



## **Notes on the HIV/AIDS Surveillance Report – Quarter 3, 2010**

**The Office of AIDS investigated some unexpected epidemiological trends comparing the current report to the report published for quarter 2, 2010. The trends and investigation are reported below.**

**Compared to the former report, the current report includes a reduction in cumulative HIV case counts (declines of  $\geq 1\%$ ) for Los Angeles and San Francisco Counties; a pattern not expected given historic epidemiological trends. A substantial increase in mortality reports within Los Angeles County was also noted. The Office of AIDS contacted the respective counties to understand the trends.**

**The respective counties confirmed that these reductions were due to administrative surveillance operations and not due to actual epidemiological trends in the population. These operations included:**

- Routine interstate duplicate review, a process by which California identifies HIV/AIDS cases that were first reported in other states and then removes these cases from California case counts. This was performed by both San Francisco and Los Angeles Counties.**
- Re-assignment of case status from non-AIDS HIV cases to AIDS cases using laboratory data that is only entered periodically (Los Angeles).**
- Addition of death certificate data to the surveillance system for the years 2005–2010 for Los Angeles cases, obtained by matching cases with a national death register.**

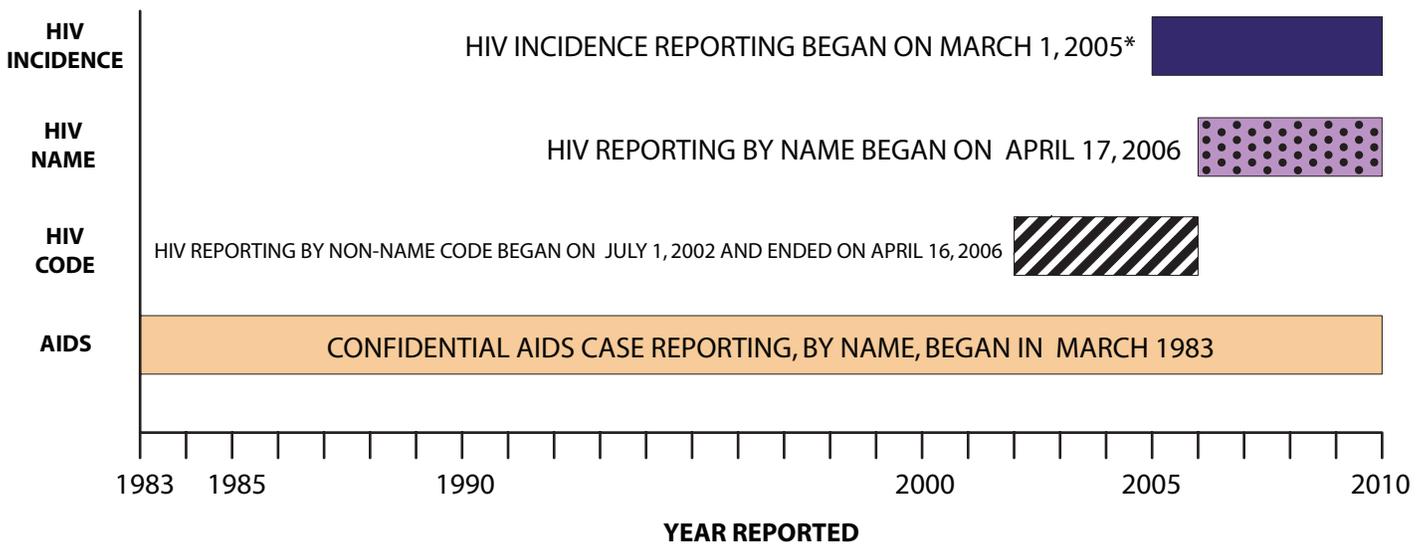
**For more information please contact the HIV/AIDS Surveillance Section at (916) 449-5954.**

