



HIV/AIDS Surveillance Update – September 2009

PLEASE READ: IMPORTANT INFORMATION ABOUT HIV/AIDS SURVEILLANCE

In August 2009 California migrated its HIV/AIDS reporting data from an earlier generation software application – the HIV/AIDS Reporting System (HARS) – to a modernized application known as the Enhanced HIV Reporting System (eHARS). This migration was completed to satisfy federal HIV/AIDS reporting requirements. The migration changed the way surveillance information is stored electronically, but it did not significantly influence surveillance practice in California.

This is the first HIV/AIDS surveillance report published by the California Department of Public Health, Office of AIDS (OA), since the data migration process began in April 2009. No reports were published on HIV/AIDS between April 2009 and September 2009 the migration process. Part of this process entailed OA and local health jurisdictions collaborating to clean and/or de-duplicate data that resulted in minor case count shifts in some jurisdictions.

Lastly, OA will now publish these reports quarterly rather than monthly. The next two reports for data through 12/31/2009 and 03/31/2010 are planned for release on or about 05/17/10 and 06/01/10, respectively.

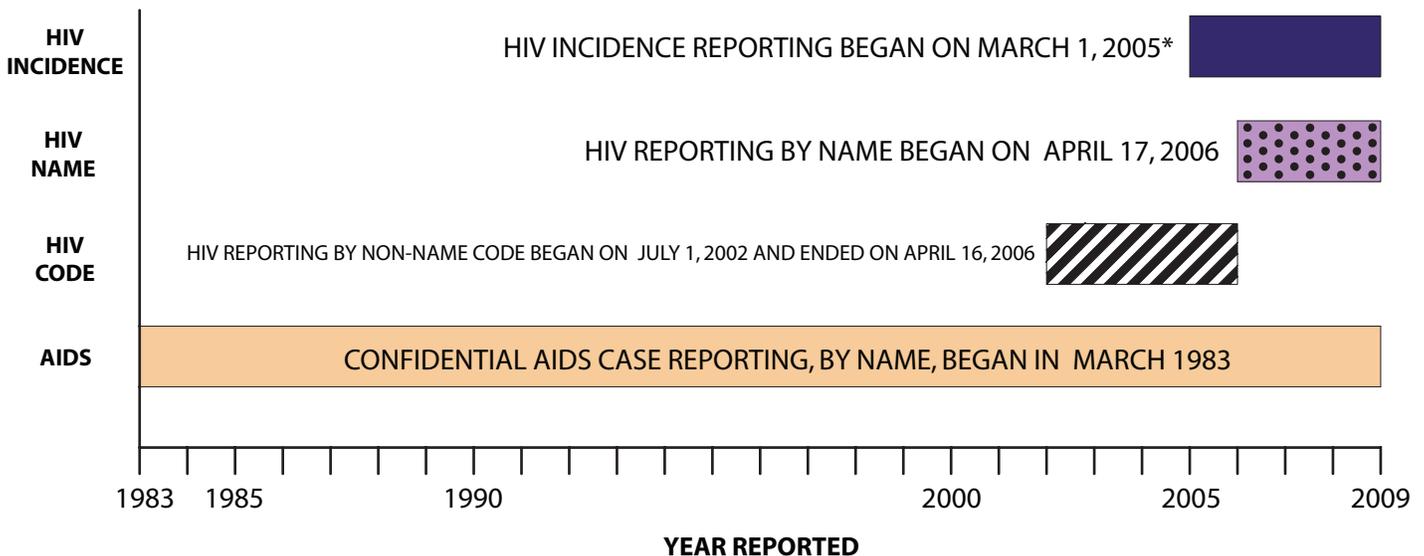
For more information please contact HIV/AIDS Surveillance Section at (916)449-5954

HIV/AIDS SURVEILLANCE IN CALIFORNIA

Over the years, surveillance of HIV/AIDS has evolved to adapt to changes in the HIV/AIDS epidemic and advances in diagnosis and treatment. In the beginning of the epidemic, surveillance systems across the country only reported AIDS cases. California surveillance later expanded due to increased understanding of the etiology and transmission of AIDS to include HIV reporting (see Figure 1 and 2).

- Confidential AIDS case reporting, by name, began in March 1983
- HIV Reporting was first implemented on July 1, 2002, by non-name code
- HIV reporting by name began on April 17, 2006
- HIV Incidence Surveillance reporting began on March 1, 2005

FIGURE 1. TIMELINE OF CALIFORNIA HIV/AIDS SURVEILLANCE SYSTEMS



* Date reflects approval of the California area protocol and the beginning of data collection.

