State of California—Health and Human Services Agency

California Department of Public Health

Ron Chapman, MD, MPH
Director

EDMUND G.BROWN JR
Governor

Malaria
Yearly Summary Report

2001 - 2010

Center for Infectious Diseases
Division of Communicable Disease Control
Infectious Diseases Branch
Surveillance and Statistics Section

Malaria, Cases and Rates by Health Jurisdiction, California, 2001 to 2005

JURISDICTION	YEAR OF ESTIMATED ONSET									
	2001		2002		2003		2004		2005	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
CALIFORNIA TOTAL	178	0.5	177	0.5	170	0.5	159	0.4	168	0.5
ALAMEDA COUNTY TOTAL	15	1.0	27	1.8	15	1.0	10	0.7	19	1.3
ALAMEDA	14	1.0	23	1.7	14	1.0	10	0.7	18	1.3
BERKELEY	1	1.0	4	3.8	1	1.0	-	-	1	1.0
ALPINE	-	-	-	-	-	-	-	-	-	-
AMADOR	-	-	-	-	-	-	-	-	-	-
BUTTE	-	-	-	-	-	-	1	0.5	1	0.5
CALAVERAS	-	-	1	2.4	1	2.3	-	-	-	-
COLUSA	-	-	-	-	-	-	-	-	-	-
CONTRA COSTA	6	0.6	5	0.5	5	0.5	5	0.5	6	0.6
DEL NORTE	-	-	-	-	-	-	-	-	-	-
EL DORADO	-	-	-	-	-	-	-	-	1	0.6
FRESNO	2	0.2	-	-	3	0.3	4	0.5	1	0.1
GLENN	-	-	-	-	-	-	1	3.6	-	-
HUMBOLDT	1	0.8	-	-	1	0.8	-	-	1	0.8
IMPERIAL	-	-	-	-	-	-	1	0.6	3	1.8
INYO	-	-	-	-	-	-	-	-	-	-
KERN	1	0.1	2	0.3	1	0.1	1	0.1	1	0.1
KINGS	-	-	-	-	-	-	-	-	1	0.7
LAKE	-	-	-	-	-	-	-	-	-	-
LASSEN	-	-	-	-	-	-	-	-	-	-
LOS ANGELES COUNTY TOTAL	47	0.5	40	0.4	60	0.6	56	0.6	50	0.5
LOS ANGELES	47	0.5	38	0.4	59	0.6	54	0.6	46	0.5
LONG BEACH	-	-	1	0.2	1	0.2	2	0.4	4	0.8
PASADENA	-	-	1	0.7	-	-	-	-	-	-
MADERA	-	-	-	-	-	-	-	-	-	-
MARIN	2	0.8	2	0.8	2	0.8	1	0.4	1	0.4
MARIPOSA	-	-	-	-	-	-	-	-	-	-
MENDOCINO	2	2.3	-	-	2	2.2	-	-	-	-
MERCED	-	-	2	0.9	-	-	-	-	1	0.4
MODOC	-	-	-	-	-	-	-	-	-	-
MONO	-	-	-	-	-	-	-	-	1	7.2
MONTEREY	-	-	1	0.2	-	-	-	-	2	0.5
NAPA	1	0.8	-	-	-	-	-	-	1	0.7
NEVADA	1	1.1	-	-	1	1.0	-	-	-	-
ORANGE	12	0.4	18	0.6	11	0.4	13	0.4	11	0.4
PLACER	1	0.4	-	-	-	-	2	0.7	-	-
PLUMAS	-	-	-	-	-	-	-	-	-	-
RIVERSIDE	5	0.3	3	0.2	2	0.1	6	0.3	2	0.1
SACRAMENTO	10	0.8	8	0.6	6	0.5	5	0.4	6	0.4
SAN BENITO	-	-	-	-	-	-	-	-	-	-
SAN BERNARDINO	5	0.3	12	0.7	11	0.6	4	0.2	9	0.5
SAN DIEGO	12	0.4	8	0.3	6	0.2	7	0.2	12	0.4
SAN FRANCISCO	11	1.4	9	1.1	6	0.8	11	1.4	6	0.8
SAN JOAQUIN	2	0.3	3	0.5	-	-	-	-	3	0.5
SAN LUIS OBISPO	1	0.4	-	-	-	-	-	-	1	0.4
SAN MATEO	6	0.8	3	0.4	4	0.6	1	0.1	3	0.4
SANTA BARBARA	2	0.5	3	0.7	-	-	1	0.2	1	0.2
SANTA CLARA	20	1.2	24	1.4	27	1.6	21	1.2	19	1.1
SANTA CRUZ	-	-	-	-	1	0.4	1	0.4	1	0.4
SHASTA	4	2.4	-	-	-	-	-	-	-	-
SIERRA	-	-	-	-	-	-	-	-	-	-
SISKIYOU	-	-	-	-	-	-	-	-	-	-
SOLANO	-	-	-	-	1	0.2	2	0.5	-	-
SONOMA	3	0.6	-	-	1	0.2	-	-	1	0.2
STANISLAUS	1	0.2	1	0.2	-	-	1	0.2	-	-
SUTTER	-	-	-	-	1	1.2	-	-	-	-
TEHAMA	-	-	-	-	1	1.7	1	1.7	-	-
TRINITY	-	-	-	-	-	-	-	-	-	-
TULARE	1	0.3	-	-	-	-	-	-	-	-
TUOLUMNE	-	-	1	1.8	-	-	-	-	-	-
VENTURA	2	0.3	2	0.3	1	0.1	1	0.1	1	0.1
YOLO	2	1.1	2	1.1	-	-	2	1.1	2	1.1
YUBA	-	-	-	-	-	-	-	-	-	-

