
Chronic Hepatitis C, California, 2013

❖ Chronic Hepatitis C in California

- Cases and Rates of Newly Reported Cases (including Cases in State Prisons), 1994-2013
- Cases and Rates of Newly Reported Cases by Gender and Age, and by Race, 2009-2013
- Cases and Rates of Newly Reported Non-Incarcerated Cases by Local Health Jurisdiction and Incarcerated Cases in State Prisons, 2009-2013

❖ Chronic Hepatitis C in California State Prisons

- Cases and Rates of Newly Reported Cases in State Prisons, 1994-2013
- Cases and Rates of Newly Reported Cases by Gender and Age, and by Race, 2009-2013

Chronic Hepatitis C - Cases and Rates of Newly Reported Cases*, California, 1994–2013**

Year	N	Rate
1994	1,132	3.6
1995	3,824	12.1
1996	5,303	16.6
1997	10,953	33.8
1998	17,184	52.3
1999	33,607	100.6
2000	37,513	110.3
2001	36,216	104.9
2002	32,411	92.8
2003	28,527	80.6
2004	32,000	89.5
2005	22,543	62.6
2006	28,084	77.5
2007	49,975	136.7
2008	47,739	129.5
2009	45,007	121.4
2010	35,918	96.2
2011	31,875	84.6
2012	25,977	68.3
2013	24,268	63.3

* Including cases in state prisons.

** Cases with a report date of December 31, 2013 or earlier, and reported to California Department of Public Health as of June 30, 2014.

Notes: • Rates are per 100,000 population.

• A total of 550,056 *confirmed* chronic hepatitis C infections were reported from 1994-2013. This does not represent the total number of people living with chronic hepatitis C in California. Additional analysis is needed to determine how many reported chronic hepatitis C cases are currently living.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention

Chronic Hepatitis C - Cases and Rates of Newly Reported Cases by Gender and Age, and by Race, California, 2009 - 2013

TOTAL	California Chronic Hepatitis C										Change in Rate from 2009 to 2013 ⁴
	2009		2010		2011		2012		2013		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
	45,007	121.4	35,918	96.2	31,875	84.6	25,977	68.3	24,268	63.3	-47.9%

BY GENDER & AGE	California Chronic Hepatitis C										Change in Rate from 2009 to 2013 ⁴
	2009		2010		2011		2012		2013		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
Female Total	13,345	71.6	11,307	60.2	10,202	53.9	8,677	45.4	8,051	41.8	-41.7%
Ages <18	172	3.8	131	2.9	119	2.6	102	2.3	101	2.3	-40.3%
18-24	443	23.9	444	23.5	488	25.6	421	21.9	470	24.3	1.8%
25-34	1,233	47.9	1,046	40.1	1,049	39.8	893	33.7	920	34.5	-28.0%
35-44	2,151	82.9	1,608	62.4	1,375	53.5	1,067	41.4	917	35.6	-57.1%
45-54	4,496	169.9	3,754	142.1	3,078	116.5	2,458	93.1	2,094	79.6	-53.2%
55-64	3,118	153.0	2,822	133.9	2,708	123.8	2,456	109.5	2,377	103.5	-32.4%
65+	1,672	70.5	1,454	60.2	1,335	53.6	1,237	47.7	1,140	42.3	-40.0%
Not Specified	60	-	48	-	50	-	43	-	32	-	-
Male Total	29,740	161.2	23,184	124.8	20,314	108.4	16,312	86.2	15,322	80.3	-50.2%
Ages <18	157	3.3	112	2.4	107	2.3	112	2.4	108	2.3	-29.9%
18-24	860	42.5	808	39.4	908	43.9	764	36.7	899	43.0	1.1%
25-34	3,518	130.5	2,857	104.7	2,651	95.7	2,131	76.2	2,338	82.8	-36.6%
35-44	5,781	219.3	3,808	146.3	3,272	126.0	2,214	85.1	2,062	79.2	-63.9%
45-54	10,366	397.0	7,614	291.7	6,050	231.3	4,525	172.8	3,892	148.8	-62.5%
55-64	6,915	363.5	6,008	305.1	5,403	264.3	4,938	235.1	4,297	199.3	-45.2%
65+	1,954	107.5	1,683	90.3	1,666	86.1	1,465	72.0	1,538	72.3	-32.8%
Not Specified	189	-	294	-	257	-	163	-	188	-	-
Gender Not Specified	1,919	-	1,423	-	1,358	-	986	-	895	-	-

