

# HIV/AIDS EPIDEMIOLOGY REPORT



## **Public Health Division Communicable Disease Programs**

**February 2003**

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## Reporting HIV/AIDS

### How to report:

- Call the numbers listed below
  - Denise Root* (925) 313-6793
  - Maureen McHale* (925) 313-6790
  - Martin Lynch* (925) 313-6323
- Or complete a Confidential Morbidity Report card

### Why reporting is necessary:

- To plan future health care needs and services
- To monitor trends in HIV infection
- To project future numbers of HIV/AIDS cases
- To provide information and history of HIV/AIDS
- To plan prevention and educational activities
- It is the law

## Reporting HIV/AIDS: Summary of Legislation

**California Code of Regulations Title 17, Section 2500**, requires health care providers to report AIDS cases by name to the local health officer.

**California Code of Regulations Title 17, Section 2643.5-10**, requires health care providers and laboratories to report HIV by Non-Name code to the local health officer.

**California Code of Regulations Title 17, Section 2512**, allows health officers to investigate communicable diseases.

**California Code of Regulations Title 17, Section 2502**, requires local health officers to report HIV/AIDS cases to the Department of Health Services.

**California Health & Safety Code Section 120980**, HIV test results may be reported to local health authorities as part of an AIDS diagnosis.

**California Health & Safety Code Sections 120980, 120990, and 1603.3**, allow disclosure to public health authorities of result of HIV test performed on cadavers. Allows for HIV test to be performed on cadavers with out written consent as part of an autopsy or in conjunction with anatomical gifts.

**California Health and Safety Code Section 121025**, protects the confidentiality of AIDS-related public health records that were developed or acquired by state or local public health agencies. Any personally-identifying information in these records must remain confidential and cannot be disclosed without written authorization from the person named in the record or his or her guardian or conservator, except to other local state or federal pubic health agencies or researchers who need the information to carry out their duties in the investigation, control or surveillance of disease. Any individuals to whom the information is disclosed are also required to keep the information confidential. No confidential public health record may be required to be disclosed in the context of any civil, criminal or administrative proceeding.

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***For copies call (925) 313-6323***

***or***

**<http://www.igc.org/ccchdata/aids/aids.html>**

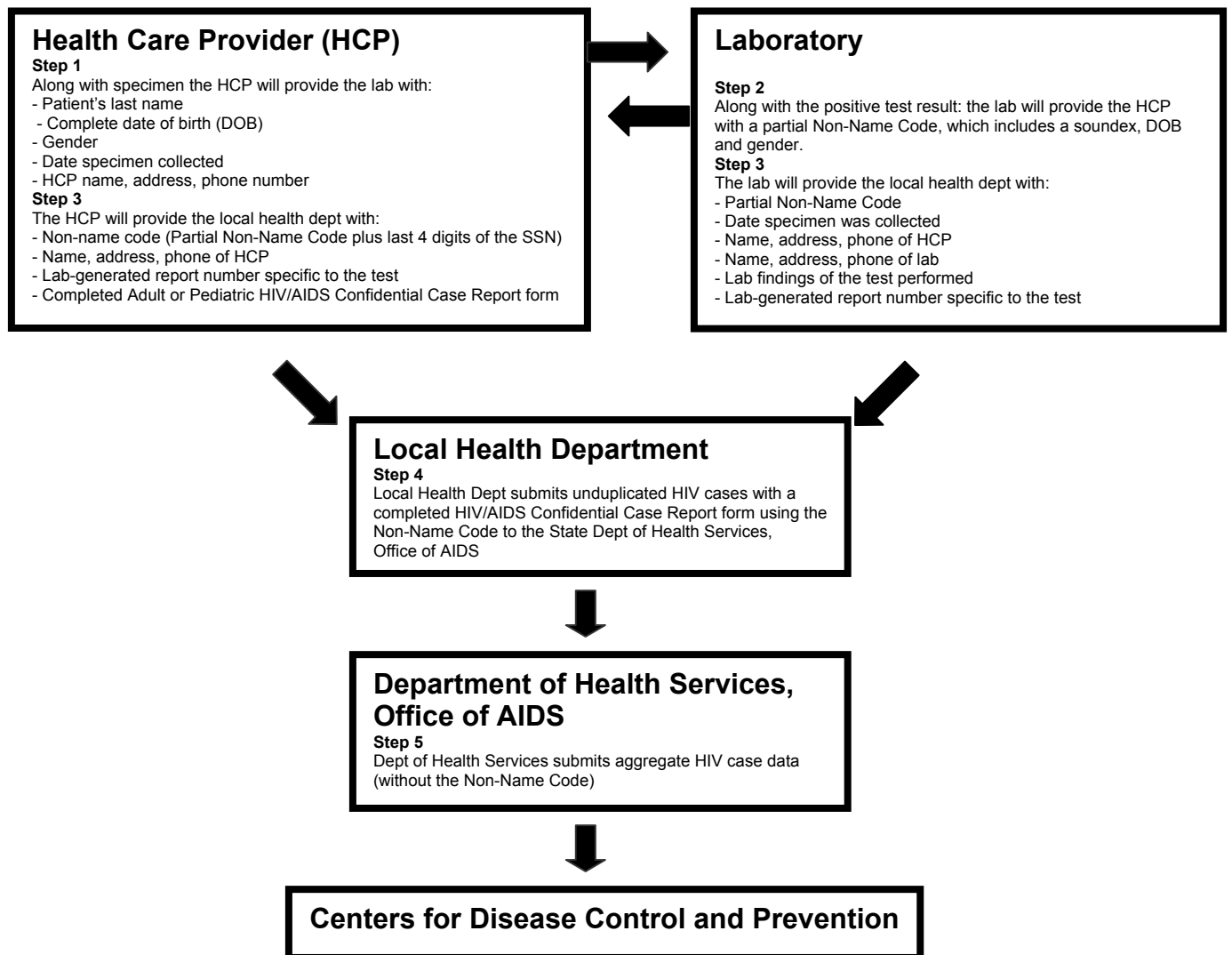


## HIV Is Now Reportable

The Centers for Disease Control and Prevention (CDC) has recommended that all States and Territories conduct case surveillance for human immunodeficiency virus (HIV) infection as an extension of current acquired immunodeficiency syndrome (AIDS) surveillance activities. The State of California uses a Non-Name Code to track HIV, which, along with AIDS case surveillance, will provide a better assessment of the epidemic.

The process involves a dual reporting system wherein both the clinical laboratory and the health care provider report selected components of the Non-Name Code for the same case to the local health department. Here in Contra Costa County we receive laboratory results from hospitals and the major statewide laboratories. We then contact the providers who ordered the test to obtain the remaining data necessary to complete the report. As of December 2002 over 200 unduplicated cases of HIV only have been completed.