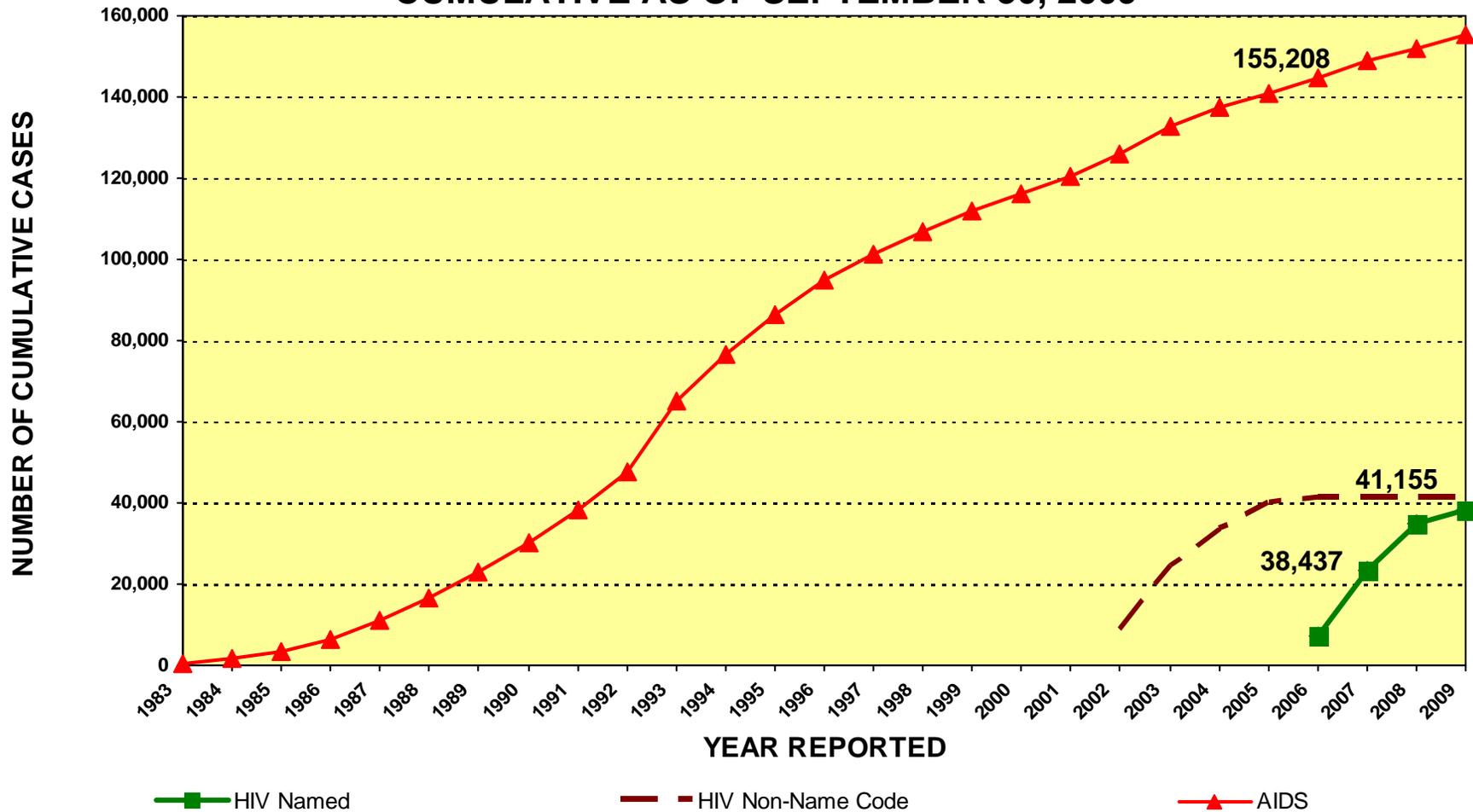
In California and the rest of the United States, HIV infections and AIDS diagnoses are reported through a combination of passive and active surveillance. Passive surveillance is conducted through state required reporting of HIV and AIDS cases by health care providers and reporting of HIV-positive test results from laboratories to Local Health Departments (LHDs). Active surveillance is accomplished through routine visits by LHD staff to hospitals, physician offices, laboratories, counseling and testing (C&T) clinics, and outpatient clinics to ensure completeness, timeliness, and accuracy of reported data. In California and other states, HIV/AIDS surveillance has historically relied heavily upon local health department staff who perform:

- active case surveillance
- on-site chart reviews
- case report completion

To improve timeliness and completeness of reporting and ensure prompt identification and response to emerging problems in the field, California Department of Public Health, Center for Infectious Diseases, Office of AIDS (OA) supports a decentralized reporting system where HIV and AIDS case reports are identified through passive and active surveillance efforts coordinated by California's 61 LHDs. HIV/AIDS surveillance case data, reported to local jurisdictions by health care providers and laboratories, is then sent to OA's HIV/AIDS Surveillance Section. Surveillance Section then submits electronic HIV/AIDS case reports, without personal identifiers, to CDC.

Figure 2.

CALIFORNIA HIV/AIDS SURVEILLANCE CASE ACCUMULATION CUMULATIVE AS OF SEPTEMBER 30, 2009



AIDS reporting began in March 1983.

HIV case totals through March 2006 represent HIV cases reported by non-name code. Beginning April 2006, HIV case total is based on HIV cases reported by name. Due to reporting system differences, HIV cases reported by non-name code and name cannot be combined for unduplicated case counts.