BY RACE/ETHNICITY	California Chronic Hepatitis C									
	2009		2010		2011		2012		2013	
	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³
American Indian/Alaska Native	140	1.2%	120	1.4%	94	1.3%	78	1.4%	77	1.4%
Asian/Pacific Islander	410	3.6%	331	3.9%	284	4.1%	231	4.2%	222	5.1%
African American/Black	1,452	12.8%	1,114	13.2%	854	12.2%	746	13.6%	527	12.2%
Hispanic/Latino	3,551	31.3%	2,354	27.9%	1,890	27.0%	1,501	27.3%	968	22.4%
White	5,793	51.1%	4,530	53.6%	3,890	55.5%	2,946	53.5%	2,525	58.5%
Other/Multi/Not Specified	33,661	74.8%	27,469	76.5%	24,863	78.0%	20,475	78.8%	19,949	82.2%
	California Population									
	Number	Percent ³	Number	Percent ³	Number	Percent ³	Number	Percent ³	Number	Percent ³
American Indian/Alaska Native	168,737	0.5%	165,873	0.5%	167,574	0.5%	168,832	0.5%	170,322	0.5%
Asian/Pacific Islander	4,772,143	13.2%	4,953,540	13.6%	5,014,824	13.7%	5,082,518	13.7%	5,163,658	13.8%
African American/Black	2,205,579	6.1%	2,194,973	6.0%	2,209,159	6.0%	2,218,522	6.0%	2,225,711	6.0%
Hispanic/Latino	13,792,550	38.1%	14,073,138	38.6%	14,307,283	39.0%	14,538,267	39.2%	14,755,515	39.5%
White	15,251,448	42.1%	15,032,984	41.3%	15,031,272	40.9%	15,057,171	40.6%	15,052,696	40.3%
Other/Multi/Not Specified	886,748	2.4%	918,977	2.5%	945,893	2.5%	972,550	2.6%	998,641	2.6%

¹ Overall county rates were calculated using mid-year (July 1) California Department of Finance county population estimates for each year.

² Case counts include transgender chronic hepatitis C cases. Ten transgender chronic hepatitis C cases were newly reported from 2009-2013. Transgender cases are not reflected in totals for male cases, female cases or cases for which gender was unknown. Rates were not calculated for transgender persons because information on transgender identity was not consistently collected during 2009-2013.

³ Percent calculations for race/ethnicity exclude individuals for whom age or race/ethnicity was "Not Specified" from the denominator. Caution should be used when interpreting percentages by race/ethnicity, since race/ethnicity information was not reported for the majority of chronic viral hepatitis cases during 2009-2013.

⁴ Positive percent changes in rates of newly reported chronic hepatitis C from 2009-2013 are highlighted red.

Notes: • Rates are per 100,000 population.

• Dash (-) indicates when a rate or percentage was not calculated. Rates by race/ethnicity were not calculated since race/ethnicity was not known for the majority of cases.

• These data do NOT measure prevalence or incidence of chronic viral hepatitis infections in California due to the asymptomatic nature of chronic hepatitis C infections, varied levels of completeness of surveillance reporting, and because it remains unknown how many of the cases described in this report are currently living.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention

Chronic Hepatitis C - Cases and Rates of Newly Reported Non-Incarcerated Cases by Local Health Jurisdiction and Incarcerated Cases in State Prisons, California, 2009-2013

