

Zoonotic diseases are diseases that can be spread between animals and humans. Zoonotic diseases can be caused by viruses, bacteria, parasites, and fungi through contact with infected animals, tick or mosquito bites, or eating or drinking something unsafe (e.g. unpasteurized milk, undercooked meat, or unwashed fruits and vegetables that have been contaminated). This report provides statistics on zoonotic diseases reported in Sacramento County for the years 2013 through 2017.

The total number of cases of select viral-related zoonotic diseases reported in Sacramento County decreased by 6.7% between 2013 and 2017 [Table 1]. During this five-year period, the number of West Nile virus cases decreased by 53.8%, with a 75.0% decrease among neuroinvasive disease cases and 20.0% decrease among non-neuroinvasive disease cases. Dengue virus cases tripled during this five-year period. No cases of Zika virus were reported in 2017.

Most cases of bacterial-related zoonotic diseases were reported in 2016 and 2017, with a 50% decrease in the total number of cases between these two years [Table 2]. In 2017, only one case of brucellosis in a human and two cases of leptospirosis were reported.

Among the select parasitic-related zoonotic diseases, only cases of malaria were reported during this five-year period and accounted for a six-fold increase in the total number of cases [Table 3].

Data Source: California Reportable Disease Information Exchange (CalREDIE). (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/CalREDIE.aspx>).

Notes: Data are provisional. Counts may be influenced by surveillance artifacts and outbreaks. Case definitions were revised for the following: Dengue (2015), Hantavirus (2015), Lyme Disease (2017), Malaria (2014), Tularemia (2017).

Table 1. Cases of Select Zoonotic Viral Diseases, Sacramento County, 2013-2017

Disease	2013	2014	2015	2016	2017
Chikungunya Virus Infection ²	0	2	1	0	1
Dengue Virus Infection ²	2	3	6	3	6
Hantavirus Infections ¹	0	0	0	0	1
Rabies, human ¹	0	0	0	0	0
West Nile Virus Infection ²	13	12	5	25	6
Neuroinvasive Disease	8	11	3	22	2
Non-Neuroinvasive Disease	5	1	2	3	4
Yellow Fever ²	0	0	0	0	0
Zika Virus Infection ²				8	0
Total	15	17	12	36	14

Table 2. Cases of Select Zoonotic Bacterial Diseases, Sacramento County, 2013-2017

Disease	2013	2014	2015	2016	2017
Anaplasmosis/Ehrlichiosis ²	0	0	0	1	0
Brucellosis, human ²	0	0	0	2	1
Leptospirosis ²	0	0	0	1	2
Lyme Disease ²	0	0	0	1	0
Plague, human ²	0	0	0	0	0
Relapsing Fever ²	0	1	0	0	0
Rocky Mountain Spotted Fever ²	0	0	0	1	0
Tularemia, human ²	0	0	0	0	0
Total	0	1	0	6	3

Table 3. Cases of Select Zoonotic Parasitic Diseases, Sacramento County, 2013-2017

Disease	2013	2014	2015	2016	2017
Babesiosis ²	0	0	0	0	0
Malaria ²	2	7	6	8	12
Total	2	7	6	8	12

¹Includes confirmed cases

³Includes confirmed, probable, and suspect cases

²Includes confirmed and probable cases

⁴Includes confirmed and suspect cases

More information on FBIs can be found on the Centers for Disease Control and Prevention's website (<https://www.cdc.gov/nceid/dvbd/index.html>) or the California Department of Public Health's website (<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/VBDS.aspx>).