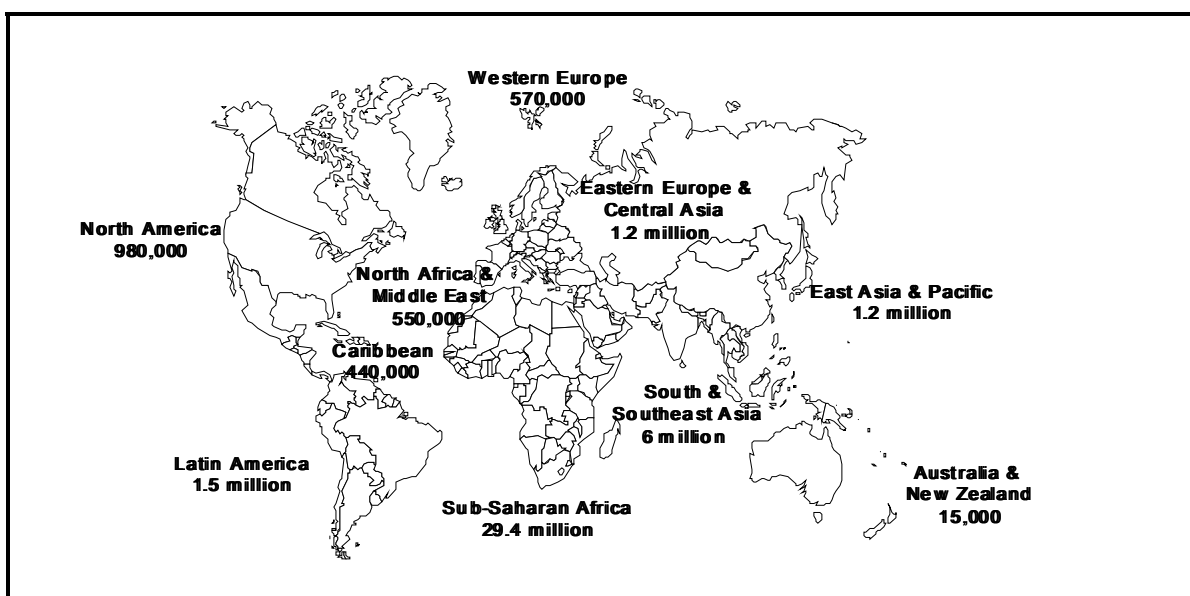
Below is a diagram of the HIV Reporting Process that went into effect July 1, 2002.



## Global Overview of the HIV/AIDS Epidemic

Twenty years after the first clinical evidence of AIDS was reported it has become the most devastating disease humankind has ever faced. Since the epidemic began, more than **60 million** people have been infected with the virus. HIV/AIDS is now the leading cause of death in sub-Saharan Africa. Worldwide it is the fourth biggest killer. Some sources estimate there will be **100 million** cases of AIDS worldwide by 2020.

At the end of 2002, an estimated **42 million** people globally were living with HIV/AIDS. In many parts of the developing world, the majority of new infections occur in young adults, with young women especially vulnerable. About one-third of those currently living with HIV/AIDS are aged 15-24. Most of them do not know they carry the virus. Many millions more know nothing or too little about HIV to protect themselves against it. Updated estimates of the number of people *living with HIV/AIDS* are listed below (figures are as of December 2002\*).

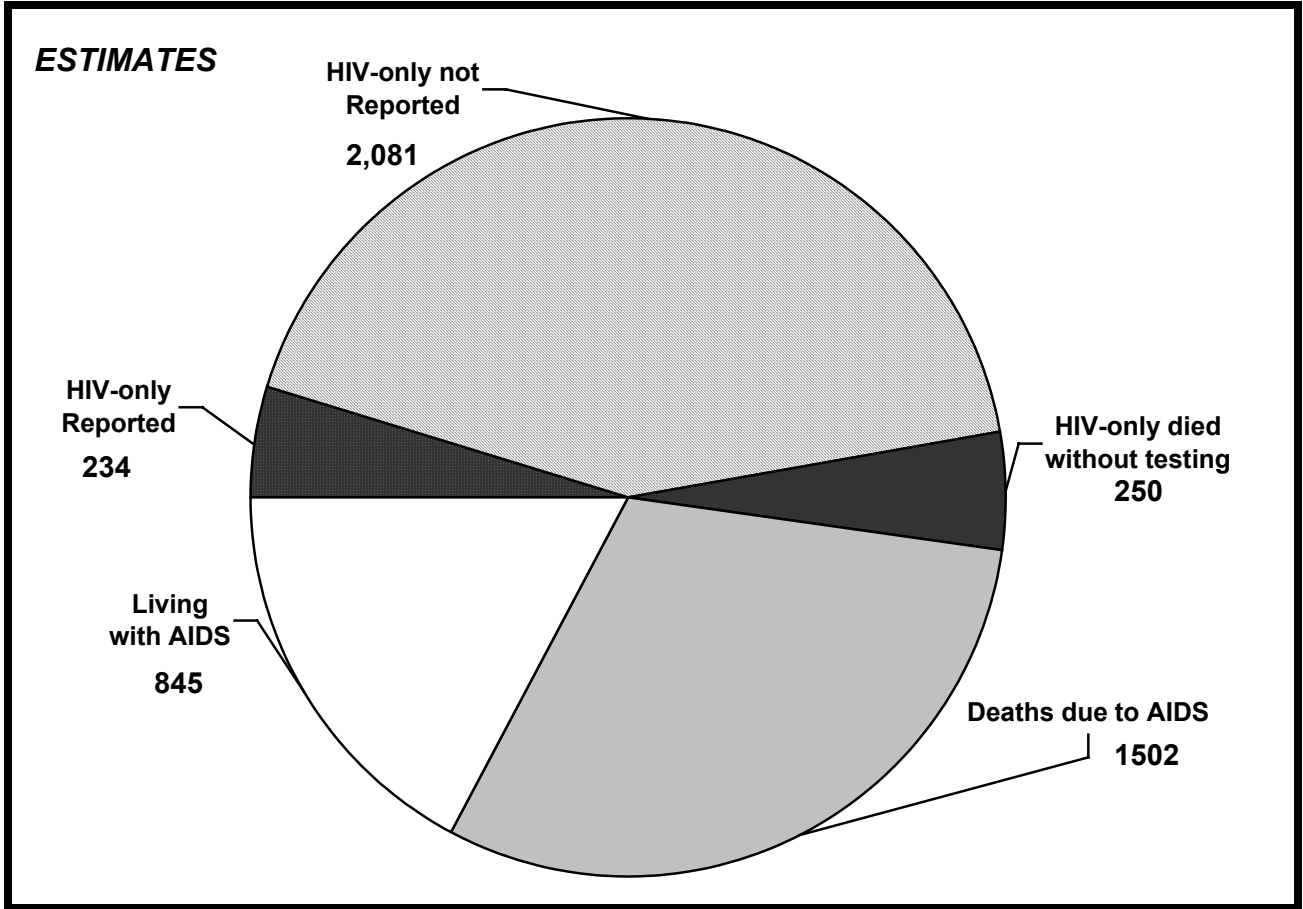


<b>People Newly Infected with HIV in 2002, Globally</b>	<b>Total</b>	<b>5.0 million</b>
	Adults	4.2 million
	Women	2.0 million
	Children	800,000
<b>Number of People Living with HIV/AIDS</b>	<b>Total</b>	<b>42.0 million</b>
	Adults	38.6 million
	Women	19.2 million
	Children	3.2 million
<b>AIDS Deaths in 2002</b>	<b>Total</b>	<b>3.1 million</b>
	Adults	2.5 million
	Women	1.2 million
	Children	610,000

\*Source: UNAIDS 'AIDS Epidemic Update 2002' December 2002

### Estimate of Contra Costa Residents Infected with HIV

Based on back calculations and more recent estimates by the State Office of AIDS approximately **4,900** Contra Costa residents are estimated to have been infected with HIV. Of these, **2,347 (47.9%)** have already been diagnosed with and reported to have AIDS and **1,502 (30.7%)** of these people have died with AIDS. Since July 1, 2002, when HIV reporting regulations went into effect 234 cases of HIV-only, not AIDS, have been reported.



