
Chronic Hepatitis C, California, 2015

❖ Chronic Hepatitis C in California

- Cases and Rates of Newly Reported Cases (including Cases in State Prisons), 1994-2015
- Cases and Rates of Newly Reported Cases by Gender and Age, and by Race, 2011-2015
- Cases and Rates of Newly Reported Non-Incarcerated Cases by Local Health Jurisdiction and Incarcerated Cases in State Prisons, 2011-2015

❖ Chronic Hepatitis C in California State Prisons

- Cases and Rates of Newly Reported Cases in State Prisons, 1994-2015
- Cases and Rates of Newly Reported Cases by Gender and Age, and by Race, 2011-2015

Chronic Hepatitis C - Cases and Rates of Newly Reported Cases*, California, 1994–2015**

Year	N	Rate
1994	1,134	3.6
1995	3,824	12.1
1996	5,302	16.6
1997	10,957	33.8
1998	17,182	52.3
1999	33,593	100.5
2000	37,495	110.3
2001	36,206	104.9
2002	32,383	92.7
2003	28,508	80.6
2004	31,972	89.4
2005	22,519	62.6
2006	28,039	77.4
2007	41,584	113.8
2008	47,578	129.1
2009	40,816	110.1
2010	34,787	93.2
2011	30,860	81.9
2012	23,415	61.6
2013	23,062	60.1
2014	32,897	84.9
2015	33,748	86.4

* Including cases in state prisons.

** Cases with a report date of December 31, 2015 or earlier, and reported to California Department of Public Health as of June 30, 2016.

Notes: • Rates are per 100,000 population.

• A total of 597,861 *confirmed* chronic hepatitis C infections were reported from 1994-2015. 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, 2011-2015

TOTAL	California Chronic Hepatitis C										Change in Rate from 2011 to 2015 ⁴
	2011		2012		2013		2014		2015		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
	30,860	81.9	23,415	61.6	23,062	60.1	32,897	84.9	33,748	86.4	5.5%

BY GENDER & AGE	California Chronic Hepatitis C										Change in Rate from 2011 to 2015 ⁴
	2011		2012		2013		2014		2015		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
Female Total	10,237	54.1	7,917	41.4	7,804	40.5	11,347	58.3	11,632	59.3	9.6%
Ages 0-14	72	1.9	41	1.1	44	1.2	70	1.9	55	1.5	-23.7%
15-19	136	10.0	116	8.7	107	8.1	129	9.9	132	10.2	2.0%
20-29	897	33.5	743	27.6	819	30.2	1,177	43.2	1,297	47.4	41.7%
30-39	1,098	43.0	817	31.7	858	33.0	1,211	46.0	1,316	49.6	15.3%
40-49	2,147	81.4	1,473	56.0	1,242	47.5	1,656	63.8	1,497	57.8	-29.0%
50-59	3,503	140.4	2,672	105.0	2,597	100.7	3,627	138.9	3,554	135.4	-3.6%
60+	2,340	66.9	2,025	55.9	2,112	56.3	3,438	88.5	3,747	93.2	39.3%
Not Specified	44	-	30	-	25	-	39	-	34	-	-
Male Total	20,399	108.8	15,405	81.4	15,178	79.5	21,425	111.2	21,956	113.0	3.8%
Ages 0-14	62	1.6	65	1.7	56	1.4	78	2.0	67	1.7	8.1%
15-19	136	9.5	97	6.9	109	7.8	144	10.5	158	11.7	23.3%
20-29	1,988	68.7	1,503	51.6	1,893	64.6	2,686	91.2	3,135	106.4	54.8%
30-39	2,630	100.7	2,031	76.9	2,184	81.5	2,934	108.0	3,040	110.6	9.9%
40-49	4,560	172.0	2,956	111.8	2,624	100.0	3,557	136.4	3,301	127.1	-26.1%
50-59	6,879	285.8	5,285	214.9	4,744	189.7	6,354	250.6	6,136	240.0	-16.0%
60+	3,951	138.0	3,354	112.5	3,399	109.7	5,576	173.0	6,017	179.5	30.1%
Not Specified	193	-	114	-	169	-	96	-	102	-	-
Gender Not Specified	216	-	83	-	68	-	114	-	158	-	-