## 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**



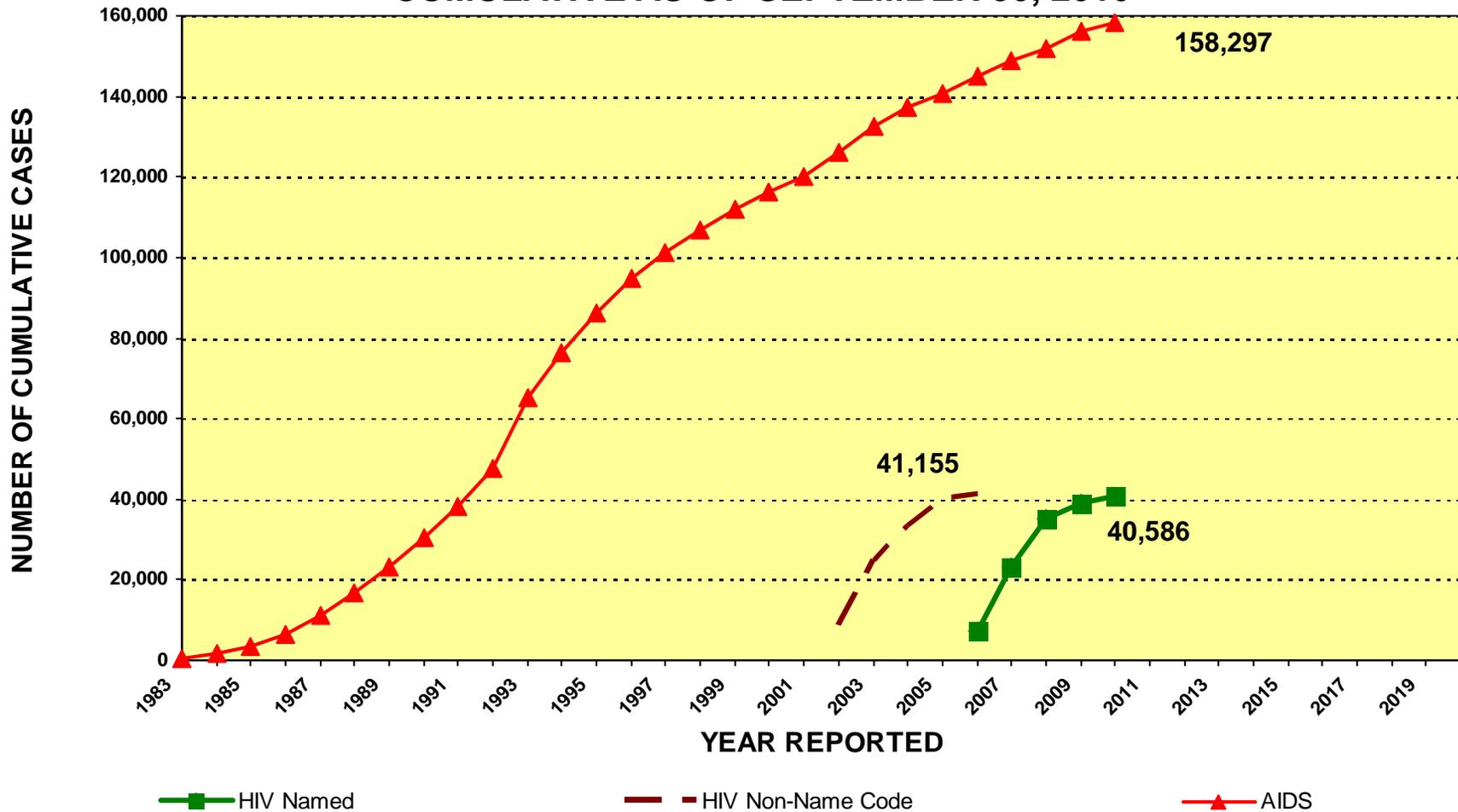
In California and the rest of the United States, HIV infections and AIDS diagnoses are reported through a combination of passive and active surveillance. Passive surveillance is conducted through state required reporting of HIV and AIDS cases by health care providers and reporting of HIV-positive test 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, 2010



AIDS reporting began in March 1983.

HIV case totals through March 2006 represent HIV cases reported by non-name code. Beginning April 2006, the 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. Statistics reported for the current quarter may vary from previous quarters due to data cleaning efforts that are ongoing at the Office of AIDS, Surveillance Section. Those data cleaning efforts include duplicate resolution of cases which may result in a net decrease for some jurisdictions comparing the current quarter to the preceding quarter.