	Cases	Deaths	
<b>Contra Costa</b>	2,347	1,502	(12/31/02)
<b>Bay Area*</b>	44,742	28,741	(12/31/02)
<b>California</b>	128,196	77,377	(12/31/02)
<b>U.S.</b>	816,149	467,910	(12/31/01)
<b>World**</b>	63 million	24.8 million	(12/31/01)

\*Bay Area Counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma  
 \*\* Cumulative estimate of persons with HIV/AIDS

## Diagnosed AIDS Cases

Beginning in July 2002, HIV became a reportable condition in California. Before this, HIV infection without AIDS was not reportable. Only diagnosed AIDS cases were reported to the Health Department up to this date. ***An individual who has tested HIV positive is diagnosed with AIDS when one of two events occurs: either the patient's CD4 count drops below 200 cells/ $\mu$ l (or <14%); or the patient is diagnosed with one of 26 AIDS defining infections, cancers or conditions.*** Below is a table indicating frequencies of how individuals in Contra Costa have been diagnosed with AIDS and a frequency list of cancers and opportunistic infections or conditions reported by those diagnosed with HIV/AIDS\*.

<b>Cumulative Cases<sup>‡</sup></b>			
<b>Diagnosis Category</b>	<b>Adult</b>	<b>Pediatric</b>	<b>Total</b>
<b>Cancer or Opportunistic infection</b>	1493	12	1505
<b>Immunological (CD4&lt;200 or 14%)</b>	842	0	842
<b>Total</b>	2335	12	2347

### Frequency of Occurrence of Cancers, Opportunistic Infections or Conditions Among People in Contra Costa Diagnosed with AIDS\*

<b>Cancer, infection or condition*</b>	<b>Frequency</b>	<b>Cancer, infection or condition*</b>	<b>Frequency</b>
Candidiasis, bronchi, trachea or lungs	24	Immunoblastic lymphoma	30
Candidiasis, esophageal	159	Primary lymphoma in brain	8
Coccidioidomycosis	6	Mycobacterium avium complex or M. kansasii	256
Cryptococcosis	70	M. tuberculosis, pulmonary	85
Cryptosporidiosis	37	M. tuberculosis, disseminated or extrapulm.	35
Cytomegalovirus disease	61	Mycobacterium, of other species	13
Cytomegalovirus retinitis	67	Pneumocystis carinii pneumonia	658
HIV encephalopathy (dementia)	117	Recurrent bacterial pneumonia (<12mos)	1
Herpes simplex (>1 month)	39	Progressive multi focal leukoencephalopathy	18
Histoplasmosis	5	Salmonella septicemia, recurrent	0
Isosporiasis (>1 month)	2	Toxoplasmosis of brain	38
Kaposi's sarcoma	230	Wasting	213
Burkitt's lymphoma	10	Lymphoid interstitial pneumonia	2

\*Individual patients may have contracted more than one of the above listed opportunistic infections/conditions.

<sup>‡</sup>Cumulative cases reported from 2/1/82 to 12/31/02.



## 2,347 CONTRA COSTA COUNTY RESIDENTS DIAGNOSED WITH AIDS

Through December 31, 2002, a cumulative total of **2,347** cases of AIDS have been reported to the Public Health Department. This represents a cumulative incidence of **239.1** per 100,000 population using 2002 estimates from the California State Department of Finance.

### Total AIDS cases reported through 12/31/02

### Mode of infection and gender distribution

#### Adult and adolescent cases (n=2,334)

Mode of HIV infection	Male (%)	Female (%)	Total (%)
Gay/bisexual	1373 (69.7)	0 (0)	1373 ( 58.8)
Heterosexual injection drug use	348 (17.7)	180 (49.3)	528 (22.6)
Gay/bisexual injection drug use	119 (6.0)	0 (0)	119 (5.1)
Hemophilia	17 (0.9)	0 (0)	17 (0.7)
Heterosexual contact	22 (1.1)	146 (40.0)	168 (7.2)
Transfusion with blood/blood product	28 (1.4)	17 (4.7)	45 (1.9)
Risk not reported	62 (3.2)	22 (6.0)	84 (3.6)
<b>Total</b>	<b>1969 (100)</b>	<b>365 (100)</b>	<b>2334 (100)</b>

#### Pediatric cases (n=13)

Mode of HIV infection	Male (%)	Female (%)	Total (%)
Parent at risk or has HIV/AIDS	5 (62.5)	5 (100)	10 (76.9)
Transfusion with blood/blood product	3 (37.5)	0 (0)	3 (23.1)
<b>Total</b>	<b>8 (100)</b>	<b>5 (100)</b>	<b>13 (100)</b>

### Total AIDS Cases Reported in Contra Costa Through 12/31/02 Race/Ethnicity Distribution

Race/ethnicity	Adult/adolescent cases (%)	Pediatric cases (%)	Total (%)
White	1,297 (55.6)	4 (30.8)	<b>1,301 (55.4)</b>
African American	725 (31.1)	4 (30.8)	<b>729 (31.1)</b>
Latino	256 (11.0)	5 (38.5)	<b>261 (11.1)</b>
Asian/Pacific Islander	47 (2.0)	0 (0)	<b>47 (2.0)</b>
Native American/Alaskan	9 (0.4)	0 (0)	<b>9 (0.4)</b>
<b>Total</b>	<b>2,334 (100)</b>	<b>13 (100)</b>	<b>2,347 (100)</b>