BY RACE/ETHNICITY	California Chronic Hepatitis C									
	2011		2012		2013		2014		2015	
	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³
American Indian/Alaska Native	149	1.5%	110	1.5%	128	1.8%	133	1.5%	114	1.2%
Asian/Pacific Islander	326	3.3%	264	3.6%	266	3.8%	349	3.9%	292	3.1%
African American/Black	1,242	12.5%	969	13.0%	818	11.7%	1,036	11.5%	1,117	11.9%
Hispanic/Latino	2,954	29.7%	2,290	30.8%	2,200	31.5%	2,543	28.3%	2,231	23.8%
White	5,277	53.0%	3,796	51.1%	3,575	51.2%	4,916	54.8%	5,616	59.9%
Other/Multi/Not Specified	20,912	67.8%	15,986	68.3%	16,075	69.7%	23,920	72.7%	24,378	72.2%
	California Population									
	Number	Percent ³	Number	Percent ³	Number	Percent ³	Number	Percent ³	Number	Percent ³
American Indian/Alaska Native	167,578	0.5%	168,864	0.5%	170,372	0.5%	171,822	0.5%	172,725	0.5%
Asian/Pacific Islander	5,015,009	13.7%	5,083,548	13.7%	5,165,076	13.8%	5,256,276	13.9%	5,338,931	14.0%
African American/Black	2,209,152	6.0%	2,218,721	6.0%	2,226,138	6.0%	2,238,223	5.9%	2,247,092	5.9%
Hispanic/Latino	14,306,854	39.0%	14,538,898	39.2%	14,757,349	39.5%	15,002,799	39.8%	15,225,980	40.1%
White	15,030,482	40.9%	15,058,766	40.6%	15,055,630	40.3%	15,048,059	39.9%	15,029,107	39.5%
Other/Multi/Not Specified	945,878	2.5%	972,693	2.6%	998,869	2.6%	1,022,230	2.6%	1,045,975	2.7%

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

² Case counts for California include transgender chronic hepatitis C cases. In California, 43 transgender chronic hepatitis C cases were newly reported from 2011-2015. 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 2011-2015.

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 2011-2015.

⁴ Positive percent changes in rates of newly reported chronic hepatitis C from 2011-2015 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, 2011-2015

Local Health Jurisdiction (LHJ)	2011		2013		2015		Change in rate from 2011-2015	Rank in 2015
	N	Rate	N	Rate	N	Rate		
CALIFORNIA	30,860	81.9	23,062	60.1	33,748	86.4	5.5%	-
State Prisons	4,168	2774.9	3,147	2524.4	3,060	2631.2	-5.2%	-
Alameda	1,139	74.4	903	57.3	1,181	72.9	-1.9%	39
— Berkeley *	67	58.3	80	68.5	136	113.7	95.0%	14
Alpine	0	-	0	-	0	-	-	-
Amador	27	78.7	14	40.4	28	81.2	3.2%	31
Butte	205	92.9	182	81.9	178	79.3	-14.6%	33
Calaveras	40	88.1	29	64.3	33	73.5	-16.6%	37
Colusa	1	-	8	36.4	11	49.4	-	56
Contra Costa	461	43.3	514	47.2	575	51.5	18.8%	54
Del Norte	52	184.3	19	69.0	42	172.3	-6.5%	3
El Dorado	81	44.8	110	60.3	139	75.9	69.4%	35
Fresno	507	54.1	408	42.7	570	58.3	7.9%	49
Glenn	14	49.3	17	59.3	15	51.8	5.0%	53
Humboldt	219	161.8	254	188.3	325	240.6	48.7%	1
Imperial	173	102.2	90	51.8	148	83.1	-18.6%	30
Inyo	2	-	16	86.1	15	80.5	-	32
Kern	676	81.6	635	74.7	833	96.4	18.1%	21
Kings	83	61.9	65	47.9	78	57.0	-7.9%	51
Lake	69	106.6	51	78.7	90	138.1	29.6%	9
Lassen	8	32.3	29	120.2	44	186.8	478.2%	2
Los Angeles	8,663	87.6	4,883	48.6	9,360	91.9	5.0%	24
— Long Beach *	166	35.6	312	65.2	465	96.2	170.3%	22
— Pasadena *	51	36.6	76	54.4	118	84.2	130.1%	28
Madera	90	62.4	82	56.4	90	60.6	-2.8%	47
Marin	87	34.9	141	55.5	275	106.4	205.3%	17
Mariposa	20	109.7	13	71.6	28	154.8	41.2%	7
Mendocino	122	139.9	124	140.8	106	119.9	-14.3%	12
Merced	123	47.3	130	49.1	165	61.2	29.3%	46
Modoc	7	72.3	12	125.0	15	157.8	118.3%	6
Mono	1	-	7	50.4	12	86.8	-	26
Monterey	254	62.1	242	57.9	244	57.1	-8.1%	50
Napa	99	72.1	101	72.5	130	91.8	27.3%	25
Nevada	85	86.4	74	75.7	72	73.3	-15.1%	38
Orange	613	20.1	754	24.2	1,914	60.5	201.2%	48
Placer	185	52.0	146	40.1	228	61.5	18.2%	45
Plumas	15	75.3	24	121.4	24	122.5	62.8%	11
Riverside	1,017	45.9	997	44.0	1,290	55.6	21.1%	52
Sacramento	1,842	129.1	1,493	102.9	1,574	106.0	-17.9%	18
San Benito	28	50.1	35	61.7	18	31.3	-37.6%	59
San Bernardino	1,200	58.3	1,123	53.8	1,312	61.7	5.9%	43
San Diego	1,975	63.1	1,049	32.7	2,018	61.7	-2.2%	44
San Francisco	1,373	167.5	948	112.4	1,091	126.4	-24.5%	10
San Joaquin	370	53.6	275	39.1	545	75.1	40.2%	36
San Luis Obispo	274	103.8	187	69.7	186	68.2	-34.4%	41
San Mateo	380	52.1	358	47.8	1,306	170.9	227.9%	4
Santa Barbara	271	63.7	252	57.9	344	77.3	21.4%	34
Santa Clara	1,351	74.5	870	46.6	944	49.3	-33.8%	57
Santa Cruz	226	85.2	204	75.4	297	108.1	26.9%	15
Shasta	216	121.7	170	95.1	187	104.6	-14.1%	19
Sierra	1	-	6	188.3	2	-	-	-
Siskiyou	72	160.7	78	174.7	73	164.0	2.1%	5
Solano	187	46.0	67	16.2	452	106.8	132.3%	16
Sonoma	150	30.8	395	79.9	463	92.4	199.8%	23
Stanislaus	387	74.6	364	69.0	392	72.8	-2.4%	40
Sutter	82	85.9	87	90.1	82	84.0	-2.2%	29
Tehama	94	147.7	60	94.1	41	64.1	-56.6%	42
Trinity	11	80.1	10	73.2	20	147.5	84.1%	8
Tulare	193	43.1	212	46.5	229	49.4	14.6%	55
Tuolumne	32	64.1	48	95.9	58	115.6	80.4%	13
Ventura	485	58.3	341	40.5	399	46.8	-19.7%	58
Yolo	124	61.1	116	55.7	184	86.5	41.6%	27
Yuba	97	132.8	58	78.0	79	104.5	-21.3%	20