Rates are expressed as cases per 100,000 population.

Source: California Department of Public Health, Infectious Diseases Branch, Surveillance and Statistics Section.
California Department of Finance: Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

Malaria, Cases and Rates by Health Jurisdiction, California, 2006 to 2010

JURISDICTION	YEAR OF ESTIMATED ONSET									
	2006		2007		2008		2009		2010	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
CALIFORNIA TOTAL	146	0.4	135	0.4	126	0.3	127	0.3	123	0.3
ALAMEDA COUNTY TOTAL	12	0.8	21	1.4	16	1.0	12	0.8	14	0.9
ALAMEDA	11	0.8	21	1.5	16	1.1	12	0.8	13	0.9
BERKELEY	1	0.9	-	-	-	-	-	-	1	0.9
ALPINE	-	-	-	-	-	-	-	-	-	-
AMADOR	-	-	-	-	-	-	-	-	-	-
BUTTE	-	-	-	-	-	-	-	-	-	-
CALAVERAS	1	2.2	-	-	-	-	1	2.1	-	-
COLUSA	-	-	-	-	-	-	-	-	-	-
CONTRA COSTA	5	0.5	11	1.1	5	0.5	9	0.8	3	0.3
DEL NORTE	-	-	-	-	-	-	-	-	-	-
EL DORADO	1	0.6	-	-	-	-	-	-	-	-
FRESNO	2	0.2	5	0.5	2	0.2	3	0.3	1	0.1
GLENN	-	-	-	-	-	-	-	-	-	-
HUMBOLDT	1	0.8	1	0.8	-	-	-	-	-	-
IMPERIAL	-	-	-	-	-	-	-	-	-	-
INYO	-	-	-	-	-	-	-	-	-	-
KERN	1	0.1	2	0.2	2	0.2	1	0.1	2	0.2
KINGS	-	-	-	-	-	-	-	-	1	0.6
LAKE	-	-	-	-	-	-	-	-	-	-
LASSEN	-	-	-	-	-	-	-	-	-	-
LOS ANGELES COUNTY TOTAL	36	0.4	26	0.3	33	0.3	25	0.2	25	0.2
LOS ANGELES	33	0.3	26	0.3	30	0.3	24	0.2	25	0.3
LONG BEACH	1	0.2	-	-	3	0.6	-	-	-	-
PASADENA	2	1.4	-	-	-	-	1	0.7	-	-
MADERA	-	-	-	-	-	-	-	-	-	-
MARIN	2	0.8	-	-	3	1.2	-	-	3	1.2
MARIPOSA	-	-	-	-	-	-	-	-	-	-
MENDOCINO	-	-	2	2.2	1	1.1	1	1.1	1	1.1
MERCED	-	-	-	-	1	0.4	-	-	-	-
MODOC	-	-	-	-	-	-	-	-	-	-
MONO	-	-	-	-	-	-	-	-	-	-
MONTEREY	-	-	-	-	1	0.2	2	0.5	3	0.7
NAPA	3	2.2	-	-	-	-	-	-	1	0.7
NEVADA	-	-	-	-	-	-	1	1.0	1	1.0
ORANGE	8	0.3	6	0.2	5	0.2	6	0.2	3	0.1
PLACER	-	-	-	-	-	-	2	0.6	1	0.3
PLUMAS	-	-	-	-	-	-	-	-	-	-
RIVERSIDE	4	0.2	-	-	2	0.1	4	0.2	7	0.3
SACRAMENTO	4	0.3	4	0.3	4	0.3	4	0.3	3	0.2
SAN BENITO	-	-	-	-	-	-	-	-	-	-
SAN BERNARDINO	7	0.3	8	0.4	1	0.0	3	0.1	3	0.1
SAN DIEGO	16	0.5	7	0.2	10	0.3	15	0.5	7	0.2
SAN FRANCISCO	4	0.5	8	1.0	4	0.5	4	0.5	2	0.2
SAN JOAQUIN	4	0.6	4	0.6	2	0.3	2	0.3	3	0.4
SAN LUIS OBISPO	-	-	1	0.4	2	0.8	1	0.4	2	0.7
SAN MATEO	3	0.4	6	0.8	-	-	3	0.4	-	-
SANTA BARBARA	2	0.5	1	0.2	-	-	-	-	-	-
SANTA CLARA	20	1.1	14	0.8	19	1.0	21	1.2	28	1.5
SANTA CRUZ	1	0.4	1	0.4	3	1.1	1	0.4	3	1.1
SHASTA	2	1.1	-	-	-	-	-	-	-	-
SIERRA	-	-	-	-	-	-	-	-	-	-
SISKIYOU	-	-	-	-	1	2.1	-	-	-	-
SOLANO	-	-	2	0.5	1	0.2	-	-	-	-
SONOMA	3	0.6	3	0.6	-	-	1	0.2	-	-
STANISLAUS	2	0.4	-	-	2	0.4	1	0.2	2	0.4
SUTTER	-	-	-	-	3	3.1	2	2.0	-	-
TEHAMA	-	-	-	-	-	-	-	-	-	-
TRINITY	-	-	-	-	-	-	-	-	-	-
TULARE	-	-	1	0.2	-	-	-	-	2	0.4
TUOLUMNE	-	-	-	-	-	-	-	-	-	-
VENTURA	-	-	1	0.1	2	0.2	1	0.1	1	0.1
YOLO	2	1.0	-	-	-	-	1	0.5	-	-
YUBA	-	-	-	-	1	1.3	-	-	1	1.2