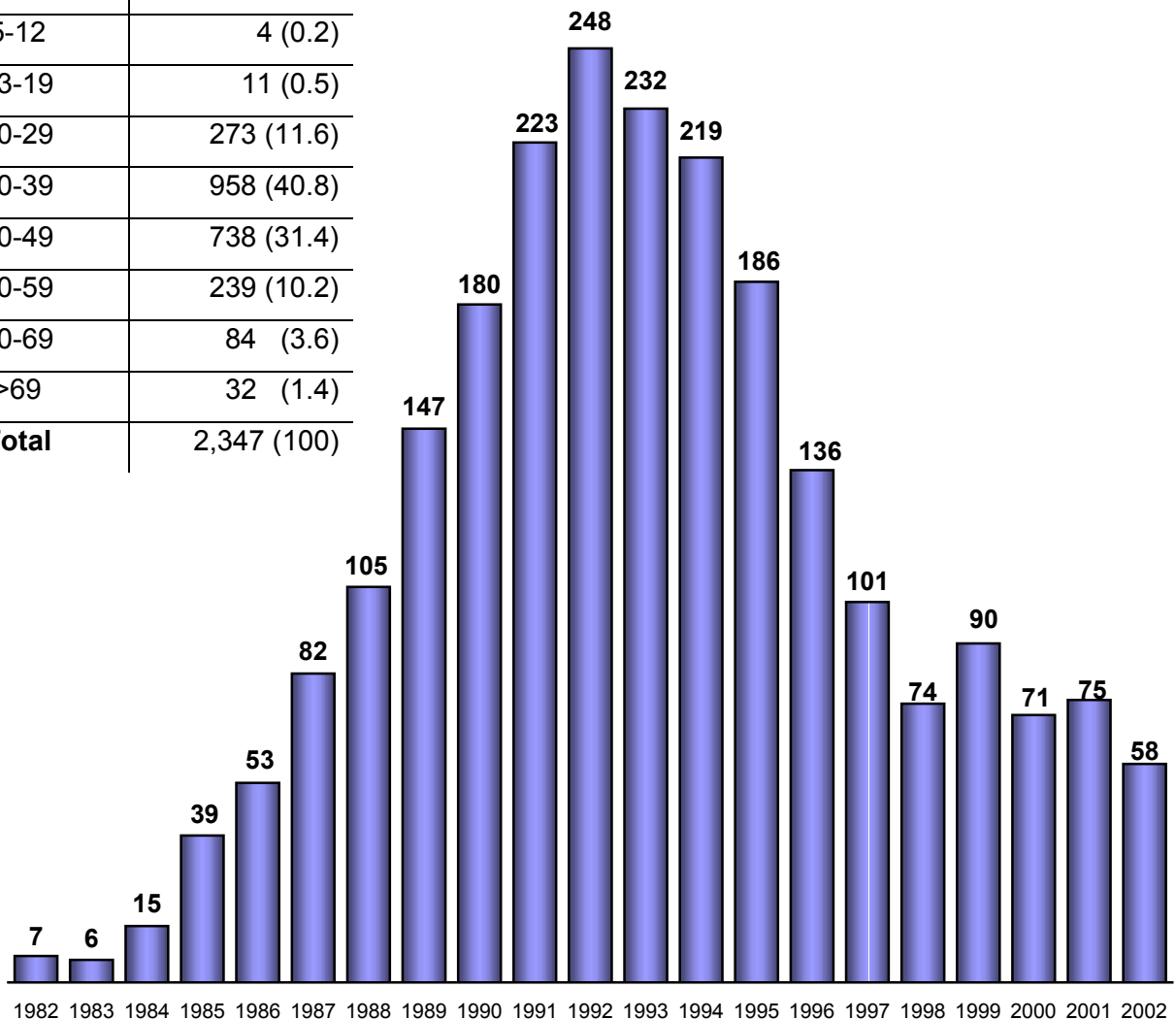
#### Age Distribution

(Age at time of diagnosis)

Age Groups	Total (%)
<5	8 (0.3)
5-12	4 (0.2)
13-19	11 (0.5)
20-29	273 (11.6)
30-39	958 (40.8)
40-49	738 (31.4)
50-59	239 (10.2)
60-69	84 (3.6)
>69	32 (1.4)
<b>Total</b>	<b>2,347 (100)</b>

#### Year of Diagnosis

(new diagnoses)



**People in Contra Costa County Living with AIDS**  
as of 12/31/02 (n=845)

**Mode of Infection and Gender Distribution**

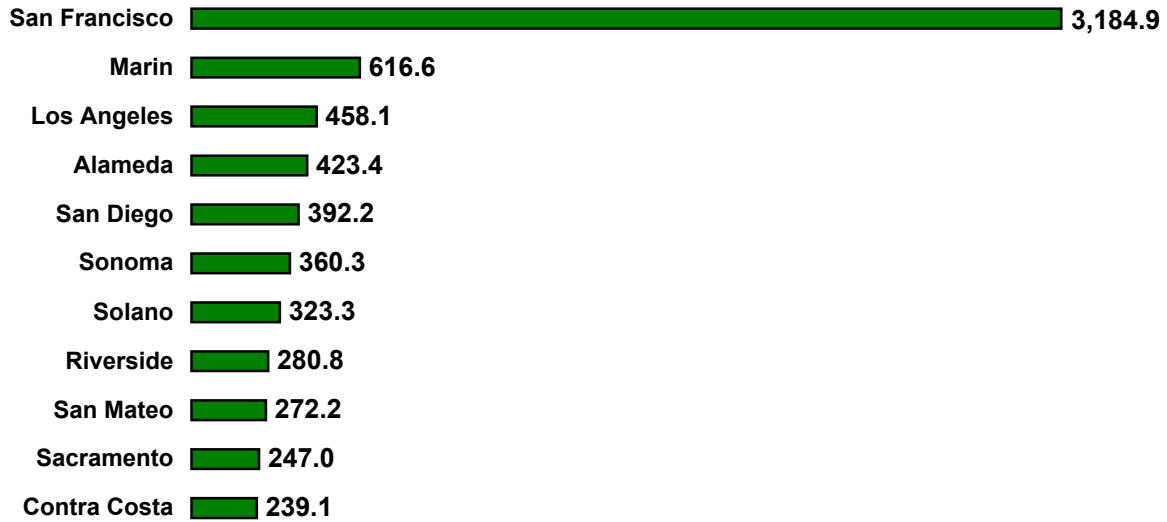
Mode of infection	Male (%)	Female (%)	Total (%)
<b>Gay/Bisexual</b>	462 (68.8)	0 (0)	<b>462 (54.7)</b>
<b>Heterosexual injection drug use</b>	118 (17.6)	80 (46.0)	<b>198 (23.4)</b>
<b>Gay/bisexual injection drug use</b>	36 (5.4)	0 (0)	<b>36 (4.3)</b>
<b>Hemophilia</b>	5 (0.8)	0 (0)	<b>5 (0.6)</b>
<b>Heterosexual contact</b>	13 (1.9)	75 (43.1)	<b>88 (10.4)</b>
<b>Transfusion with blood/blood product</b>	1 (0.2)	5 (2.9)	<b>6 (0.7)</b>
<b>Parent at risk for HIV</b>	3 (0.4)	2 (1.1)	<b>5 (0.6)</b>
<b>Risk not reported</b>	33 (4.9)	12 (6.9)	<b>45 (5.3)</b>
<b>Total</b>	<b>671 (100)</b>	<b>174 (100)</b>	<b>845 (100)</b>

**Race/Ethnicity**

Race/ethnicity	Adult/adolescent	Pediatric	Total (%)
<b>White</b>	431	0	<b>431 (51.0)</b>
<b>African American</b>	286	2	<b>288 (34.1)</b>
<b>Latino</b>	100	3	<b>103 (12.2)</b>
<b>Asian/Pacific Islander</b>	21	0	<b>21 (2.5)</b>
<b>Native American/Alaskan</b>	2	0	<b>2 (0.2)</b>
<b>Total</b>	<b>840</b>	<b>5</b>	<b>845 (100)</b>

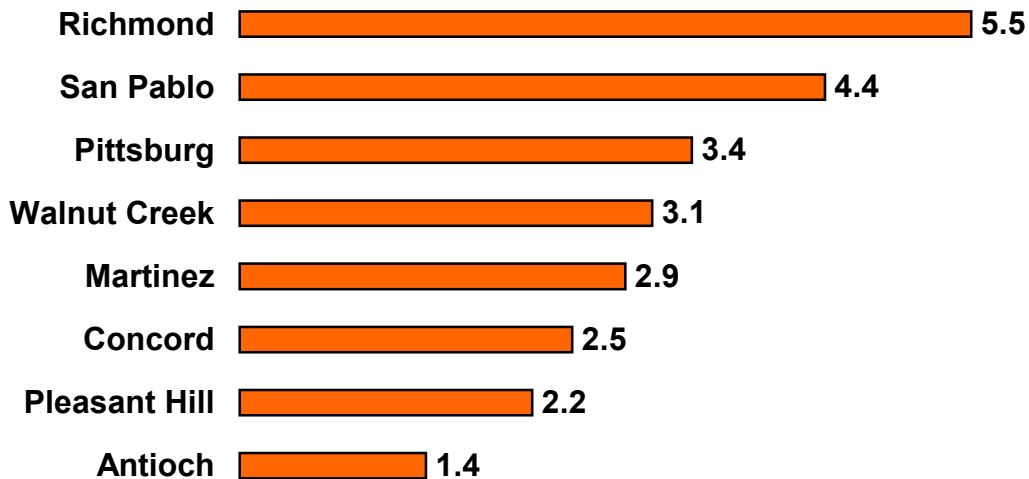
### California Counties with the Highest Cumulative Incidence of AIDS