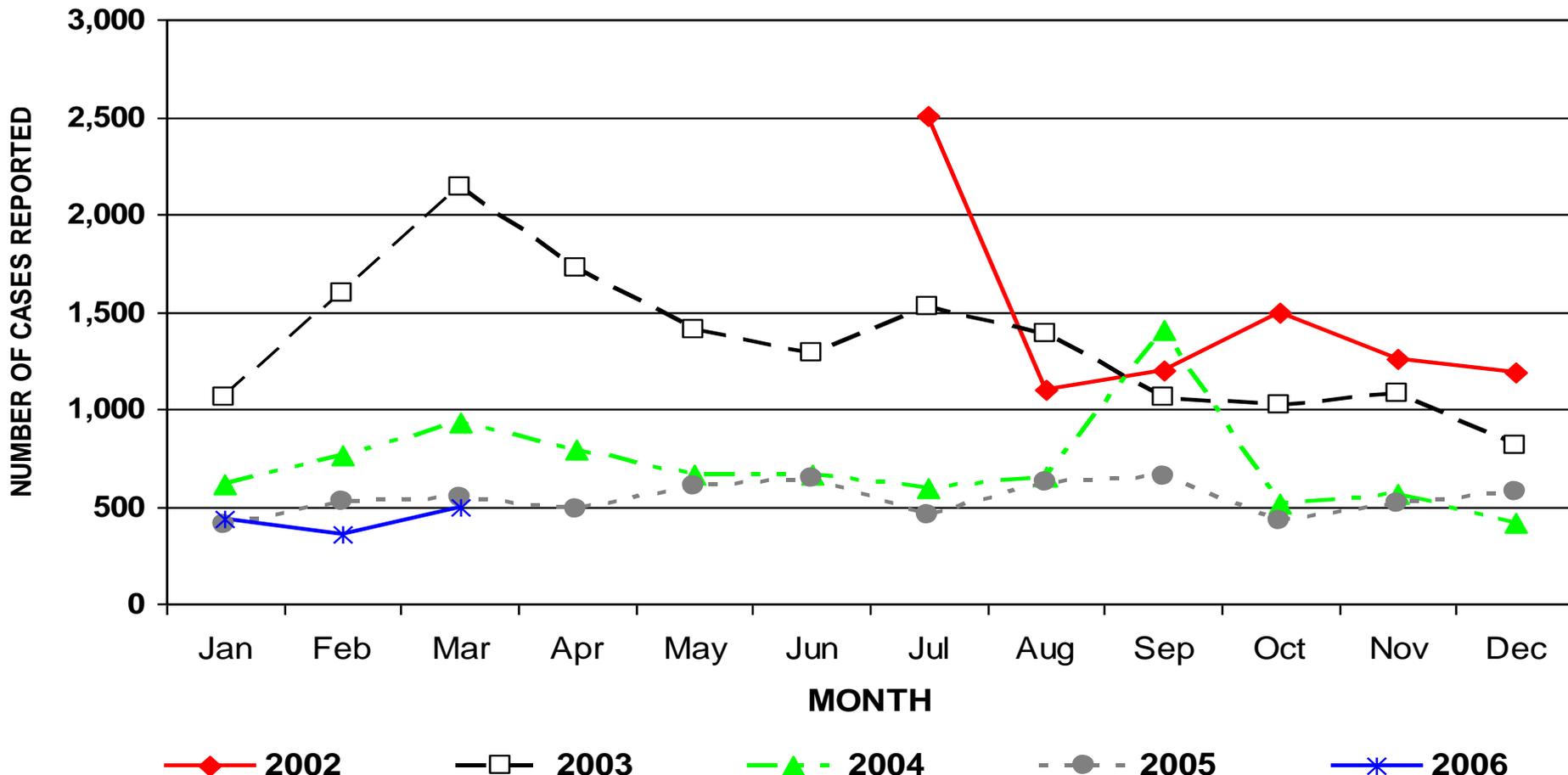
Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of SEPTEMBER 30, 2010.

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



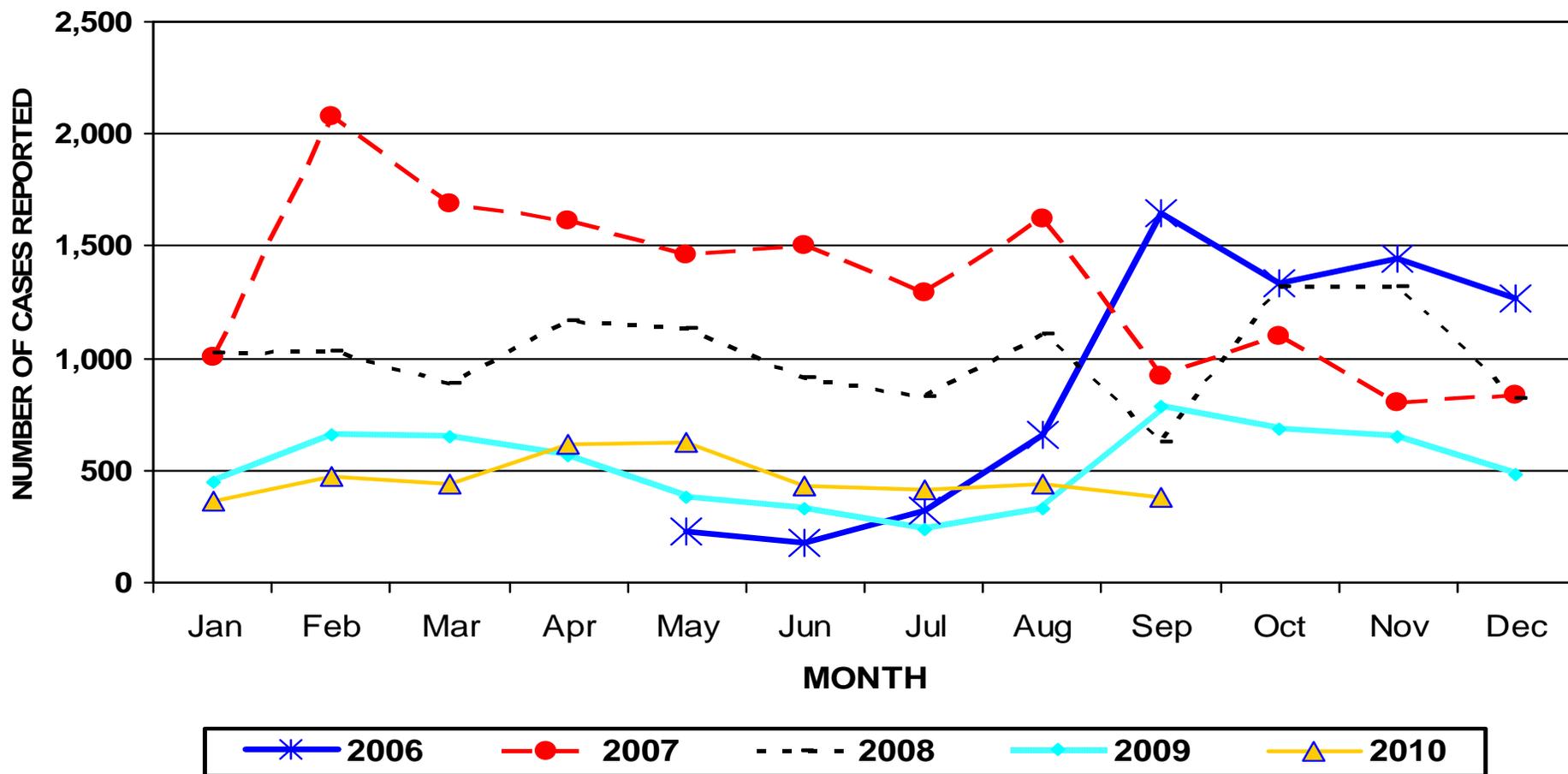
HIV case totals through March 2006 represent HIV cases reported by non-name code. Beginning April 2006, HIV case total are based on HIV cases reported by name. Due to reporting system differences, HIV cases reported by non-name code and name cannot be combined for unduplicated case counts.

