

Kentucky Reportable Diseases Five Year Summary (2019-2023)

Disease Condition ^a	2019 Cases	2019 Crude Rate ^b	2020 Cases	2020 Crude Rate ^b	2021 Cases	2021 Crude Rate ^b	2022 Cases	2022 Crude Rate ^b	2023 Cases	2023 Crude Rate ^b		5-Year Total Case Count	5-Year Average Annual Case Count	5-Year Annual Est. Pop Avg ^l	5-Year Annual Average Rate ^b
Acquired Immunodeficiency Syndrome (AIDS) ^p	89	2.0	83	1.8	96	2.1	110	2.4	108	2.4		486	97		2.2
Anthrax	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Arboviral Diseases												0			
California Serogroup virus diseases												0			
California Encephalitis Virus	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0		1	0		0.0
Jamestown Canyon Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Keystone Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
La Crosse Virus	1	0.0	5	0.1	0	0.0	0	0.0	1	0.0		7	1		0.0
Snowshoe Hare Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Trivittatus viruses	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Chikungunya virus ^c	1	0.0	0	0.0	1	0.0	1	0.0	0	0.0		3	1		0.0
Eastern Equine Encephalitis Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Powassan Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Venezuelan Equine Encephalitis Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
West Nile Virus Disease ^c	10	0.2	2	0.0	4	0.1	4	0.1	12	0.3		32	6		0.1
Western Equine Encephalitis Virus Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Zika Virus ^c	2	0.0	0	0.0	0	0.0	1	0.0	0	0.0		3	1		0.0
Babesiosis	0	0.0	3	0.1	2	0.0	0	0.0	0	0.0		5	1		0.0
Botulism, infant	6	0.1	3	0.1	4	0.1	5	0.1	6	0.1		24	5		0.1
Botulism, foodborne	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0		1	0		0.0
Botulism, wound	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0		1	0		0.0
Brucellosis	0	0.0	0	0.0	1	0.0	1	0.0	0	0.0		2	0		0.0
Candida auris (C. auris), clinical ^e	0	0.0	0	0.0	11	0.2	22	0.5	29	0.6		62	12		0.3
Candida auris (C. auris), screening ^e	0	0.0	0	0.0	22	0.5	82	1.8	111	2.5		215	43		1.0
Campylobacteriosis	1,127	25.2	1,094	24.3	1,306	29.0	1,176	26.1	1,258	27.8		5,961	1,192		26.5
Chancroid	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0		2	0		0.0
<i>Chlamydia trachomatis</i> infection	20,912	468.1	18,750	416.1	18,500	410.5	18,358	406.9	17,284	381.9		93,804	18,761		416.6
Cholera	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Coccidioidomycosis	4	0.1	8	0.2	12	0.3	13	0.3	20	0.4		57	11		0.3
Carbapenemase-producing Organisms (CPO), clinical ^e	193	4.3	154	3.4	181	4.0	201	4.5	220	4.9		949	190		4.2
Carbapenemase-producing Organisms (CPO), screening ^e	64	67.0	67	1.5	106	2.4	102	2.3	81	1.8		420	84		1.9
Creutzfeldt-Jakob disease	3	0.1	3	0.1	1	0.0	3	0.1	2	0.0		12	2		0.1
Cronobacter spp. Invasive infection ^{k,n,o}	–	–	–	–	–	–	–	–	1	1.9		1	1		
Cryptosporidiosis	341	7.6	222	4.9	228	5.1	291	6.5	261	5.8		1,343	269		6.0
Cyclosporiasis ^{d,k}	–	–	–	–	29	0.6	25	0.6	51	1.1		105	35		0.8
Dengue virus infections ^c	3	0.1	1	0.0	0	0.0	5	0.1	10	0.2		19	4		0.1

^aCase counts based on MMWR print criteria for that calendar year available at <https://ndc.services.cdc.gov/event-codes-other-surveillance-resources/>

^bRates are expressed as total number of cases per 100,000 population. NOTE: Rates calculated from numerators less than 20 may not be reliably used to determine trends.

^cConfirmed and probable cases reported through ArboNET

^dNot reportable in Kentucky until June 2020

^eData are only for organisms that require direct reporting by EPID 250

^k5-Year Total Case Count, 5-Year Average Annual Case Count, 5-Year Annual Estimated Population Average and 5-Year Annual Average Rate are calculated for Cyclosporiasis based on 3 years; Giardiasis based on 3 years; MIS-C based on 4 years; Mpox based on 2 years; COVID-19 based on 4 years; and Cronobacter based on 3 years

^l5-Year Annual Estimated Population Average for Cronobacter: 51,994, Cyclosporiasis: 4,514,769; Giardiasis: 4,514,769; Hepatitis C, Perinatal exposure: 52,252; MIS-C: 4,512,536; Mpox: 4,518,859; COVID-19: 4,512,536; all other conditions: 4,503,563.