*Cases per 100,000 population using 2002 population estimates from the California State Department of Finance, as of 12/31/02*



### Contra Costa Cities with Highest Cumulative Incidence of AIDS

*Incidence per 1,000 population using 2002 estimates from the California State Department of Finance, reported for cities with >50 cases, as of 12/31/02*



### Contra Costa Residents with AIDS By city of residence as of 12/31/02

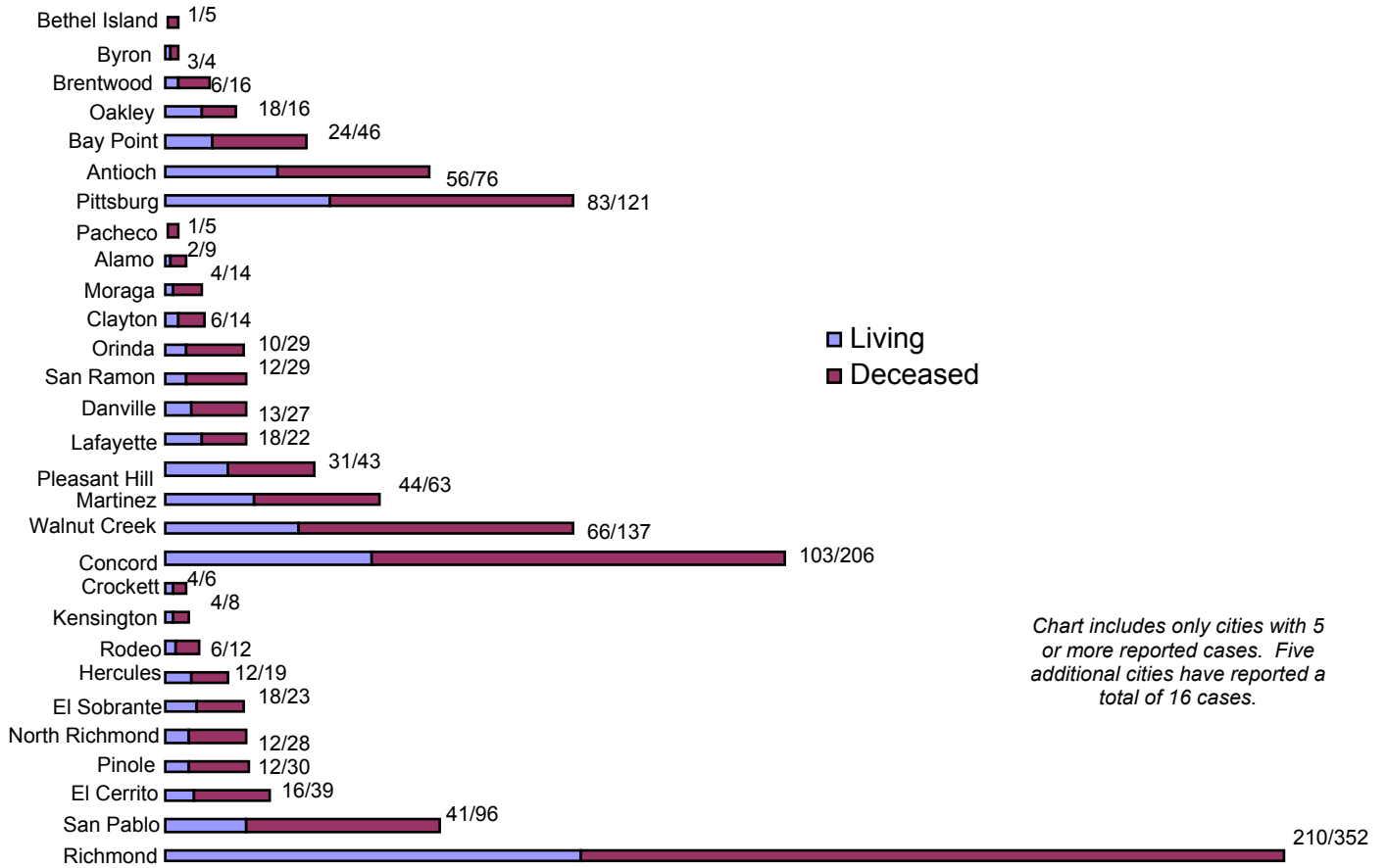
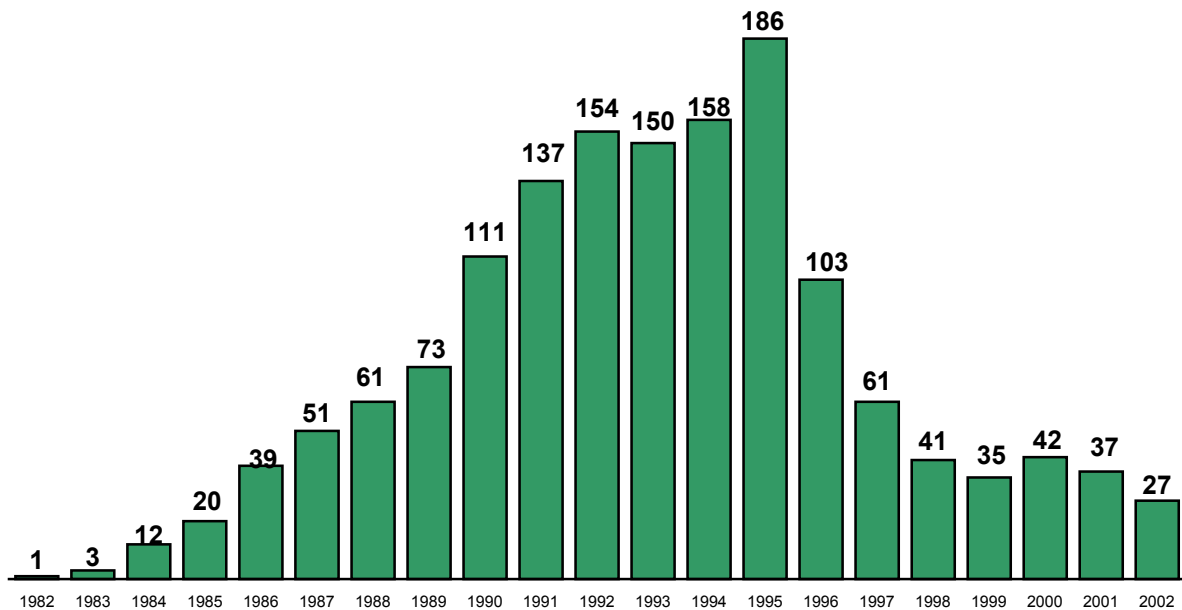