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, 2010



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, 2010.

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# QUARTERLY REPORT OF HIV/AIDS CASES BY COUNTY IN CALIFORNIA CUMULATIVE AS OF SEPTEMBER 30, 2010

TABLE 1.

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	1,415	1,398	17	1	8,065	3,723	4,342	54	Orange	2,803	2,629	174	6	7,702	3,766	3,936	51
<i>Berkeley</i>	109	109	0	0	673	268	405	60	Placer	38	37	1	3	191	97	94	49
Alpine	0	0	0	0	0	0	0	0	Plumas	1	1	0	0	12	5	7	58
Amador	11	11	0	0	51	25	26	51	Riverside	1,389	1,368	21	2	5,877	3,373	2,504	43
Butte	72	65	7	10	276	132	144	52	Sacramento	1,285	1,269	16	1	3,854	1,815	2,039	53
Calaveras	6	6	0	0	20	9	11	55	San Benito	6	5	1	17	48	27	21	44
Colusa	1	1	0	0	13	1	12	92	San Bernardino	1,523	1,433	90	6	4,039	1,949	2,090	52
Contra Costa	647	623	24	4	2,970	1,225	1,745	59	San Diego	4,428	4,309	119	3	14,435	7,188	7,247	50
Del Norte	10	10	0	0	38	25	13	34	San Francisco	5,769	5,517	252	4	28,653	9,412	19,241	67
El Dorado	55	54	1	2	189	72	117	62	San Joaquin	450	448	2	0	1,297	690	607	47
Fresno	397	394	3	1	1,779	888	891	50	San Luis Obispo	143	143	0	0	607	321	286	47
Glenn	6	5	1	17	17	9	8	47	San Mateo	371	366	5	1	2,272	951	1,321	58
Humboldt	72	70	2	3	240	94	146	61	Santa Barbara	131	130	1	1	873	366	507	58
Imperial	64	63	1	2	233	140	93	40	Santa Clara	837	828	9	1	4,309	2,173	2,136	50
Inyo	2	2	0	0	17	8	9	53	Santa Cruz	141	138	3	2	630	278	352	56
Kern	624	613	11	2	1,920	1,257	663	35	Shasta	40	39	1	3	188	83	105	56
Kings	67	66	1	1	233	139	94	40	Sierra	1	1	0	0	4	0	4	100
Lake	18	17	1	6	155	67	88	57	Siskiyou	8	7	1	13	46	20	26	57
Lassen	10	9	1	10	59	34	25	42	Solano	447	437	10	2	1,650	863	787	48
Los Angeles	15,693	15,189	504	3	56,837	24,718	32,119	57	Sonoma	338	327	11	3	2,093	922	1,171	56
<i>Long Beach</i>	1,344	1,305	39	3	6,043	3,112	2,931	49	Stanislaus	145	142	3	2	777	402	375	48
<i>Pasadena</i>	147	144	3	2	796	299	497	62	Sutter	27	27	0	0	76	27	49	64
Madera	65	65	0	0	168	99	69	41	Tehama	9	7	2	22	36	21	15	42
Marin	265	252	13	5	1,673	660	1,013	61	Trinity	2	2	0	0	13	5	8	62
Mariposa	2	2	0	0	15	7	8	53	Tulare	64	61	3	5	357	158	199	56
Mendocino	25	22	3	12	215	84	131	61	Tuolumne	15	15	0	0	71	31	40	56
Merced	52	51	1	2	221	103	118	53	Ventura	292	290	2	1	1,114	512	602	54
Modoc	0	0	0	0	2	0	2	100	Yolo	53	52	1	2	230	101	129	56
Mono	0	0	0	0	6	3	3	50	Yuba	4	4	0	0	65	27	38	58
Monterey	139	139	0	0	975	452	523	54	Unknown	4	4	0	0	4	2	2	50
Napa	93	90	3	3	254	105	149	59									
Nevada	11	11	0	0	133	58	75	56									
<b>TOTAL</b>	<b>40,586</b>	<b>39,264</b>	<b>1,322</b>	<b>3</b>	<b>158,297</b>	<b>69,722</b>	<b>88,575</b>	<b>56</b>									

