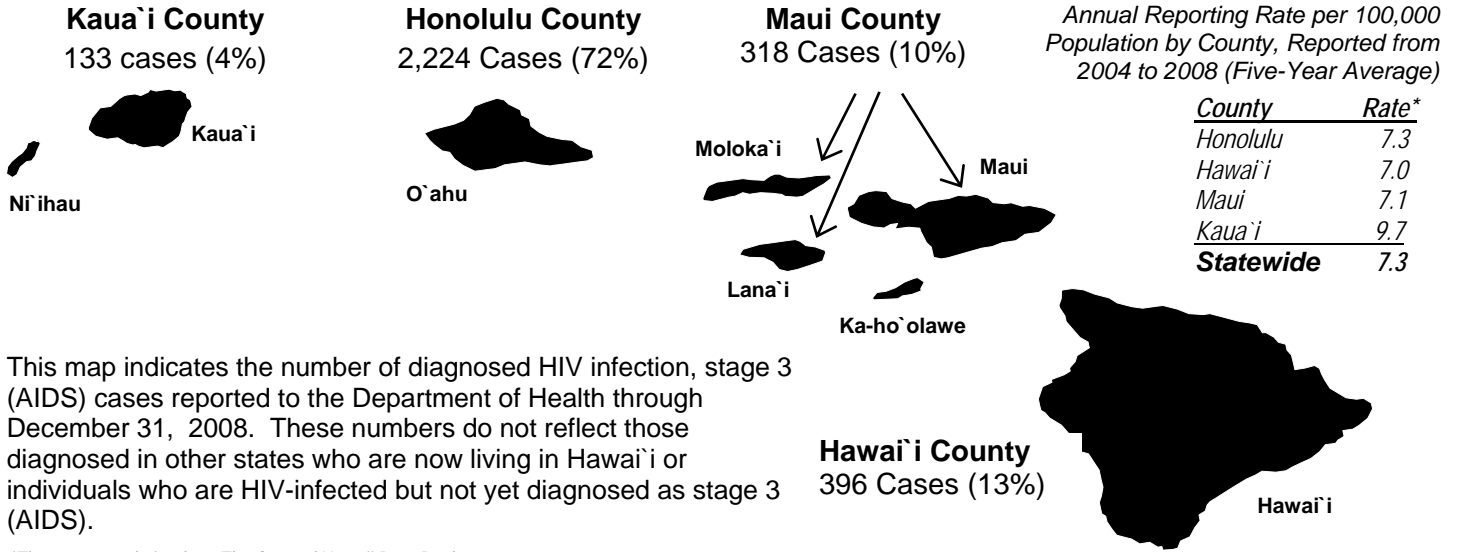
RISK	Male to Male Sex	1,874	(75)	60	(61)	75	(61)	66	(64)	51	(64)	47	(60)	52	(60)	2,225	(72)
	Injection Drug Use	184	(7)	4	(4)	11	(9)	6	(6)	11	(14)	10	(13)	10	(11)	236	(8)
	Male/Male Sex & IDU	179	(7)	5	(5)	12	(10)	9	(9)	2	(3)	4	(5)	7	(8)	218	(7)
	Heterosexual	136	(5)	13	(13)	9	(7)	3	(3)	3	(4)	4	(5)	3	(3)	171	(6)
	Transfusion	26	(1)	3	(3)	1	(1)	0	(0)	0	(0)	0	(0)	0	(0)	30	(1)
	Perinatal	13	(1)	1	(1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	14	(0)
	Hemophilic	20	(1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	20	(1)
	Undetermined	70	(3)	13	(13)	14	(11)	19	(18)	13	(16)	13	(17)	15	(17)	157	(5)

<sup>a</sup>. Due to the de-duplication among the nation, the number of Hawaii reported cases may change each year.

<sup>b</sup>. Each year's estimated population from <http://www.hawaii.gov/dbedt/info/economic/databook/db2007/>. Table 1.06 Resident Population, by County.

# County Report

## Cumulative HIV Infection, Stage 3 (AIDS) Cases (1983 – December 31, 2008)



Cumulative Hawai'i HIV Infection, Stage 3 (AIDS) cases reported 1983 to December 31, 2008: 3,071 Known Deaths: 1,780 (58%)

### HIV Infection, Stage 3 (AIDS) Cases by County: Five-year (2004 - 2008) and Cumulative Total (1983 – December 31, 2008)

County	Honolulu Co.		Hawai'i Co.		Maui Co.		Kaua'i Co		Statewide		
	5-Year	Cum. Total	5-Year	Cum. Total	5-Year	Cum. Total	5-Year	Cum. Total	5-Year	Cum. Total	
	No. (%)	N (%)	No. (%)	No. (%)	No. (%)	No. (%)	N (%)	N (%)	No. (%)	No. (%)	
SEX	Male	287 (87)	2,045 (92)	51 (86)	351 (89)	45 (90)	297 (93)	27 (90)	121 (91)	410 (87)	2,814 (92)
	Female	44 (13)	179 (8)	8 (14)	45 (11)	5 (10)	21 (7)	3 (10)	12 (9)	60 (13)	257 (8)