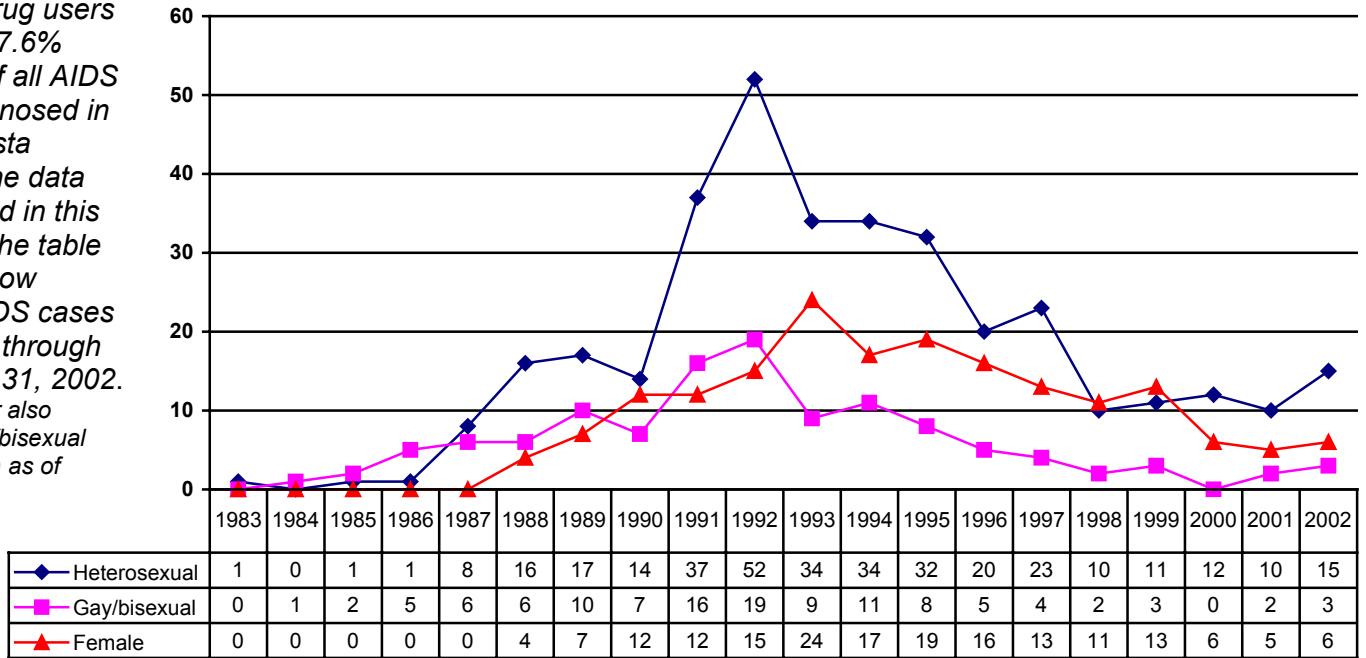
Chart includes only cities with 5 or more reported cases. Five additional cities have reported a total of 16 cases.

### Deaths Among People Diagnosed with AIDS in Contra Costa By year of death as of 12/31/02 (n=1,502)



### Injection Drug Users Diagnosed with AIDS

Injection drug users make up 27.6% (n=647\*) of all AIDS cases diagnosed in Contra Costa county. The data represented in this chart and the table directly below reflects AIDS cases diagnosed through December 31, 2002. \*This number also includes gay/bisexual IDUs (n=119) as of 12/31/02.



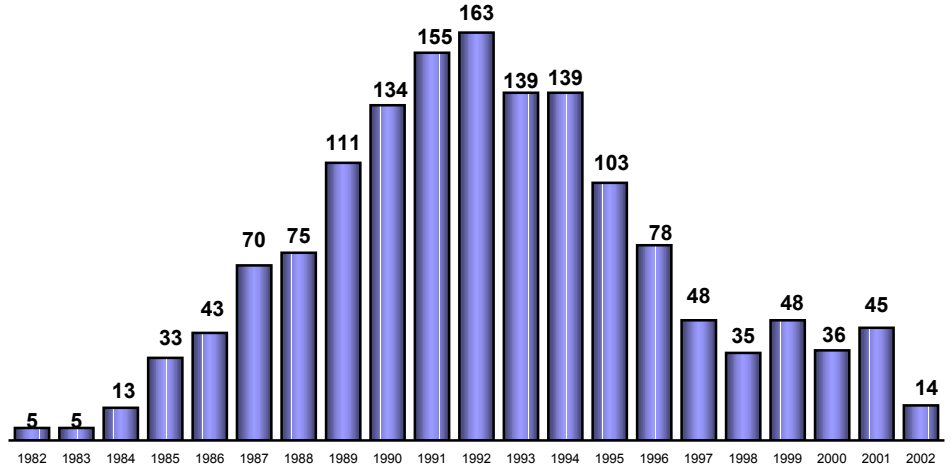
### Race/Ethnicity of Injection Drug Users Diagnosed with AIDS (as of 12/31/02)

Race/Ethnicity	Male IDUs	Female IDUs	Total (%)
White	162	36	198 (30.6)
African American	256	133	389 (60.1)
Latino	43	10	53 (8.2)
Asian/Pacific Islander	4	1	5 (0.8)
Native American	2	0	2 (0.3)
<b>Total</b>	<b>467</b>	<b>180</b>	<b>647 (100)</b>

### AIDS Among Gay/Bisexual Men (as of 12/31/02)

Gay and bisexual men (n=1,492\*), constitute the group from which 63.6% of all cases have been reported in the county and the largest group from which new cases are emerging. Nevertheless, a declining trend is observed in the proportion of AIDS cases from this group.

\*This number includes both IDU gay/bisexual men (n=119) and non-IDU gay/bisexual men (n=1,373)