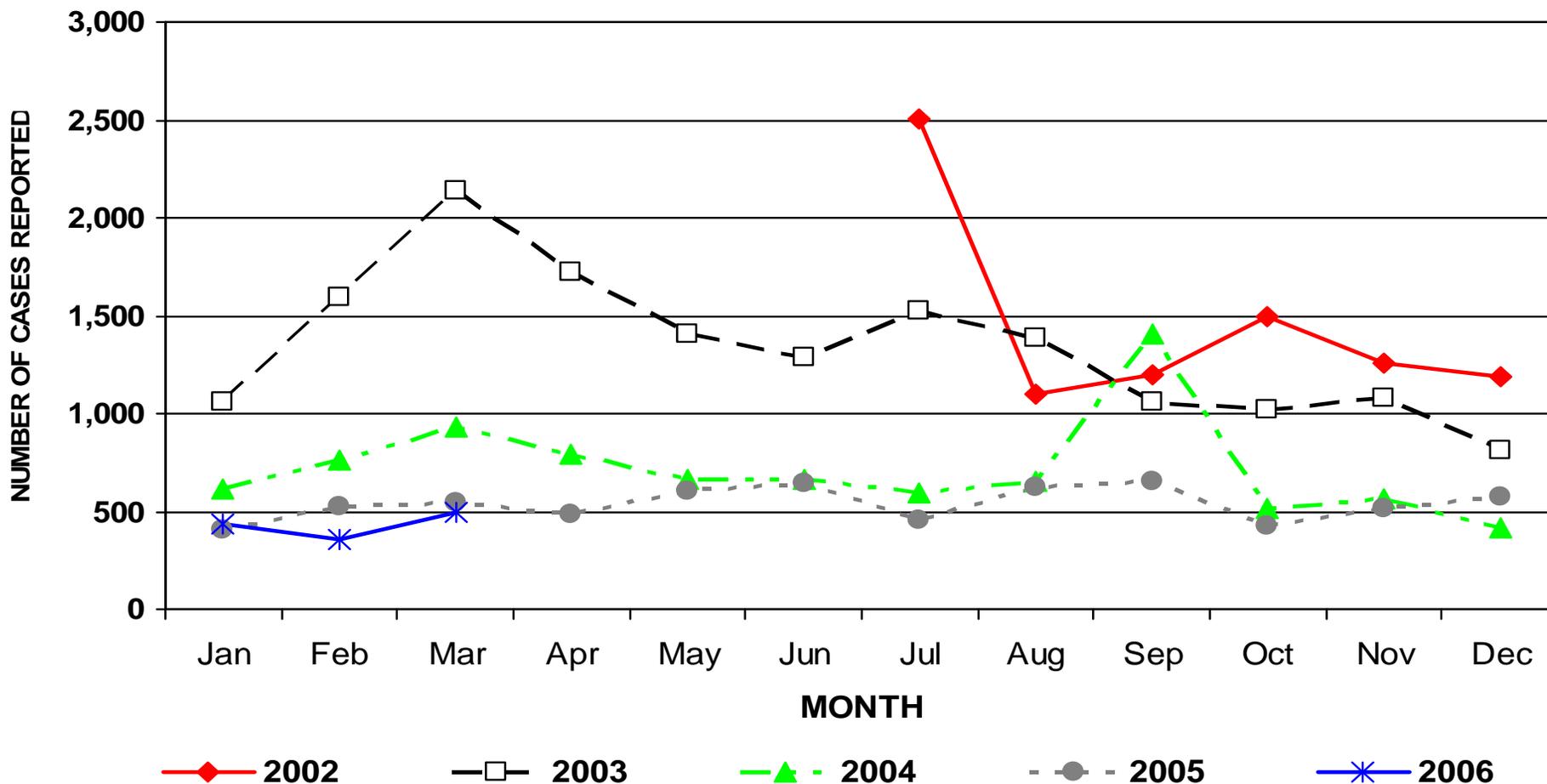
Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2009.

For more information, call the HIV/AIDS Surveillance Section at (916) 449-5954.



FIGURE 3.