RISK	Male to Male Sex	200 (61)	1,622 (73)	32 (54)	261 (66)	38 (76)	245 (77)	21 (70)	98 (74)	291 (62)	2,226 (72)
	Injection Drug Use	41 (12)	169 (8)	4 (7)	42 (11)	1 (2)	16 (5)	2 (7)	10 (8)	48 (10)	237 (8)
	Male/Male Sex & IDU	28 (8)	154 (7)	4 (7)	32 (8)	2 (4)	27 (8)	0 (0)	5 (4)	34 (7)	218 (7)
	Heterosexual Contact	19 (6)	124 (6)	1 (2)	27 (7)	1 (2)	14 (4)	1 (3)	10 (8)	22 (5)	175 (6)
	Transfusion	0 (0)	18 (1)	0 (0)	2 (1)	1 (2)	2 (1)	0 (0)	2 (2)	1 (0)	24 (1)
	Perinatal	0 (0)	12 (1)	0 (0)	2 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	14 (<1)
	Hemophiliac	0 (0)	15 (1)	0 (0)	3 (1)	0 (0)	2 (1)	0 (0)	0 (0)	0 (0)	20 (1)
	Undetermined	43 (13)	110 (5)	18 (31)	27 (7)	7 (14)	12 (4)	6 (20)	8 (6)	74 (16)	157 (5)
	Total Cases	331	2,224	59	396	50	318	30	133	470	3,071

01/2004– 12/2008 Cases (%)	331 (70)	59 (13)	50 (11)	30 (6)	470 (100)
Cumulative Cases (%)	2,224 (72)	396 (13)	318 (10)	133 (4)	3,071 (100)
2006 Estimated Population (%)	(71)	(13)	(11)	(5)	1,278,635 (100)

## HIV Infection, Stage 3 (AIDS) Cases by Race/Ethnicity Reported from 2004 to 2008 (Five - Year)

Race/Ethnicity	Caucasian	African American	Hispanic	Hawaiian/ Pt. Haw	Filipino	Chinese	Japanese	Other A/Pis	Multiple <sup>a</sup> Race	Total <sup>b</sup>
	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)

SEX	Male	218 (89)	16 (84)	50 (93)	24 (71)	20 (87)	13 (87)	29 (91)	17 (81)	21 (84)	410 (87)
	Female	26 (11)	3 (16)	4 (7)	10 (29)	3 (13)	2 (13)	3 (9)	4 (19)	4 (16)	60 (13)

RISK	Male to Male Sex	169 (70)	10 (53)	33 (61)	12 (35)	9 (39)	9 (60)	19 (59)	13 (62)	14 (56)	291 (62)
	Injection Drug Use	24 (10)	3 (16)	4 (7)	6 (18)	2 (9)	3 (20)	1 (3)	2 (10)	3 (12)	48 (10)
	Male/Male Sex & IDU	15 (6)	3 (16)	4 (7)	4 (12)	4 (17)	0 (0)	4 (13)	0 (0)	0 (0)	34 (7)
	Heterosexual Contact	7 (3)	2 (11)	0 (0)	3 (9)	3 (13)	0 (0)	2 (6)	2 (10)	2 (8)	22 (5)
	Transfusion	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (<1)
	Perinatal	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	Hemophiliac	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	Undetermined	28 (12)	1 (5)	13 (24)	9 (26)	5 (22)	3 (20)	6 (19)	4 (19)	6 (24)	74 (16)
<b>5-Year Cases</b>		<b>244</b>	<b>19</b>	<b>54</b>	<b>34</b>	<b>23</b>	<b>15</b>	<b>32</b>	<b>21</b>	<b>25</b>	<b>470</b>

Cumulative Cases (%)	1,817 (59)	135 (4)	198 (6)	328 (11)	177 (6)	80 (3)	163 (5)	109 (4)	53 (2)	3,071 (100)
5 Year Cases (%)	244 (52)	19 (4)	54 (11)	34 (7)	23 (5)	15 (3)	32 (7)	21 (4)	25 (5)	470 (100)
5-Year Average Annual Rate per 100,000 <sup>c</sup>	16.6	17.3	12.3	8.5	2.7	5.3	3.2	6.0	1.9	7.8

<sup>a</sup> This data collection began in 2003.

<sup>b</sup> Totals include American Indians with 3 cases in previous 5-year period; 11 cases as of December, 31 2008.

<sup>c</sup> 2000 population, U.S. Census, from <http://www.hawaii.gov/dbedt/info/economic/databook/db2007/> Table 1.38 Ranking of Races.

**Reporting Requirement:** HIV infection, stage 3 (AIDS) case reporting is required by Hawai'i Revised Statutes (HRS) §325-2. Reporting of HIV infection, stages 1, 2 and stage unknown and laboratory test results of CD4+ T-lymphocyte count or percentage are required by Hawaii Administrative Rules §11-156-3, Exhibit A and Exhibit B. Reporting by name is required. Information is collected for public health purposes and is handled in strictest confidence in accordance with HRS §325-101. Names and other identifiers are not released. Those required to report include physicians, nurses, infection control practitioners, medical directors, and hospitals.

If you need more information, please visit the Hawaii HIV/AIDS Surveillance Program website:  
<http://www.hawaii.gov/health/healthy-lifestyles/std-aids/aboutus/prq-aids/index.html>

If the information you are looking for is not on the website or you have questions regarding forms, reporting requirements, or this report, please contact the Hawai'i HIV/AIDS Surveillance Program by mail: 3627 Kilauea Avenue, Suite 306, Honolulu, HI 96816, by phone: (808) 733-9010, by fax: (808) 733-9015 or by e-mail: [sandy.qiu@doh.hawaii.gov](mailto:sandy.qiu@doh.hawaii.gov).