* 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 2011-2015 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, 1994–2015*

Year	N	Rate
1994	1	0.8
1995	32	25.3
1996	124	91.0
1997	721	487.6
1998	1,716	1,130.0
1999	2,928	1,883.0
2000	3,405	2,196.1
2001	4,150	2,686.6
2002	3,537	2,322.1
2003	2,720	1,759.8
2004	2,942	1,853.0
2005	2,714	1,700.5
2006	3,633	2,168.7
2007	5,972	3,580.2
2008	7,746	4,802.0
2009	6,336	4,071.9
2010	5,387	3,519.0
2011	4,168	2,774.9
2012	2,715	2,146.3
2013	3,147	2,524.4
2014	3,384	2,778.1
2015	3,060	2,631.2

* Cases with a report date of December 31, 2015 or earlier, and reported to California Department of Public Health as of June 30, 2016.

Notes: • Rates are per 100,000 population.

• A total of 70,538 *confirmed* chronic hepatitis C infections in state prisons were reported from 1994-2015. 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, 2011-2015

TOTAL	Prison Chronic Hepatitis C										Change in Rate from 2011 to 2015 ⁴
	2011		2012		2013		2014		2015		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
	4,168	2,774.9	2,715	2,146.3	3,147	2,524.4	3,384	2,778.1	3,060	2,631.2	-5.2%