CALIFORNIA HIV NON-NAME-CODE-BASED CASES BY MONTH AND YEAR REPORTED JULY 1, 2002 THROUGH MARCH 31, 2006



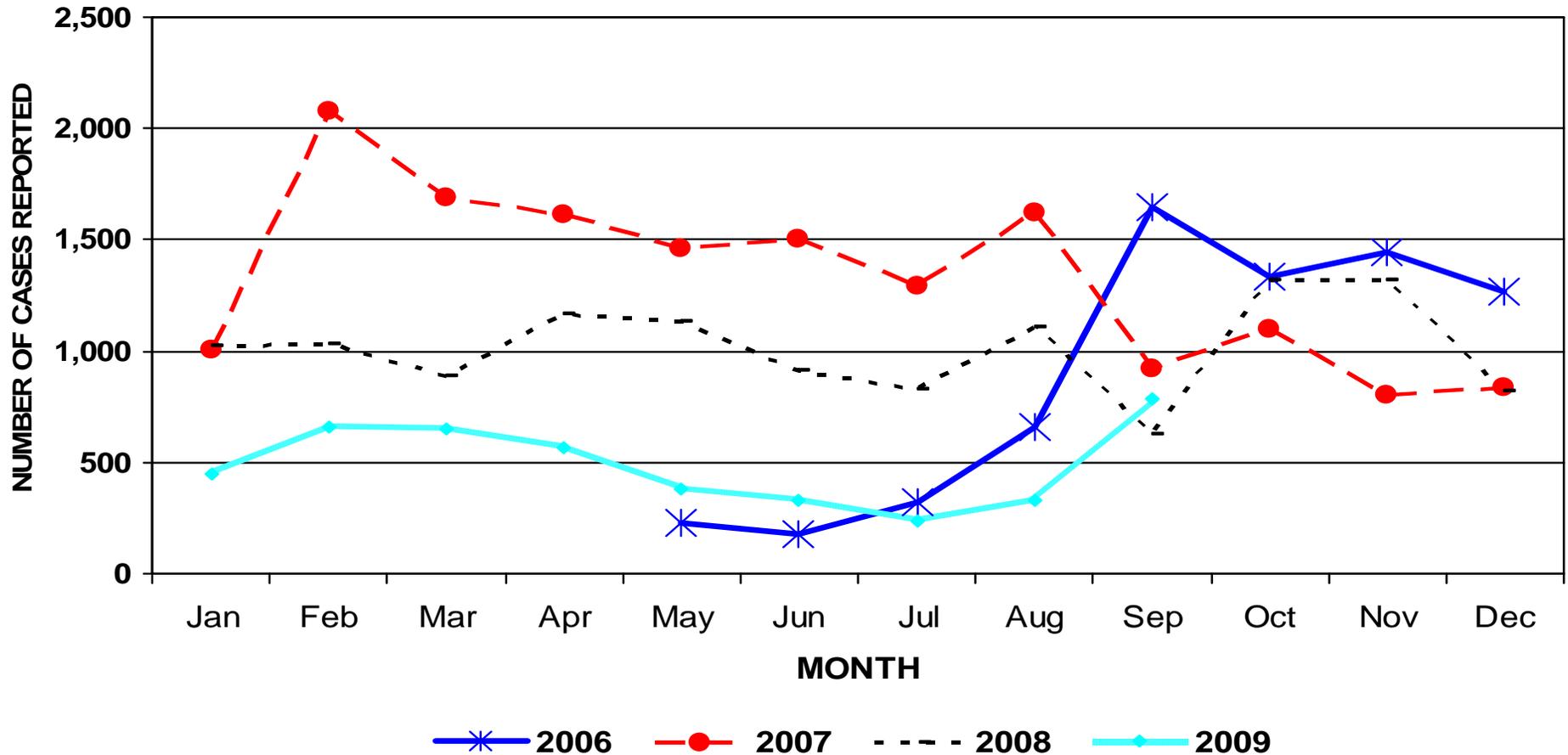
HIV case totals through March 2006 represent HIV cases reported by non-name code. Beginning April 2006, HIV case total are based on HIV cases reported by name. Due to reporting system differences, HIV cases reported by non-name code and name cannot be combined for unduplicated case counts.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of March 31, 2006. For more information, call the HIV/AIDS Surveillance Section at (916) 449-5954.



FIGURE 4.

CALIFORNIA HIV NAME-BASED CASES BY MONTH AND YEAR REPORTED APRIL 17, 2006 THROUGH SEPTEMBER 30, 2009



HIV named-based reporting began in April 2006.

HIV case totals which were reported from July 2002 through March 2006 represent HIV cases reported by non-name code. Due to reporting system differences, HIV cases reported by non-name code and name cannot be combined for unduplicated case counts.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2009.

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QUARTERLY REPORT OF HIV/AIDS CASES BY COUNTY IN CALIFORNIA

CUMULATIVE AS OF SEPTEMBER 30, 2009

COUNTY	HIV				AIDS				COUNTY	HIV				AIDS			
	Total Cases	Living Cases	Deceased		Total Cases	Living Cases	Deceased			Total Cases	Living Cases	Deceased		Total Cases	Living Cases	Deceased	
			Number	%			Number	%				Number	%			Number	%
Alameda	1,191	1,181	10	1	7,821	3,567	4,254	54	Orange	2,717	2,608	109	4	7,531	3,894	3,637	48
<i>Berkeley</i>	75	75	0	0	645	245	400	62	Placer	37	36	1	3	185	92	93	50
Alpine	0	0	0	0	0	0	0	0	Plumas	1	1	0	0	12	6	6	50
Amador	10	10	0	0	50	24	26	52	Riverside	1,314	1,296	18	1	5,718	3,282	2,436	43
Butte	76	70	6	8	274	134	140	51	Sacramento	1,181	1,164	17	1	3,771	1,742	2,029	54
Calaveras	5	5	0	0	20	9	11	55	San Benito	5	4	1	20	46	25	21	46
Colusa	1	1	0	0	13	1	12	92	San Bernardino	1,573	1,472	101	6	3,902	1,851	2,051	53
Contra Costa	577	556	21	4	2,889	1,162	1,727	60	San Diego	4,208	4,094	114	3	14,065	6,910	7,155	51
Del Norte	9	9	0	0	36	23	13	36	San Francisco	5,977	5,770	207	3	28,316	9,340	18,976	67
El Dorado	53	52	1	2	186	70	116	62	San Joaquin	446	444	2	0	1,263	665	598	47
Fresno	201	199	2	1	1,692	815	877	52	San Luis Obispo	143	143	0	0	604	322	282	47
Glenn	7	6	1	14	16	8	8	50	San Mateo	302	302	0	0	2,247	936	1,311	58
Humboldt	78	76	2	3	245	105	140	57	Santa Barbara	124	124	0	0	861	359	502	58
Imperial	54	53	1	2	223	135	88	39	Santa Clara	782	775	7	1	4,165	2,046	2,119	51
Inyo	2	2	0	0	16	9	7	44	Santa Cruz	141	139	2	1	626	278	348	56
Kern	546	537	9	2	1,873	1,218	655	35	Shasta	39	39	0	0	188	83	105	56
Kings	56	56	0	0	229	140	89	39	Sierra	1	1	0	0	4	0	4	100
Lake	16	15	1	6	153	65	88	58	Siskiyou	8	7	1	13	45	19	26	58
Lassen	9	8	1	11	59	35	24	41	Solano	352	347	5	1	1,613	851	762	47
Los Angeles	14,791	14,339	452	3	55,918	24,505	31,413	56	Sonoma	291	279	12	4	2,051	892	1,159	57
<i>Long Beach</i>	1,364	1,333	31	2	5,932	3,089	2,843	48	Stanislaus	134	131	3	2	757	387	370	49
<i>Pasadena</i>	130	127	3	2	782	292	490	63	Sutter	17	17	0	0	76	27	49	64
Madera	59	59	0	0	162	95	67	41	Tehama	12	10	2	17	35	20	15	43
Marin	235	221	14	6	1,656	658	998	60	Trinity	2	2	0	0	12	4	8	67
Mariposa	1	1	0	0	14	6	8	57	Tulare	45	42	3	7	343	149	194	57
Mendocino	25	22	3	12	210	82	128	61	Tuolumne	13	13	0	0	67	28	39	58
Merced	39	39	0	0	205	90	115	56	Ventura	265	263	2	1	1,097	497	600	55
Modoc	0	0	0	0	2	0	2	100	Yolo	42	40	2	5	226	102	124	55
Mono	0	0	0	0	6	3	3	50	Yuba	4	4	0	0	65	27	38	58
Monterey	131	131	0	0	964	444	520	54	Unknown	4	4	0	0	9	7	2	22
Napa	77	75	2	3	245	98	147	60									
Nevada	8	8	0	0	131	57	74	56									
									TOTAL	38,437	37,302	1,135	3	155,208	68,399	86,809	56