Local Health Jurisdiction (LHJ)	2009		2011		2013		Change in rate from 2009 to 2013	Rank in 2013
	N	Rate	N	Rate	N	Rate		
CALIFORNIA	45,007	121.4	31,875	84.6	24,268	63.3	-47.9%	-
State Prisons	8,237	5369.8	5,223	3522.1	3,101	2519.2	-53.1%	-
Alameda	1,846	122.8	1,247	81.4	1,043	66.2	-46.0%	32
— Berkeley *	137	122.9	109	94.8	95	80.8	-34.3%	18
Alpine	0	-	0	-	0	-	-	-
Amador	34	99.6	25	72.8	18	51.9	-47.9%	43
Butte	226	103.1	200	90.6	176	79.2	-23.1%	19
Calaveras	44	96.6	40	88.1	31	68.7	-28.8%	29
Colusa	6	28.2	3	-	7	31.9	12.9%	59
Contra Costa	514	49.3	475	44.7	500	45.9	-6.8%	48
Del Norte	107	422.9	54	215.5	21	85.1	-79.9%	15
El Dorado	159	88.5	85	47.0	111	60.9	-31.2%	33
Fresno	1,031	112.2	511	54.5	406	42.5	-62.1%	52
Glenn	13	46.3	14	49.3	22	76.7	65.5%	21
Humboldt	250	186.9	208	153.9	247	183.4	-1.8%	1
Imperial	241	146.5	176	104.1	118	68.0	-53.6%	31
Inyo	13	70.5	2	-	16	86.1	22.2%	13
Kern	1,151	142.1	689	83.2	649	76.4	-46.2%	23
Kings	116	87.1	73	54.4	68	50.2	-42.4%	45
Lake	66	102.5	75	116.1	55	85.2	-16.9%	14
Lassen	17	68.3	9	36.2	30	124.2	81.8%	5
Los Angeles	10,122	103.3	8,360	84.5	5,451	54.2	-47.5%	40
— Long Beach *	306	66.2	206	44.2	326	69.1	4.3%	28
— Pasadena *	82	60.0	71	50.9	78	55.2	-8.1%	39
Madera	117	82.2	241	167.1	85	58.5	-28.8%	34
Marin	135	54.9	119	47.7	143	56.3	2.7%	38
Mariposa	20	109.4	24	131.6	14	77.1	-29.5%	20
Mendocino	157	179.3	117	134.0	122	138.5	-22.8%	3
Merced	118	46.4	121	46.6	127	48.0	3.3%	46
Modoc	5	-	7	72.3	11	114.5	-	6
Mono	7	49.7	1	-	7	50.3	1.2%	44
Monterey	351	87.0	248	60.7	239	57.3	-34.1%	37
Napa	118	87.0	94	68.4	98	70.3	-19.2%	26
Nevada	142	144.3	81	82.3	79	80.9	-43.9%	17
Orange	1,324	44.2	953	31.2	1,076	34.6	-21.7%	58
Placer	182	52.9	187	52.6	144	39.5	-25.3%	55
Plumas	13	64.8	18	90.3	25	126.5	95.2%	4
Riverside	1,336	62.3	1,055	47.7	1,036	45.7	-26.6%	49
Sacramento	1,462	104.1	1,616	113.2	1,478	101.9	-2.1%	8
San Benito	30	54.5	29	51.9	33	58.1	6.8%	35
San Bernardino	2,232	110.7	1,000	48.6	1,111	53.3	-51.9%	41
San Diego	2,607	84.8	1,791	57.2	1,158	36.1	-57.4%	57
San Francisco	2,040	254.4	1,406	171.6	933	110.8	-56.5%	7
San Joaquin	482	71.2	376	54.5	291	41.4	-41.9%	54
San Luis Obispo	216	82.5	261	99.0	187	69.8	-15.4%	27
San Mateo	1,292	180.4	394	54.1	350	46.8	-74.0%	47
Santa Barbara	386	91.4	277	65.1	252	57.9	-36.7%	36
Santa Clara	2,296	129.4	1,315	72.6	844	45.3	-65.0%	50
Santa Cruz	326	124.5	222	83.7	202	74.6	-40.0%	24
Shasta	310	175.3	223	125.5	180	100.7	-42.5%	10
Sierra	4	-	1	-	5	-	-	-
Siskiyou	64	142.4	72	160.7	77	172.4	21.1%	2
Solano	352	86.9	207	50.9	151	36.4	-58.1%	56
Sonoma	406	84.5	266	54.6	417	84.3	-0.2%	16
Stanislaus	450	87.9	386	74.4	362	68.6	-21.9%	30
Sutter	108	114.4	78	81.7	87	90.1	-21.3%	12
Tehama	95	150.5	90	141.5	58	91.0	-39.5%	11
Trinity	18	130.7	11	80.1	10	73.2	-44.0%	25
Tulare	399	91.0	221	49.4	205	44.9	-50.6%	51
Tuolumne	46	92.4	30	60.1	51	101.8	10.2%	9
Ventura	538	65.7	525	63.1	351	41.6	-36.6%	53
Yolo	174	87.1	127	62.6	110	52.8	-39.4%	42
Yuba	126	175.5	95	130.1	57	76.7	-56.3%	22

* City Health Department numbers are included in their respective county totals.