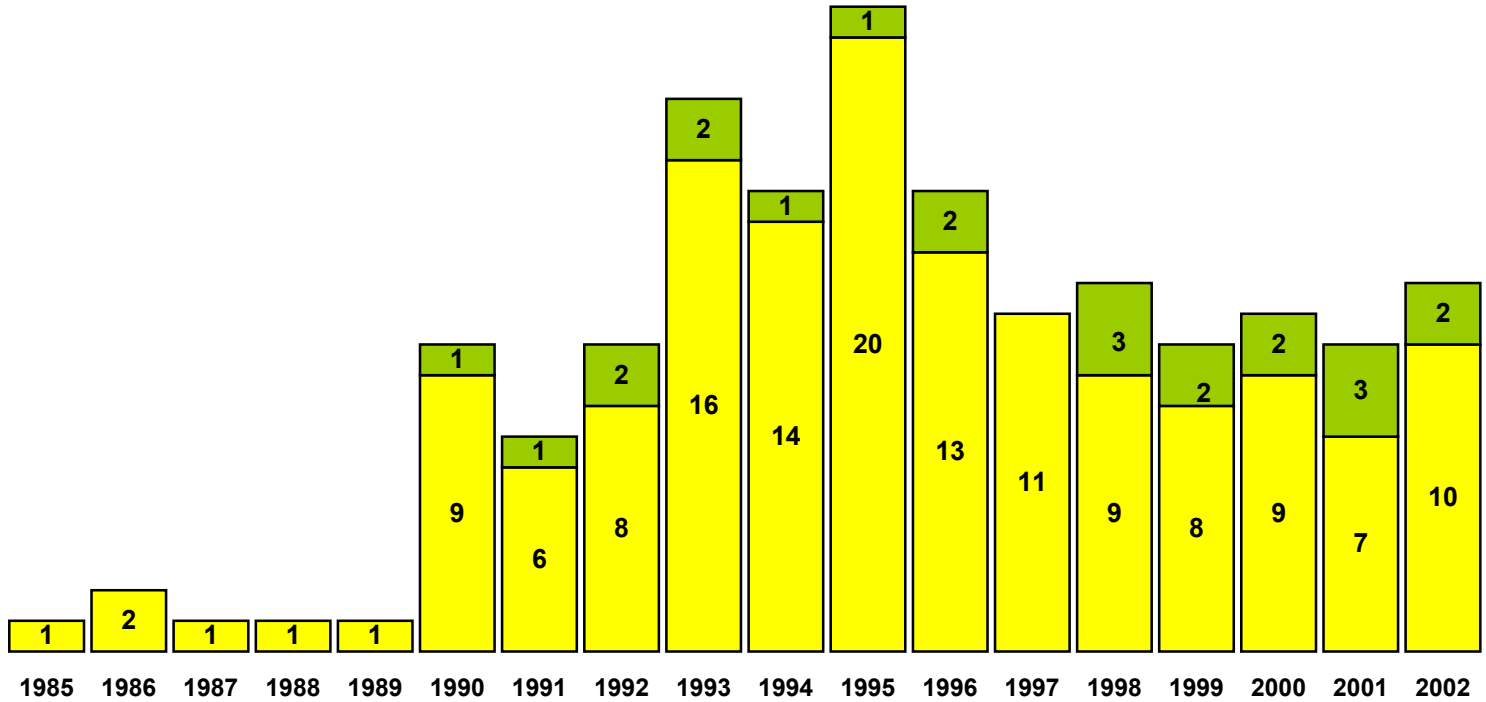
### Persons with AIDS who are Men Having Sex with Men by Race/Ethnicity and Age Groups

This number includes both IDU gay/bisexual men (n=119) and non-IDU gay/bisexual men (n=1,373)  
(as of 12/31/02)

Age Groups	White	African American	Latino	Asian/Pacific Islander	Native American	Total
10-19	0	1	0	0	0	1
20-29	115	43	27	4	0	189
30-39	453	99	77	12	6	647
40-49	317	70	37	11	3	438
50-59	109	36	14	2	0	161
60-69	35	3	7	1	0	46
70-79	7	2	0	0	0	9
80-89	0	1	0	0	0	1
<b>Total</b>	<b>1036</b>	<b>255</b>	<b>162</b>	<b>30</b>	<b>9</b>	<b>1492</b>

**AIDS Diagnoses Among Heterosexual Men and Women**  
 (Risk is self-reported by each individual case)  
 By year of diagnosis, as of 12/31/02

■ male  
 ■ female



**Summary of AIDS Patients Infected Through Heterosexual Contact**  
 by mode of infection of their infected partner, as of 12/31/02

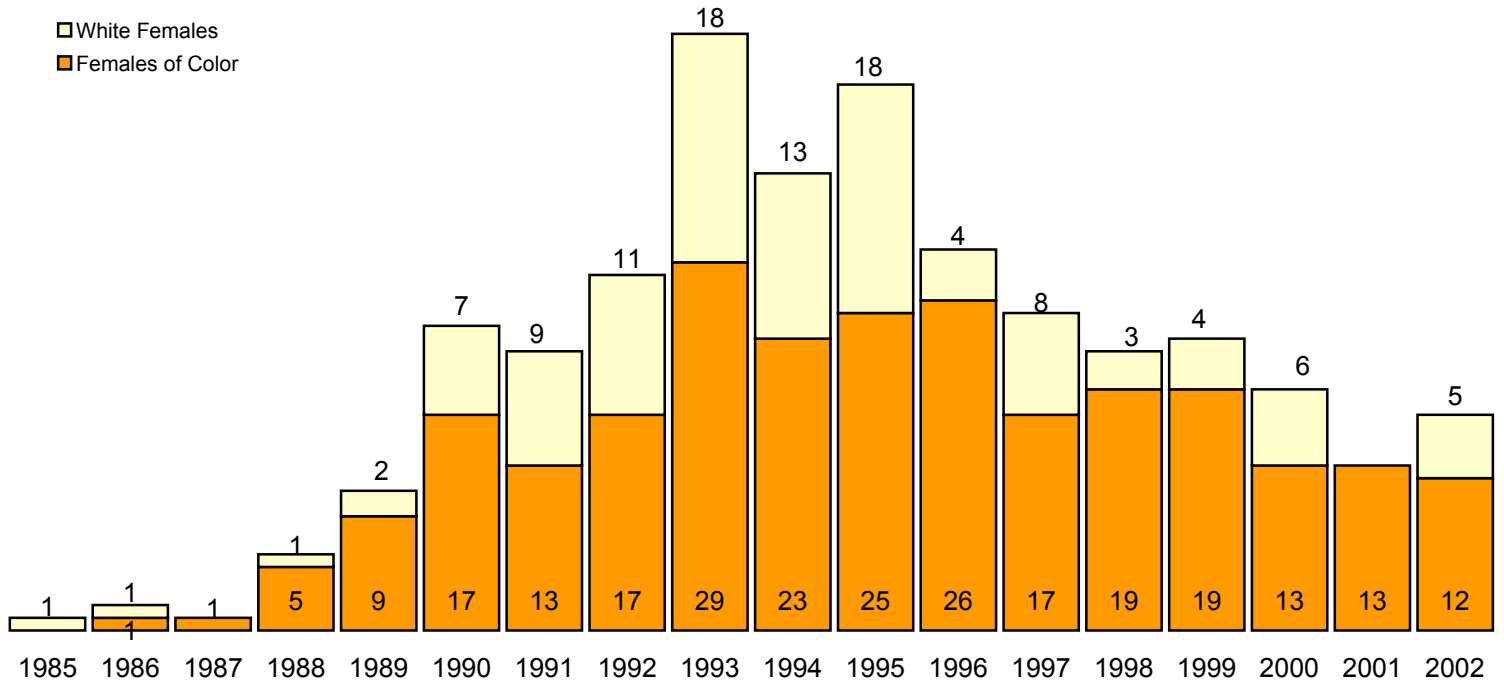
constitute 86.9%  
 diagnosed with  
 who were infected  
 heterosexual  
 The mode of  
 of the  
 sexual partner is  
 an injection drug  
 (%).