AIDS reporting began in March 1983. HIV reporting began in April 2006.

Counts exclude cases diagnosed, but not yet reported as of September 30, 2009 and may understate the number of diagnoses and deaths in the most recent years.

Table represents cases for which the first report was in California.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2009.

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CALIFORNIA HIV/AIDS QUARTERLY SUMMARY REPORT

CASES REPORTED AS OF SEPTEMBER 30, 2009

SELECTED INDICATORS	HIV CASES				AIDS CASES				TOTAL HIV/AIDS CASES			
	LIVING		CUMULATIVE		LIVING		CUMULATIVE		LIVING		CUMULATIVE	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
GENDER												
Male	31,989	85.8	32,914	85.6	60,082	87.8	140,505	90.5	92,071	87.1	173,419	89.6
Female	4,942	13.2	5,144	13.4	7,721	11.3	13,763	8.9	12,663	12.0	18,907	9.8
Transgender	371	1.0	379	1.0	596	0.9	940	0.6	967	0.9	1,319	0.7
RACE/ETHNICITY												
White	17,801	47.7	18,383	47.8	31,723	46.4	84,727	54.6	49,524	46.9	103,110	53.2
Black	6,976	18.7	7,260	18.9	12,874	18.8	27,560	17.8	19,850	18.8	34,820	18.0
Hispanic	10,666	28.6	10,883	28.3	20,916	30.6	37,440	24.1	31,582	29.9	48,323	25.0
Asian/Pacific Islander	1,346	3.6	1,374	3.6	2,296	3.4	3,886	2.5	3,642	3.4	5,260	2.7
American Indian/Alaskan Native	178	0.5	185	0.5	306	0.4	641	0.4	484	0.5	826	0.4
Multi-race	185	0.5	201	0.5	224	0.3	853	0.5	409	0.4	1,054	0.5
Unknown/Other	150	0.4	151	0.4	60	0.1	101	0.1	210	0.2	252	0.1
EXPOSURE CATEGORY												
MSM/Bisexual Male	24,811	66.5	25,256	65.7	43,489	63.6	103,702	66.8	68,300	64.6	128,958	66.6
Injection Drug Use	2,569	6.9	2,805	7.3	6,709	9.8	15,698	10.1	9,278	8.8	18,503	9.6
MSM/Bisexual Male & IDU	2,373	6.4	2,472	6.4	6,000	8.8	14,672	9.5	8,373	7.9	17,144	8.9
Hemophiliac/Transfusion*	97	0.3	112	0.3	452	0.7	2,214	1.4	549	0.5	2,326	1.2
Heterosexual Contact	3,417	9.2	3,491	9.1	6,441	9.4	9,810	6.3	9,858	9.3	13,301	6.9
Other/Unknown*	3,749	10.1	4,008	10.4	5,007	7.3	8,518	5.5	8,756	8.3	12,526	6.5
Perinatal Exposure	286	0.8	293	0.8	301	0.4	594	0.4	587	0.6	887	0.5
AGE GROUP**												
Under 13 years of age	325	0.9	334	0.9	276	0.4	684	0.4	601	0.6	1,018	0.5
13 to 19 years of age	916	2.5	920	2.4	476	0.7	686	0.4	1,392	1.3	1,606	0.8
20 to 29 years of age	10,629	28.5	10,767	28.0	11,033	16.1	23,527	15.2	21,662	20.5	34,294	17.7
30 to 39 years of age	13,773	36.9	14,104	36.7	29,179	42.7	66,008	42.5	42,952	40.6	80,112	41.4
40 to 49 years of age	8,459	22.7	8,814	22.9	19,755	28.9	44,081	28.4	28,214	26.7	52,895	27.3
Over 49 years of age	3,200	8.6	3,498	9.1	7,680	11.2	20,222	13.0	10,880	10.3	23,720	12.2
TOTAL	37,302	100.0	38,437	100.0	68,399	100.0	155,208	100.0	105,701	100.0	193,645	100.0

AIDS reporting began in March 1983. HIV reporting began in April 2006.