- Notes:
- Rates are per 100,000 population.
 - State prison cases were removed from local health jurisdiction totals to be included as a separate category. Rates for state prisons were calculated using the total state prison population.
 - Dash (-) indicates the rate was not calculated because the local health jurisdiction reported five or fewer cases.
 - Positive percent changes in rates of newly reported chronic hepatitis C from 2009-2013 are highlighted red. Caution should be used when interpreting county-specific rates of newly reported cases for counties of population size fewer than 100,000; rates fluctuate widely due to their small population size.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention

Chronic Hepatitis C - Cases and Rates of Newly Reported Cases in State Prisons, California, 1994–2013*

Year	N	Rate
1994	1	0.8
1995	32	24.1
1996	124	86.9
1997	721	467.3
1998	1,716	1,071.1
1999	2,930	1,787.4
2000	3,407	2,079.4
2001	4,162	2,548.1
2002	3,547	2,220.9
2003	2,726	1,674.5
2004	2,943	1,778.6
2005	2,718	1,637.6
2006	3,641	2,085.5
2007	8,114	4,632.4
2008	7,439	4,401.5
2009	8,237	5,080.8
2010	5,170	3,252.8
2011	5,223	3,378.7
2012	3,025	2,377.4
2013	3,101	2,475.0

* Cases with a report date of December 31, 2013 or earlier, and reported to California Department of Public Health as of June 30, 2014.

Notes: • Rates are per 100,000 population.

• A total of 68,977 *confirmed* chronic hepatitis C infections in state prisons were reported from 1994-2013. This does not represent the total number of people in California state prisons living with chronic hepatitis C. Additional analysis is needed to determine how many reported chronic hepatitis C cases are currently living and are currently incarcerated.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention

Chronic Hepatitis C - Cases and Rates of Newly Reported Cases in State Prisons by Gender and Age, and by Race, California, 2009 - 2013

TOTAL	Prison Chronic Hepatitis C										Change in Rate from 2009 to 2013 ⁴
	2009		2010		2011		2012		2013		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
	8,237	5,369.8	5,170	3,424.6	5,223	3,522.1	3,025	2,418.7	3,101	2,519.2	-53.1%

BY GENDER & AGE	Prison Chronic Hepatitis C										Change in Rate from 2009 to 2013 ⁴
	2009		2010		2011		2012		2013		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
Female Total	604	5,843.1	327	3,421.6	282	3,077.6	140	2,213.4	140	2,396.4	-59.0%
Ages <18	0	—	0	—	0	—	0	—	0	—	—
18-24	31	2,698.0	14	1,360.5	20	2,107.5	17	2,635.7	16	2,454.0	-9.0%
25-34	134	4,039.8	82	2,585.9	60	1,976.9	30	1,418.4	42	2,137.4	-47.1%
35-44	205	6,608.6	98	3,695.3	90	3,501.9	40	2,484.5	29	1,990.4	-69.9%
45-54	192	8,751.1	117	5,574.1	89	4,438.9	38	2,716.2	37	2,988.7	-65.8%
55-64	38	7,966.5	16	3,180.9	20	3,992.0	14	3,160.3	12	2,870.8	-64.0%
65+	4	4,081.6	0	0.0	3	2,912.6	1	885.0	1	892.9	-78.1%
Not Specified	0	—	0	—	0	—	0	—	3	—	—
Male Total	7,621	5,327.2	4,833	3,417.8	4,938	3,549.2	2,882	2,427.1	2,955	2,520.2	-52.7%
Ages <18	—	—	—	—	—	—	0	0.0	—	—	—
18-24	377	2,024.4	342	1,896.3	448	2,539.3	291	1,989.7	372	2,555.1	26.2%
25-34	1,880	4,183.5	1,330	3,035.0	1,499	3,523.7	1,005	2,898.1	1,082	3,139.5	-25.0%
35-44	2,243	5,740.7	1,198	3,175.3	1,244	3,444.8	664	2,183.1	692	2,334.4	-59.3%
45-54	2,318	7,864.8	1,345	4,528.9	1,221	4,112.4	614	2,368.1	530	2,133.6	-72.9%
55-64	671	7,660.7	435	4,500.3	393	3,763.6	257	2,513.4	220	2,065.7	-73.0%
65+	84	3,830.4	58	2,360.6	65	2,408.3	36	1,254.8	44	1,422.1	-62.9%
Not Specified	—	—	—	—	—	—	15	—	—	—	—
Gender Not Specified	11	—	10	—	3	—	3	—	6	—	—