AIDS reporting began in March 1983. HIV reporting began in April 2006. Statistics calculated using reports through 09/30/2010.

Counts exclude cases diagnosed, but not yet reported as of June 30, 2010 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, 2010.

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





# CALIFORNIA HIV/AIDS QUARTERLY SUMMARY REPORT

## CASES REPORTED AS OF SEPTEMBER 30, 2010

TABLE 2.

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
<b>GENDER</b>												
Male	33,827	86.2	34,927	86.1	61,237	87.8	143,192	90.5	95,064	87.2	178,119	89.6
Female	5,163	13.1	5,377	13.2	7,905	11.3	14,166	8.9	13,068	12.0	19,543	9.8
Transgender	274	0.7	282	0.7	580	0.8	939	0.6	854	0.8	1,221	0.6
<b>RACE/ETHNICITY</b>												
White	18,281	46.6	18,981	46.8	31,798	45.6	85,657	54.1	50,079	45.9	104,638	52.6
Black	7,327	18.7	7,636	18.8	13,004	18.7	28,100	17.8	20,331	18.7	35,736	18.0
Hispanic	11,582	29.5	11,832	29.2	21,813	31.3	38,766	24.5	33,395	30.6	50,598	25.4
Asian/Pacific Islander	1,480	3.8	1,514	3.7	2,377	3.4	3,994	2.5	3,857	3.5	5,508	2.8
American Indian/Alaskan Native	182	0.5	187	0.5	310	0.4	651	0.4	492	0.5	838	0.4
Multi-race	308	0.8	331	0.8	364	0.5	1,029	0.7	672	0.6	1,360	0.7
Unknown/Other	104	0.3	105	0.3	56	0.1	100	0.1	160	0.1	205	0.1
<b>EXPOSURE CATEGORY</b>												
MSM/Bisexual Male	26,396	67.2	26,954	66.4	44,350	63.6	105,542	66.7	70,746	64.9	132,496	66.6
Injection Drug Use	2,539	6.5	2,808	6.9	6,675	9.6	15,907	10.0	9,214	8.5	18,715	9.4
MSM/Bisexual Male & IDU	2,496	6.4	2,612	6.4	6,166	8.8	15,079	9.5	8,662	7.9	17,691	8.9
Hemophiliac/Transfusion*	83	0.2	99	0.2	437	0.6	2,212	1.4	520	0.5	2,311	1.2
Heterosexual Contact	3,556	9.1	3,641	9.0	6,599	9.5	10,110	6.4	10,155	9.3	13,751	6.9
Other/Unknown*	3,905	9.9	4,176	10.3	5,177	7.4	8,839	5.6	9,082	8.3	13,015	6.5
Perinatal Exposure	289	0.7	296	0.7	318	0.5	608	0.4	607	0.6	904	0.5
<b>AGE GROUP**</b>												
Under 13 years of age	331	0.8	340	0.8	278	0.4	682	0.4	609	0.6	1,022	0.5
13 to 19 years of age	1,034	2.6	1,041	2.6	503	0.7	718	0.5	1,537	1.4	1,759	0.9
20 to 29 years of age	11,284	28.7	11,454	28.2	11,343	16.3	24,056	15.2	22,627	20.8	35,510	17.9
30 to 39 years of age	14,204	36.2	14,593	36.0	29,412	42.2	66,891	42.3	43,616	40.0	81,484	41.0
40 to 49 years of age	8,960	22.8	9,360	23.1	20,195	29.0	45,040	28.5	29,155	26.8	54,400	27.4
Over 49 years of age	3,451	8.8	3,798	9.4	7,991	11.5	20,910	13.2	11,442	10.5	24,708	12.4
<b>TOTAL</b>	<b>39,264</b>	<b>100.0</b>	<b>40,586</b>	<b>100.0</b>	<b>69,722</b>	<b>100.0</b>	<b>158,297</b>	<b>100.0</b>	<b>108,986</b>	<b>100.0</b>	<b>198,883</b>	<b>100.0</b>

AIDS reporting began in March 1983. HIV reporting began in April 2006. Statistics calculated using reports through 09/30/2010.

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 base upon age of diagnosis.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2010.