Percents may not add to 100% due to rounding.

MSM = Men who have sex with men. IDU = Injection drug use. * Includes cases where infection/diagnosis occurred when younger than 13 years of age.

** Age values are based upon age of diagnosis.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2009.

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CUMULATIVE HIV/AIDS CASES IN CALIFORNIA MODE OF EXPOSURE BY RACE/ETHNICITY REPORTED AS OF SEPTEMBER 30, 2009

MODE OF EXPOSURE	HIV CASES					AIDS CASES					TOTAL HIV/AIDS CASES				
	WHITE	BLACK	HISPANIC	OTHER	TOTAL	WHITE	BLACK	HISPANIC	OTHER	TOTAL	WHITE	BLACK	HISPANIC	OTHER	TOTAL
MSM/Bi	13,587	3,342	7,051	1,276	25,256	64,180	12,667	23,318	3,537	103,702	77,767	16,009	30,369	4,813	128,958
IDU	1,238	886	585	96	2,805	5,706	6,125	3,506	361	15,698	6,944	7,011	4,091	457	18,503
MSM/Bi & IDU	1,470	421	485	96	2,472	8,841	2,751	2,627	453	14,672	10,311	3,172	3,112	549	17,144
Heterosexual Contact	961	1,198	1,158	174	3,491	2,705	3,193	3,409	503	9,810	3,666	4,391	4,567	677	13,301
Other	1,127	1,413	1,604	269	4,413	3,295	2,824	4,580	627	11,326	4,422	4,237	6,184	896	15,739
TOTAL	18,383	7,260	10,883	1,911	38,437	84,727	27,560	37,440	5,481	155,208	103,110	34,820	48,323	7,392	193,645

AIDS reporting began in March 1983. HIV reporting began in April 2006.

MSM/Bi = Men who have sex with men/Bisexual males. IDU = Injection drug use.

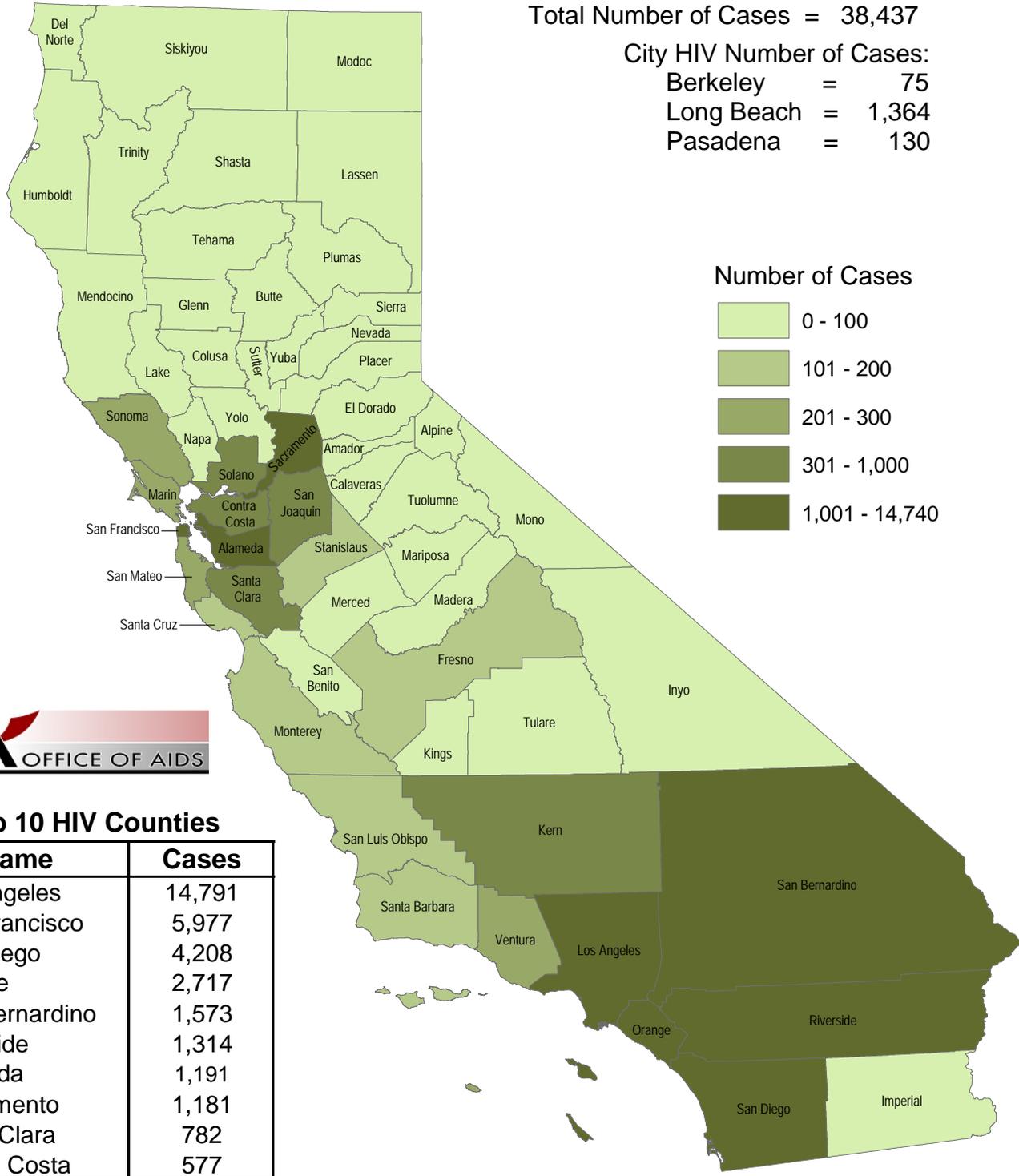
Other Race/Ethnicity includes Asian/Pacific Islander, American Indian/Alaskan Native, Multi-Race and those with unknown or missing race/ethnicity.