BY RACE/ETHNICITY	Prison Chronic Hepatitis C									
	2009		2010		2011		2012		2013	
	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³
American Indian/Alaska Native	21	0.9%	12	0.9%	9	0.8%	12	1.7%	6	1.2%
Asian/Pacific Islander	18	0.8%	7	0.5%	9	0.8%	6	0.9%	5	1.0%
African American/Black	254	11.0%	117	9.0%	118	10.2%	61	8.9%	48	9.9%
Hispanic/Latino	1,095	47.3%	621	47.7%	540	46.6%	333	48.4%	239	49.2%
White	926	40.0%	546	41.9%	483	41.7%	276	40.1%	188	38.7%
Other/Multi/Not Specified	5,923	71.9%	3,867	74.8%	4,064	77.8%	2,337	77.3%	2,615	84.3%
	Prison Population									
	Number	Percent ⁴	Number	Percent ⁴	Number	Percent ⁴	Number	Percent ⁴	Number	Percent ⁴
American Indian/Alaska Native	1,410	1.0%	1,460	1.0%	1,400	1.0%	1,138	0.9%	1,118	0.9%
Asian/Pacific Islander	1,514	1.0%	1,543	1.1%	1,572	1.1%	1,363	1.1%	1,291	1.1%
African American/Black	45,511	30.8%	44,863	30.9%	43,335	30.4%	37,614	31.3%	36,628	31.0%
Hispanic/Latino	58,809	39.8%	58,276	40.1%	58,160	40.8%	49,991	41.6%	49,949	42.3%
White	40,533	27.4%	39,165	27.0%	38,237	26.8%	30,029	25.0%	29,162	24.7%
Other/Multi/Not Specified	5,619	3.7%	5,658	3.7%	5,588	3.8%	4,931	3.9%	4,946	4.0%

¹ Rates of newly reported chronic hepatitis C cases among persons incarcerated in state prisons were calculated using data published by the California Department of Corrections and Rehabilitation (CDCR) in September 2013. At the time of this report, prison census data stratified by specific demographic groups (e.g., age, gender, race, and prison facility) from CDCR were only available for persons incarcerated in state prison institutions and camps. Thus data stratified by demographic group are provisional. These data do not include cases reported in local jails, federal prisons, or immigration detention centers. In addition, state prison census data use different age and race/ethnicity classifications than the California Department of Finance.

² Case counts include transgender chronic hepatitis C cases. One transgender chronic hepatitis C case was newly reported in 2009 across the entire California state prison system, and no other transgender chronic hepatitis C cases were newly reported from 2010-2013. This is likely an underestimate of the true number of cases among transgender individuals because information on transgender identity was not consistently collected from 2009-2013.

³ Percent calculations for race/ethnicity exclude individuals for whom age or race/ethnicity was "Not Specified" from the denominator. Caution should be used when interpreting percentages by race/ethnicity, since race/ethnicity information was not reported for the majority of chronic viral hepatitis cases during 2009-2013.

⁴ Positive percent changes in rates of newly reported chronic hepatitis C from 2009-2013 are highlighted red.

Notes: • Rates are per 100,000 population.

• Dash (—) indicates when a rate or percentage was not calculated. Rates by race/ethnicity were not calculated since race/ethnicity was not known for the majority of cases.

• These data do NOT measure prevalence or incidence of chronic viral hepatitis infections in California state prisons due to the asymptomatic nature of chronic hepatitis C infections, varied testing practices, and because it remains unknown how many of the cases described in this report are currently living and incarcerated in a state prison.

Source: California Department of Public Health, Sexually Transmitted Diseases (STD) Control Branch, Office of Viral Hepatitis Prevention