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



## CUMULATIVE HIV/AIDS CASES IN CALIFORNIA MODE OF EXPOSURE BY RACE/ETHNICITY REPORTED AS OF SEPTEMBER 30, 2010

TABLE 3.

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	14,101	3,644	7,751	1,458	26,954	64,773	12,917	24,148	3,704	105,542	78,874	16,561	31,899	5,162	132,496
IDU	1,213	888	609	98	2,808	5,770	6,157	3,584	396	15,907	6,983	7,045	4,193	494	18,715
MSM/Bi & IDU	1,524	427	543	118	2,612	9,017	2,823	2,746	493	15,079	10,541	3,250	3,289	611	17,691
Heterosexual Contact	1,000	1,222	1,223	196	3,641	2,755	3,295	3,532	528	10,110	3,755	4,517	4,755	724	13,751
Other	1,143	1,455	1,706	267	4,571	3,342	2,908	4,756	653	11,659	4,485	4,363	6,462	920	16,230
<b>TOTAL</b>	18,981	7,636	11,832	2,137	40,586	85,657	28,100	38,766	5,774	158,297	104,638	35,736	50,598	7,911	198,883

AIDS reporting began in March 1983. HIV reporting began in April 2006. Statistics calculated using reports through 09/30/2010.

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.

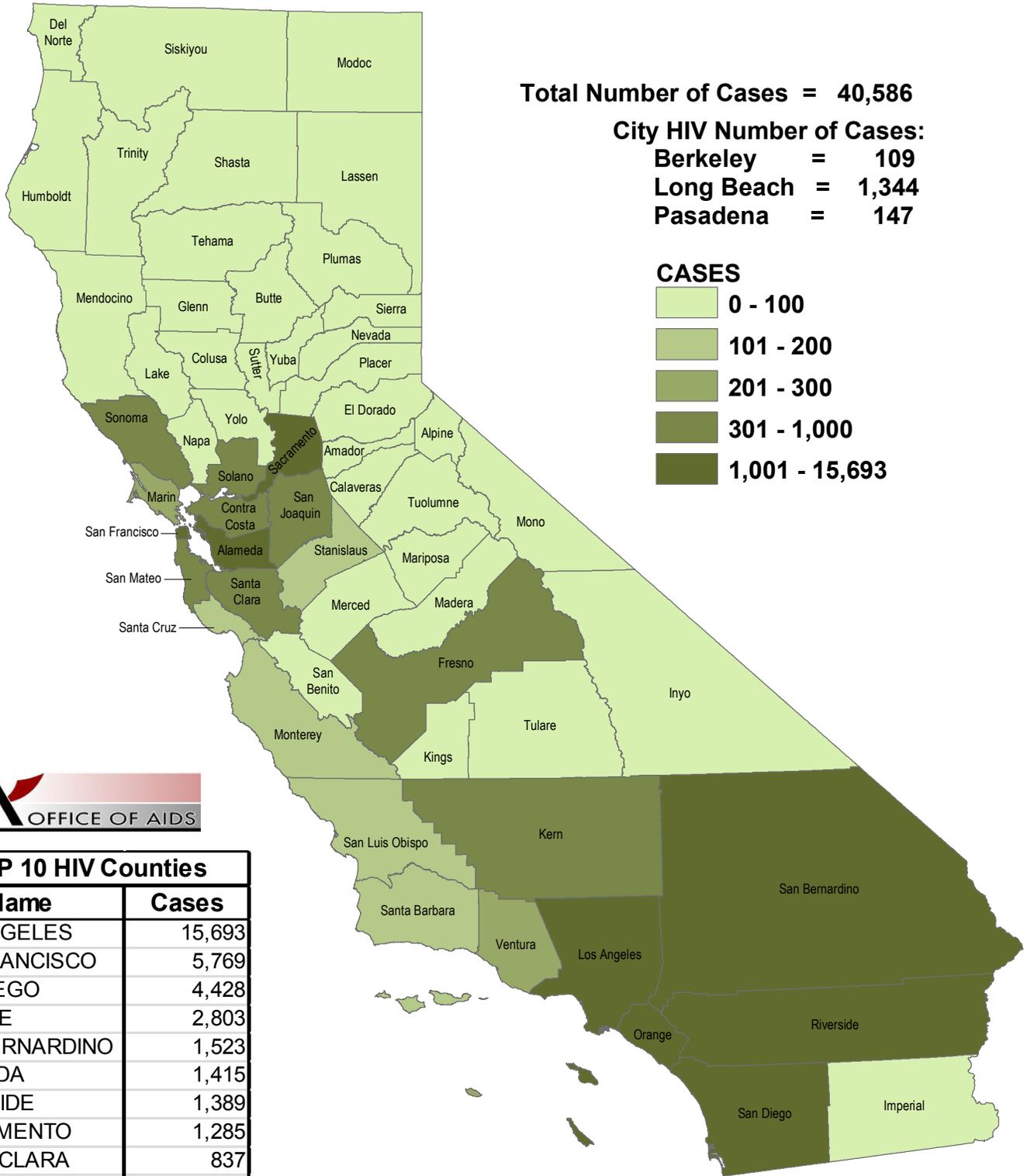
Other Mode of Exposure includes Hemophiliac, Transfusion of blood or blood products/Transplant, Confirmed other risk, No identified risk and Pediatric.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2010.