Other Mode of Exposure includes Hemophiliac, Transfusion of blood or blood products/Transplant, Confirmed other risk, No identified risk and Pediatric.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2009.

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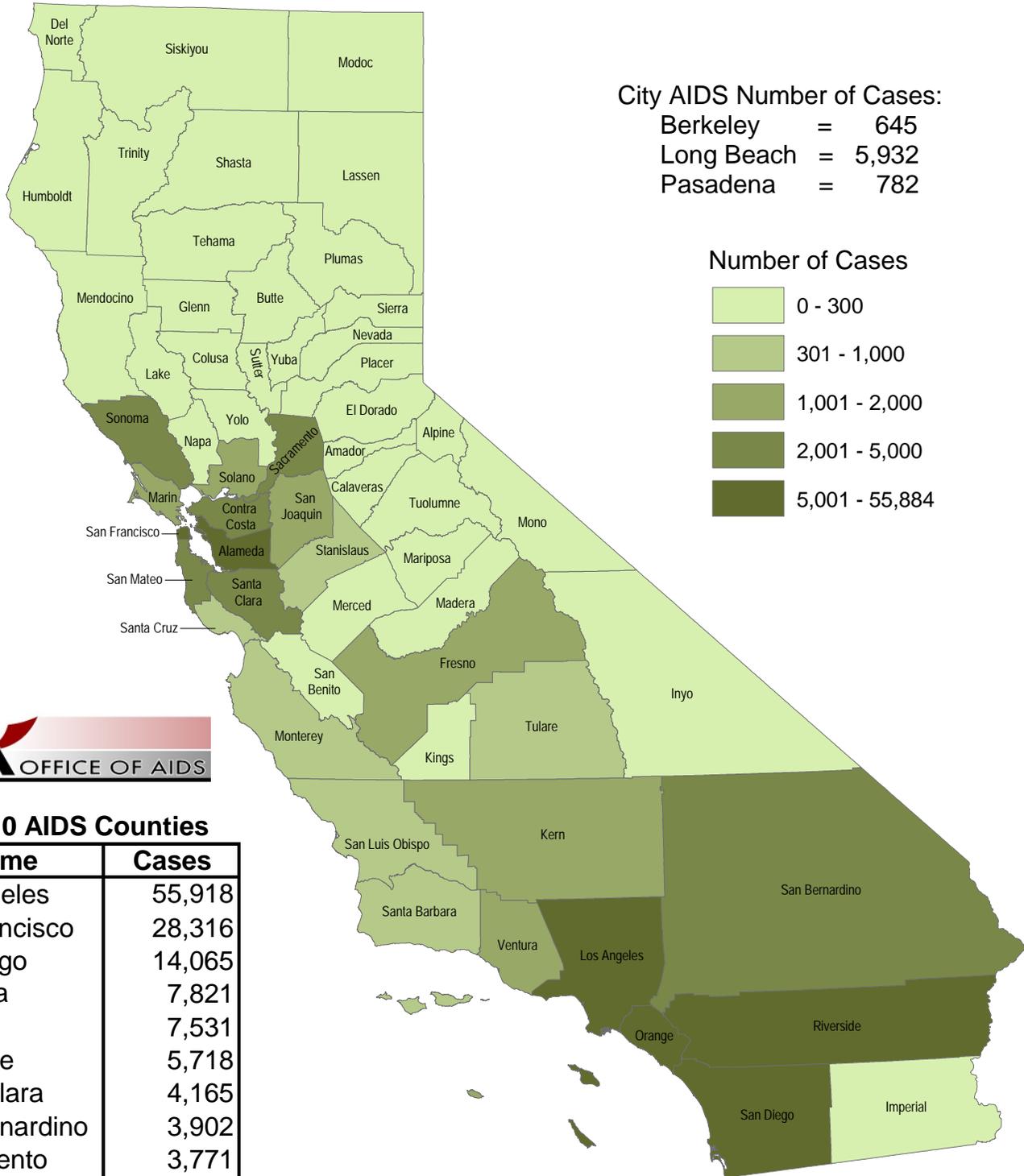
HIV CASES IN CALIFORNIA QUARTERLY REPORT CUMULATIVE AS OF SEPTEMBER 30, 2009



HIV reporting began in April 2006.
Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2009.
For more information, call the HIV/AIDS Surveillance Section at (916) 449-5954.

AIDS CASES IN CALIFORNIA QUARTERLY REPORT CUMULATIVE AS OF SEPTEMBER 30, 2009

Total Number of Cases = 155,208



AIDS reporting began in March 1983.