BY GENDER & AGE	Prison Chronic Hepatitis C										Change in Rate from 2011 to 2015 ⁴
	2011		2012		2013		2014		2015		
	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	Cases ²	Rate ¹	
Female Total	396	4,194.9	132	2,046.8	132	2,209.2	97	1,556.2	89	1,630.9	-61.1%
Ages 0-14	0	-	0	-	0	-	0	-	0	-	-
15-19	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	-
20-29	72	2,949.6	23	1,388.1	40	2,495.3	37	2,137.5	13	866.1	-70.6%
30-39	95	3,232.4	36	1,847.1	29	1,606.6	25	1,307.5	38	2,139.6	-33.8%
40-49	152	5,981.9	45	2,740.6	35	2,496.4	23	1,680.1	20	1,814.9	-69.7%
50-59	68	5,661.9	25	2,750.3	23	2,715.5	11	1,241.5	14	1,818.2	-67.9%
60+	8	3,125.0	3	1,158.3	3	1,149.4	1	352.1	4	1,433.7	-54.1%
Not Specified	1	-	0	-	2	-	0	-	0	-	-
Male Total	3,769	2,677.6	2,581	2,150.0	3,010	2,536.1	3,284	2,841.4	2,970	2,679.6	0.1%
Ages 0-14	0	-	0	-	0	-	0	-	0	-	-
15-19	25	1,376.7	9	611.4	23	1,795.5	25	2,120.4	24	2,395.2	74.0%
20-29	850	2,294.8	653	2,182.8	860	2,853.8	1,131	3,876.5	1,065	3,796.8	65.5%
30-39	990	2,438.7	782	2,285.1	980	2,897.2	996	3,028.1	928	2,932.8	20.3%
40-49	1,054	3,003.2	562	1,911.9	586	2,108.8	579	2,194.1	500	2,050.0	-31.7%
50-59	645	3,234.9	467	2,505.0	442	2,342.7	435	2,326.3	329	1,819.0	-43.8%
60+	158	2,517.5	94	1,468.3	105	1,546.4	108	1,491.1	122	1,591.2	-36.8%
Not Specified	47	-	14	-	14	-	10	-	2	-	-
Gender Not Specified	0	-	2	-	0	-	1	-	1	-	-

BY RACE/ETHNICITY	Prison Chronic Hepatitis C									
	2011		2012		2013		2014		2015	
	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³	Cases	Percent ³
American Indian/Alaska Native	50	1.5%	37	1.6%	48	1.8%	47	1.6%	41	1.6%
Asian/Pacific Islander	11	0.3%	20	0.9%	18	0.7%	11	0.4%	15	0.6%
African American/Black	380	11.3%	234	10.1%	247	9.3%	225	7.9%	185	7.4%
Hispanic/Latino	1,477	44.1%	1,105	47.8%	1,396	52.6%	1,516	53.0%	1,347	53.5%
White	1,434	42.8%	917	39.6%	946	35.6%	1,064	37.2%	929	36.9%
Other/Multi/Not Specified	816	19.6%	402	14.8%	492	15.6%	521	15.4%	543	17.7%
	Prison Population									
	Number	Percent ⁴	Number	Percent ⁴	Number	Percent ⁴	Number	Percent ⁴	Number	Percent ⁴
American Indian/Alaska Native	1,441	1.0%	1,169	1.0%	1,135	0.9%	1,358	1.2%	1,278	1.2%
Asian/Pacific Islander	1,544	1.1%	1,327	1.1%	1,246	1.0%	1,203	1.0%	1,310	1.2%
African American/Black	43,872	30.4%	38,028	31.3%	37,074	31.0%	35,793	31.0%	34,011	30.8%
Hispanic/Latino	58,872	40.7%	50,558	41.6%	50,569	42.3%	48,541	42.1%	47,282	42.8%
White	38,810	26.9%	30,412	25.0%	29,621	24.8%	28,461	24.7%	26,489	24.0%
Other/Multi/Not Specified	5,664	3.8%	5,004	4.0%	5,017	4.0%	6,455	5.3%	5,925	5.1%

¹ Rates of newly reported chronic hepatitis C cases among persons incarcerated in state prisons were calculated using data from the California Department of Corrections and Rehabilitation (CDCR). Prison census data are stratified by specific demographic groups (e.g., age, gender and race) from CDCR and include persons incarcerated in state prison institutions, camps, and state hospitals. These data do not include cases reported in local jails, federal prisons, or immigration detention centers.

² Case counts for the entire California state prison system include transgender chronic hepatitis C cases. Ten transgender chronic hepatitis C cases were newly reported from 2011-2015. This is likely an underestimate of the true number of cases among transgender individuals because information on transgender identity was not consistently collected from 2011-2015.

³ Percent calculations for race/ethnicity exclude individuals for whom age or race/ethnicity was "Not Specified" from the denominator. Although race/ethnicity information was available for nearly 80 percent of chronic hepatitis C cases during 2011-2015, percentages are shown instead of rates due to small population sizes and to enable comparisons with statewide percentages.

⁴ Positive percent changes in rates of newly reported chronic hepatitis C from 2011-2015 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