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

# HIV CASES IN CALIFORNIA QUARTERLY REPORT CUMULATIVE AS OF SEPTEMBER 30, 2010

Figure 5.



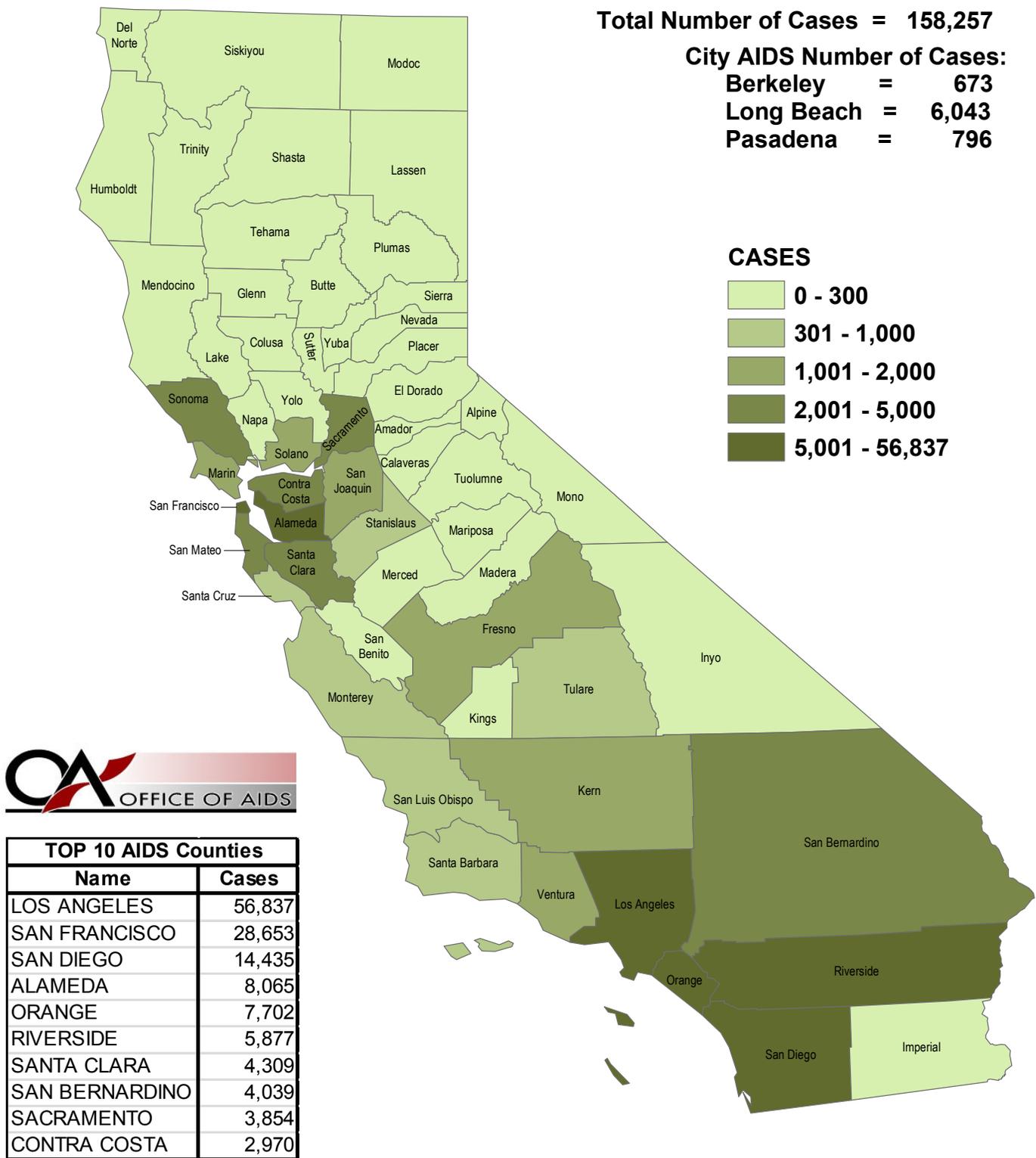
<b>TOP 10 HIV Counties</b>	
<b>Name</b>	<b>Cases</b>
LOS ANGELES	15,693
SAN FRANCISCO	5,769
SAN DIEGO	4,428
ORANGE	2,803
SAN BERNARDINO	1,523
ALAMEDA	1,415
RIVERSIDE	1,389
SACRAMENTO	1,285
SANTA CLARA	837
CONTRA COSTA	647

HIV reporting began in April 2006.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Case Registry Section, data as of September 30, 2010. For more information, call the HIV/AIDS Surveillance Section at (916) 449-5954.