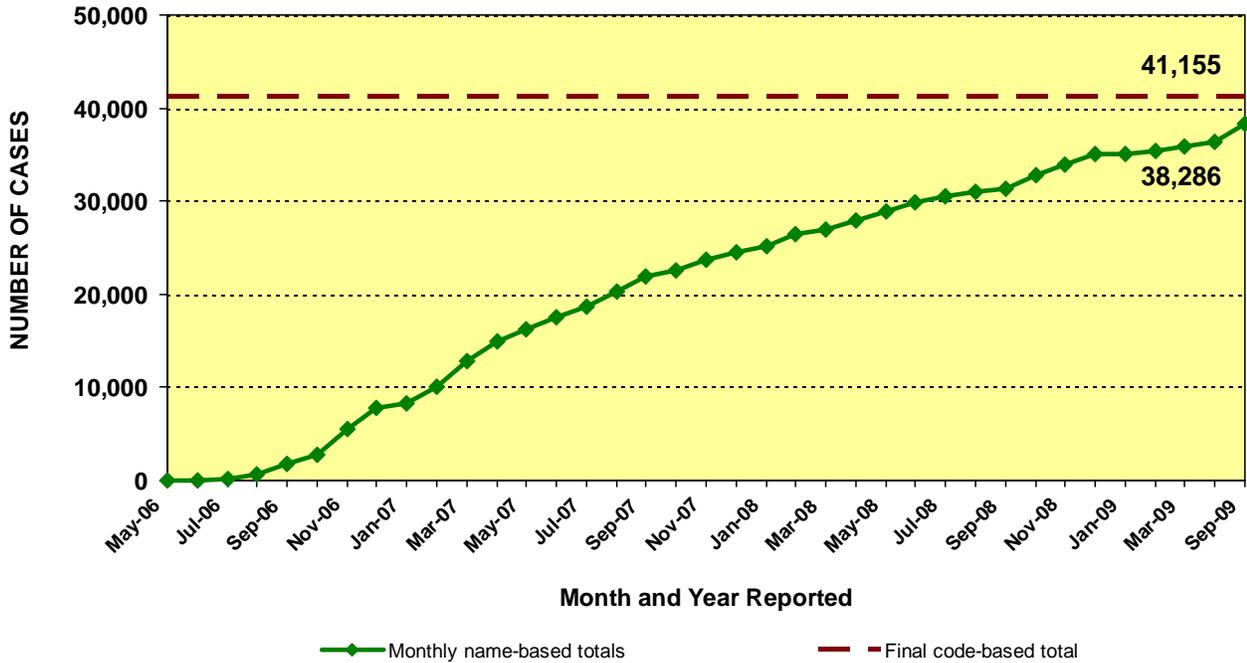
This map excludes HIV cases that seroconverted to AIDS- such cases only on AIDS map.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2009.

For more information, call the HIV/AIDS Surveillance Section at (916) 449-5954.

NAME-BASED HIV CASES COMPARED TO FINAL CODE-BASED TOTAL CUMULATIVE AS OF SEPTEMBER 30, 2009

Figure 5.



May-06 data includes cases reported for both April and May 2006.
 HIV case totals through March 2006 represent HIV cases reported by non-name code.
 Beginning April 2006, HIV case totals are based on HIV cases reported by name.



COUNTY	NAME-BASED	CODE-BASED
Alameda	1,191	1,713
Berkeley	75	123
Alpine	0	1
Amador	10	21
Butte	76	87
Calaveras	5	3
Colusa	1	3
Contra Costa	577	688
Del Norte	9	16
El Dorado	53	49
Fresno	201	692
Glenn	7	4
Humboldt	78	93
Imperial	54	61
Inyo	2	2
Kern	546	534
Kings	56	95
Lake	16	33
Lassen	9	8
Los Angeles	14,791	15,304
Long Beach	1,364	1,397
Pasadena	130	130
Madera	59	106
Marin	235	352
Mariposa	1	5
Mendocino	25	48
Merced	39	48
Modoc	0	0
Mono	0	0
Monterey	131	162
Napa	77	73
Nevada	8	11

COUNTY	NAME-BASED	CODE-BASED
Orange	2,717	2,155
Placer	37	51
Plumas	1	4
Riverside	1,314	1,691
Sacramento	1,181	814
San Benito	5	2
San Bernardino	1,573	1,271
San Diego	4,208	4,944
San Francisco	5,977	6,182
San Joaquin	446	411
San Luis Obispo	143	133
San Mateo	302	392
Santa Barbara	124	143
Santa Clara	782	1,017
Santa Cruz	141	152
Shasta	39	16
Sierra	1	0
Siskiyou	8	6
Solano	352	418
Sonoma	291	415
Stanislaus	134	214
Sutter	17	24
Tehama	12	4
Trinity	2	0
Tulare	45	79
Tuolumne	13	13
Ventura	265	313
Yolo	42	62
Yuba	4	14
Unknown	4	3
TOTAL	38,437	41,155

HIV case totals through March 2006 represent HIV cases reported by non-name code. Beginning April 2006, HIV case totals are based on HIV cases reported by name. Due to reporting system differences, HIV cases reported by non-name code and name cannot be combined for unduplicated case counts. Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of March 31, 2006 and as of September 30, 2009. For more information, call the HIV/AIDS Surveillance Section at (916) 449-5866.