Rates are expressed as cases per 100,000 population.

Source: California Department of Public Health, Infectious Diseases Branch, Surveillance and Statistics Section.
California Department of Finance: Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

Malaria, Cases by Month, California, 2001 to 2005

MONTH OF ESTIMATED ONSET	YEAR OF ESTIMATED ONSET				
	2001	2002	2003	2004	2005
	CASES	CASES	CASES	CASES	CASES
TOTAL	178	177	170	159	168
JANUARY	12	16	18	13	17
FEBRUARY	16	4	14	11	13
MARCH	16	12	9	8	11
APRIL	18	19	9	14	12
MAY	15	13	14	15	14
JUNE	21	25	11	16	14
JULY	16	22	16	23	13
AUGUST	21	21	19	15	20
SEPTEMBER	7	14	21	13	9
OCTOBER	14	9	14	9	24
NOVEMBER	8	14	9	11	14
DECEMBER	14	8	16	11	7

Malaria, Cases and Rates by Age Group, California, 2001 to 2005

AGE GROUP	YEAR OF ESTIMATED ONSET									
	2001		2002		2003		2004		2005	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
TOTAL	178	0.5	177	0.5	170	0.5	159	0.4	168	0.5
0	1	0.2	-	-	-	-	1	0.2	1	0.2
01-04	3	0.1	3	0.1	-	-	2	0.1	6	0.3
05-14	10	0.2	9	0.2	13	0.2	15	0.3	8	0.1
15-24	43	0.9	38	0.8	35	0.7	19	0.4	31	0.6
25-34	33	0.6	52	1.0	30	0.6	41	0.8	32	0.6
35-44	38	0.7	24	0.4	39	0.7	29	0.5	34	0.6
45-54	30	0.7	31	0.7	20	0.4	24	0.5	30	0.6
55-64	9	0.3	10	0.3	21	0.7	18	0.5	9	0.3
65 +	7	0.2	7	0.2	9	0.2	10	0.3	12	0.3
UNKNOWN	4	-	3	-	3	-	-	-	5	-