# AIDS CASES IN CALIFORNIA QUARTERLY REPORT CUMULATIVE AS OF SEPTEMBER 30, 2010

## Figure 6.

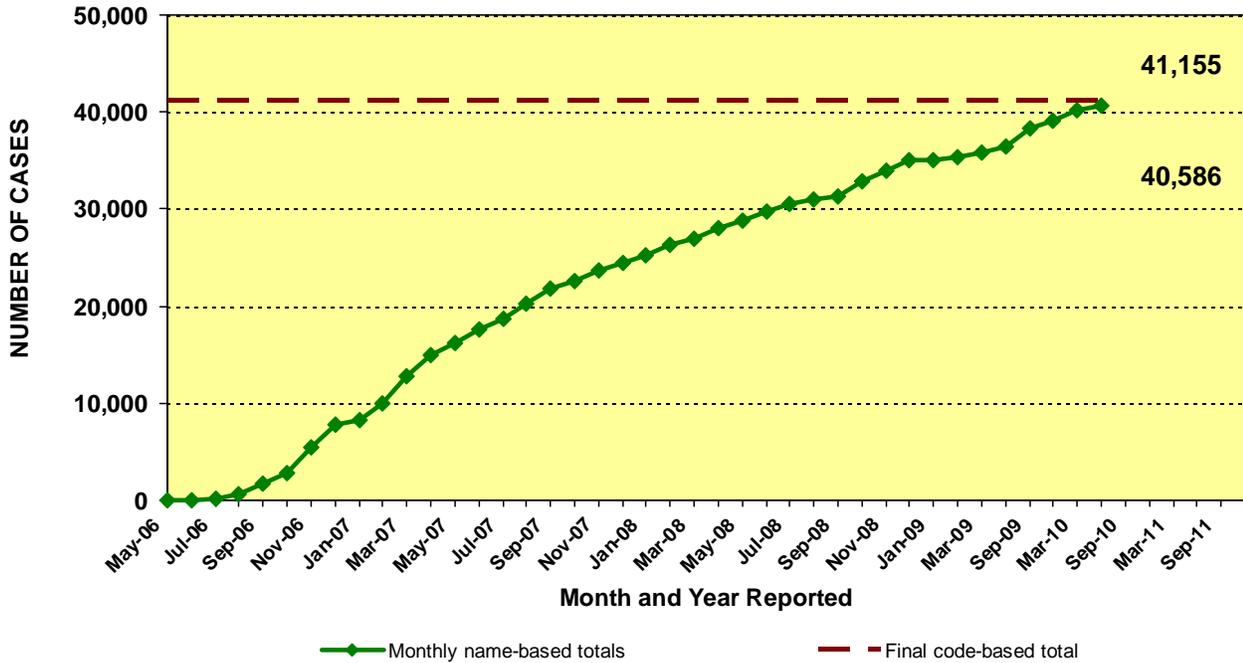


HIV reporting began in April 2006.

Source: California Department of Public Health, Office of AIDS, HIV/AIDS Surveillance Section, data as of September 30, 2010. 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, 2010

Figure 7.



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	1,415	1,713
Berkeley	109	123
Alpine	0	1
Amador	11	21
Butte	72	87
Calaveras	6	3
Colusa	1	3
Contra Costa	647	688
Del Norte	10	16
El Dorado	55	49
Fresno	397	692
Glenn	6	4
Humboldt	72	93
Imperial	64	61
Inyo	2	2
Kern	624	534
Kings	67	95
Lake	18	33
Lassen	10	8
Los Angeles	15,693	15,304
Long Beach	1,344	1,397
Pasadena	147	130
Madera	65	106
Marin	265	352
Mariposa	2	5
Mendocino	25	48
Merced	52	48
Modoc	0	0
Mono	0	0
Monterey	139	162
Napa	93	73
Nevada	11	11

COUNTY	NAME-BASED	CODE-BASED
Orange	2,803	2,155
Placer	38	51
Plumas	1	4
Riverside	1,389	1,691
Sacramento	1,285	814
San Benito	6	2
San Bernardino	1,523	1,271
San Diego	4,428	4,944
San Francisco	5,769	6,182
San Joaquin	450	411
San Luis Obispo	143	133
San Mateo	371	392
Santa Barbara	131	143
Santa Clara	837	1,017
Santa Cruz	141	152
Shasta	40	16
Sierra	1	0
Siskiyou	8	6
Solano	447	418
Sonoma	338	415
Stanislaus	145	214
Sutter	27	24
Tehama	9	4
Trinity	2	0
Tulare	64	79
Tuolumne	15	13
Ventura	292	313
Yolo	53	62
Yuba	4	14
Unknown	4	3
<b>TOTAL</b>	<b>40,586</b>	<b>41,155</b>

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, 2010.  
 For more information, call the HIV/AIDS Surveillance Section at (916) 449-5866.