Heterosexual contact with:	Male	Female	Total (%)
<b>Injection drug user</b>	7	69	<b>76 (45.2)</b>
<b>Bisexual male</b>	0	29	<b>29 (17.3)</b>
<b>Hemophiliac</b>	0	1	<b>1 (0.6)</b>
<b>Transfusion recipient</b>	0	2	<b>2 (1.2)</b>
<b>Risk under investigation/unidentified risk</b>	15	45	<b>60 (35.7)</b>
<b>Total</b>	22	146	<b>168 (100)</b>



## AIDS Epidemic Among Females

### Race/Ethnicity Distribution of Females Diagnosed with AIDS by year of diagnosis as of 12/31/02



### Mode of Infection of Females Diagnosed with AIDS by age at time of diagnosis

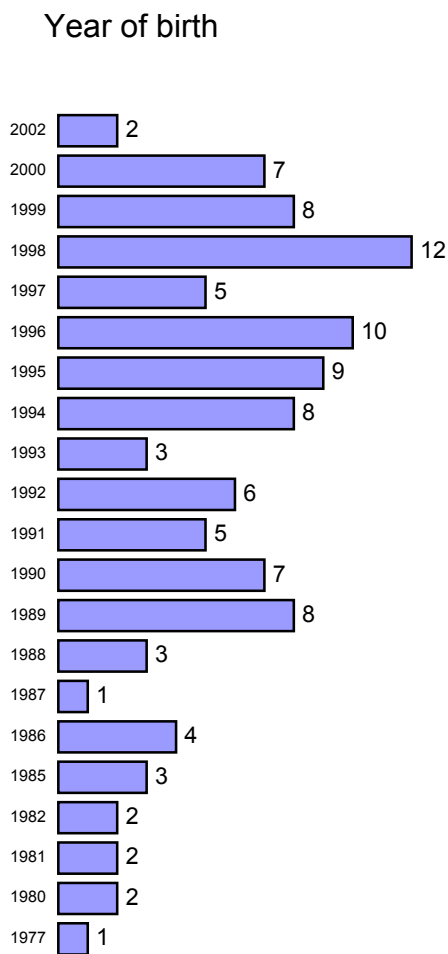
Mode	0-9	10-19	20-29	30-39	40-49	50-59	60+	Total
<b>IDU</b>	0	0	19	95	57	8	1	180
<b>Heterosexual contact</b>	0	2	23	57	42	14	9	147
<b>Transfusion</b>	0	1	3	4	3	2	3	16
<b>Maternal exposure</b>	5	0	0	0	0	0	0	5
<b>Risk not reported</b>	0	1	5	7	6	1	2	22
<b>Total</b>	5	4	50	163	108	25	15	370

### Children with HIV/AIDS

**13** Contra Costa children (1-12 years) have been diagnosed with AIDS  
**108** Contra Costa children have tested positive for HIV

**Ten** of those patients diagnosed with AIDS were infected from perinatal transmission and **three** were through infected blood/blood products. Of those infants who were exposed to HIV maternally, an estimated one-third were infected with HIV, while the transient maternal antibodies present in the other two-thirds will disappear by the second year of life.

#### Demographic characteristics of the above patients



Exposure Category	Total
Maternal HIV/AIDS	24
Maternal IDU	31
Maternal sex with HIV/AIDS	42
Maternal sex with IDU	4
Pediatric Hemophilia	1
Pediatric Transfusion/transplant	6
<b>Total</b>	<b>108</b>

Race/Ethnicity	Total
White	23
Black	60
Asian	1
Hispanic	17
Unknown	7
<b>Total</b>	<b>108</b>

*Source: Stanford University School of Medicine, California Pediatric HIV Surveillance Data (as of 12/4/2002)*

### HIV Partner Counseling & Referral Services

The Epidemiology, Surveillance and Health Data Unit provides partner notification services. These services include counseling to HIV positive persons about partner disclosure, coaching clients on how to tell their partners themselves, and **notifying selected partners without disclosing client identity.**

If a health care provider would like to refer a HIV positive client for PCRS services the provider can call *Denise Root* at (925) 313-6793.

## Summary of HIV Surveillance Data

As of 12/31/02

### Age at Time of HIV Diagnosis

Age	Total (%)
20-29	35 (15)
30-39	87 (37)
40-49	70 (30)
Over 49	42 (18)
<b>Total</b>	<b>234 (100)</b>

*Beginning July 1, 2002, HIV became a reportable communicable disease to be reported by both laboratories and health care providers by a Non-Name Code. These tables summarize the HIV cases that have been reported to the local health department as of December 31, 2002.*

### Race/Ethnicity

Race/Ethnicity	Total (%)
White	104 (44)
Black	98 (42)
Hispanic	26 (11)
Asian/Pacific Islander	4 (2)
Native American/Alaskan native	0 (0)
Unknown	2 (1)
<b>Total</b>	<b>234 (100)</b>

### Exposure Category by Gender

Exposure Category	Male (%)	Female (%)	Total (%)
Men who have sex with men	78 (45)	0 (0)	78 (33)
Injection Drug Use	61 (35)	25 (42)	86 (37)
MSM & IDU	7 (4)	0 (0)	7 (3)
Heterosexual contact	1 (1)	20 (33)	21 (9)
Unidentified Risk/under investigation	27 (15)	15 (25)	42 (18)
<b>Total</b>	<b>174 (100)</b>	<b>60 (100)</b>	<b>234 (100)</b>

## HIV Related Services Provided in Contra Costa County

During the period of **March 1, 2002, through December 31, 2002**, the following partial list of services have been reported by community-based organizations and agencies serving people with HIV/AIDS in Contra Costa County. Data is not available from many organizations and individuals assisting those affected by the epidemic but not funded by the CARE Act or HOPWA:

<b>284</b>	people received transportation and/or gasoline to attend health and support services
<b>67</b>	people received transportation van services
<b>4</b>	people received <b>252</b> home-delivered meals
<b>269</b>	people received food vouchers
<b>263</b>	people received <b>11,059</b> bags of groceries
<b>131</b>	people received direct emergency assistance to pay for utilities and other bills
<b>301</b>	people received case management services
<b>75</b>	people received services at a day support center in Richmond
<b>116</b>	people received counseling to assist them in applying for benefits
<b>107</b>	people received housing advocacy assistance
<b>6</b>	people received <b>671</b> hours of home care so that they could remain in their homes
<b>81</b>	people received HIV-related legal services

## Who is Receiving Services in Contra Costa County

In the ten month period **March 1, 2002, through December 31, 2002**, demographic data was collected from **627** individuals (unduplicated) who received services from agencies/programs funded by the federal government under Ryan White CARE Act and Housing Opportunities for People with AIDS (HOPWA).

### HIV/AIDS Status

*serostatus known of 620 (99%) clients*

	n	%
AIDS	305	49.2
Symptomatic HIV	104	16.8
Non-Symptomatic HIV	211	34.0

### Primary Language

*(n=627)*

	n	%
English	563	89.8
Spanish	41	6.5
Other	12	1.9
Unknown	11	1.8

### Gender

*(n=627)*

	n	%
Male	416	66.3
Female	208	33.2
Unknown	3	0.5

### Current Living Situation

*(varies throughout year)*

	n
Homeless in emergency shelter	14
Homeless on streets	12
Hospital or medical facility	1
Hotel/motel	3
Jail/prison	1
Living with friends/relatives	175
Rental Housing	371
Substance abuse treatment facility	4
Transitional Housing	3
Other	49

### Mode of Transmission

*(some clients claim more than one risk)*

	n
Men having sex with men	202
MSM/IDU	18
Injection drug user	176
Blood product recipient	9
Sex Partner of IDU	44
Heterosexual contact	253
Pediatric	10
Other/Unknown	43

### Income

*(n=627)*

	n	%
No Income	106	16.9
Less than \$600 per month	164	26.2
Between \$601 and \$900 per month	277	44.2
Between \$901 and \$1200 per month	66	10.5
Over \$1200 per month	14	2.2

### Race/Ethnicity

*(n=627)*

	n	%
White	184	29.4
African American	333	53.1
Latino	66	10.5
Asian/Pacific Islander	9	1.4
Native American	9	1.4
Unknown	26	4.2