Malaria, Cases and Rates by Race / Ethnicity, California, 2001 to 2005

RACE / ETHNICITY	YEAR OF ESTIMATED ONSET									
	2001		2002		2003		2004		2005	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
TOTAL	178	0.5	177	0.5	170	0.5	159	0.4	168	0.5
ASIAN/PACIFIC ISLANDER	12	0.3	22	0.5	21	0.5	19	0.4	20	0.4
BLACK, NOT HISPANIC	39	1.6	39	1.6	43	1.8	43	1.8	50	2.1
HISPANC	28	0.2	11	0.1	20	0.2	21	0.2	18	0.1
AMERICAN INDIAN/ALASKAN NATIVE	-	-	-	-	1	0.2	-	-	1	0.2
WHITE, NOT HISPANIC	36	0.2	38	0.2	47	0.3	39	0.2	31	0.2
UNKNOWN	63	-	67	-	38	-	37	-	48	-

Rates are expressed as cases per 100,000 population
Source: California Department of Public Health, Infectious Diseases Branch, Surveillance and Statistics Section.
California Department of Finance: Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

Malaria, Cases by Month, California, 2006 to 2010

MONTH OF ESTIMATED ONSET	YEAR OF ESTIMATED ONSET				
	2006	2007	2008	2009	2010
	CASES	CASES	CASES	CASES	CASES
TOTAL	146	135	126	127	123
JANUARY	16	11	11	9	8
FEBRUARY	12	7	4	4	4
MARCH	9	9	8	6	2
APRIL	11	12	9	7	3
MAY	15	17	8	9	11
JUNE	16	11	14	12	11
JULY	21	14	14	16	33
AUGUST	17	19	15	19	18
SEPTEMBER	8	8	16	12	9
OCTOBER	11	14	12	8	5
NOVEMBER	6	9	7	12	12
DECEMBER	4	4	8	13	7

Malaria, Cases and Rates by Age Group, California, 2006 to 2010

AGE GROUP	YEAR OF ESTIMATED ONSET									
	2006		2007		2008		2009		2010	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
TOTAL	146	0.4	135	0.4	126	0.3	127	0.3	123	0.3
0	-	-	-	-	1	0.2	1	0.2	-	-
01-04	2	0.1	3	0.1	3	0.1	3	0.1	3	0.1
05-14	7	0.1	9	0.2	11	0.2	6	0.1	11	0.2
15-24	30	0.5	17	0.3	19	0.3	19	0.3	26	0.4
25-34	34	0.7	35	0.7	27	0.5	24	0.5	18	0.3
35-44	29	0.5	19	0.3	21	0.4	24	0.4	24	0.4
45-54	28	0.5	24	0.4	22	0.4	22	0.4	9	0.2
55-64	6	0.2	16	0.4	13	0.3	17	0.4	16	0.4
65 +	9	0.2	6	0.1	7	0.2	7	0.2	12	0.3
UNKNOWN	1	-	6	-	2	-	4	-	4	-

Malaria, Cases and Rates by Race / Ethnicity, California, 2006 to 2010

RACE / ETHNICITY	YEAR OF ESTIMATED ONSET									
	2006		2007		2008		2009		2010	
	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE	CASES	RATE
TOTAL	146	0.4	135	0.4	126	0.3	127	0.3	123	0.3
ASIAN/PACIFIC ISLANDER	20	0.4	25	0.5	28	0.6	20	0.4	37	0.7
BLACK, NOT HISPANIC	43	1.8	27	1.1	34	1.4	30	1.2	31	1.3
HISPANC	7	0.1	9	0.1	6	0.0	14	0.1	6	0.0
AMERICAN INDIAN/ALASKAN NATIVE	-	-	-	-	1	0.2	-	-	-	-
WHITE, NOT HISPANIC	27	0.2	22	0.1	16	0.1	21	0.1	11	0.1
UNKNOWN	49	-	52	-	41	-	42	-	38	-

Rates are expressed as cases per 100,000 population
Source: California Department of Public Health, Infectious Diseases Branch, Surveillance and Statistics Section.
California Department of Finance: Population Estimates with Age, Sex, and Race/Ethnic Detail, July 2007.

TECHNICAL NOTES FOR MALARIA YEARLY SUMMARY REPORT:

In interpretation of the numbers in this report, please consider the following points:

- Because of inherent delays in case reporting and depending on the length of follow-up clinical, laboratory and epidemiologic investigation, cases with estimated onset dates may be added or rescinded after the date of this report. Therefore, data in this report particularly for the current year are provisional and may differ from data published in future reports.
- Estimated onset date is the date closest to the time when symptoms first appeared. Since date of onset may not be recorded, the estimated date of onset can range from the first appearance of symptoms to the date the report was made to CDPH.
- Data are extracted from California Confidential Morbidity Reports that were submitted to CDPH by September 10, 2011.