ⁿInvasive infection in an infant <12 months of age

^oNot reportable in Kentucky until 2023

^pData reported through 12/31/2023. Year represents time at initial HIV disease diagnosis. AIDS counts include those who had progressed to AIDS as of 12/31/2023. HIV (only) and AIDS counts total HIV disease cases diagnosed for each year

Disease Condition ^a	2019 Cases	2019 Crude Rate ^b	2020 Cases	2020 Crude Rate ^b	2021 Cases	2021 Crude Rate ^b	2022 Cases	2022 Crude Rate ^b	2023 Cases	2023 Crude Rate ^b		5-Year Total Case Count	5-Year Average Annual Case Count	5-Year Annual Est. Pop Avg ^l	5-Year Annual Average Rate ^b
Diphtheria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Ehrlichiosis/Anaplasmosis ^f	108	2.4	65	1.4	70	1.6	104	2.3	140	3.1		487	97		2.2
Giardiasis ^{d,k}	–	–	–	–	117	2.6	140	3.1	213	4.7		470	157		3.5
Gonorrhea	7,379	165.2	8,393	186.3	8,221	182.4	6,820	151.2	6,081	134.4		36,894	7,379		163.8
Granuloma inguinale	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
<i>Haemophilus influenzae</i> , invasive disease	111	2.5	38	0.8	35	0.8	62	1.4	133	2.9		379	76		1.7
Hansen Disease (Leprosy)	0	0.0	1	0.0	1	0.0	1	0.0	2	0.0		5	1		0.0
Hantavirus pulmonary syndrome	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Hemolytic uremic syndrome (HUS), post-diarrheal	18	0.4	6	0.1	9	0.2	11	0.2	9	0.2		53	11		0.2
Hepatitis A, Acute	1,318	29.5	57	1.3	42	0.9	8	0.2	15	0.3		1,440	288		6.4
Hepatitis B, Acute	188	4.2	112	2.5	76	1.7	80	1.8	84	1.9		540	108		2.4
Hepatitis B, Perinatal ^g	0	–	0	–	0	–	10	–	0	–		10	2	–	–
Hepatitis C, Acute ^q	246	5.5	258	5.7	311	6.9	324	7.2	359	7.9		1,498	300		6.7
Hepatitis C, Perinatal exposure ^h	1,248	23.5	1,278	24.7	1154	22.1	1,038	19.8	900	17.3		5,618	1,124		21.5
Histoplasmosis	46	1.0	45	1.0	87	1.9	101	2.2	83	1.8		362	72		1.6
Human Immunodeficiency Virus Infection (HIV), not AIDS ^p	244	5.5	220	4.9	298	6.6	295	6.5	257	5.7		1,314	263		5.8
Influenza-associated Mortality ⁱ	227	5.1	166	3.7	16	0.4	180	4.0	74	1.6		663	133		2.9
Influenza-associated Pediatric Mortality ⁱ	2	0.0	4	0.1	0	0.0	8	0.2	3	0.1		17	3		0.1
Legionellosis	121	2.7	74	1.6	116	2.6	104	2.3	107	2.4		522	104		2.3
Leptospirosis	1	0.0	0	0.0	1	0.0	0	0.0	0	0.0		2	0		0.0
Listeriosis	9	0.2	10	0.2	6	0.1	9	0.2	7	0.2		41	8		0.2
Lyme Disease	22	0.5	32	0.7	41	0.9	72	1.6	120	2.7		287	57		1.3
Lymphogranuloma venereum	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Malaria	14	0.3	3	0.1	5	0.1	10	0.2	18	0.4		50	10		0.2
Measles	2	0.0	0	0.0	0	0.0	0	0.0	2	0.0		4	1		0.0
Melioidosis (confirmed and probable) ^o	–	–	–	–	–	–	–	–	0						
Meningococcal disease	8	0.2	2	0.0	2	0.0	2	0.0	3	0.1		17	3		0.1
Middle Eastern Respiratory Syndrome (MERS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Mpox ^{k,m}	–	–	–	–	–	–	98	2.2	12	0.3		110	55		1.2
Multisystem Inflammatory Syndrome- COVID-19 (MIS-C) ^{d,k}	–	–	25	0.6	89	2.0	19	0.4	2	0.0		135	34		0.7
Mumps	6	0.1	5	0.1	4	0.1	2	0.0	9	0.2		26	5		0.1

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^bRates are expressed as total number of cases per 100,000 population. NOTE: Rates calculated from numerators less than 20 may not be reliably used to determine trends.

^dNot reportable in Kentucky until June 2020

^fEhrlichiosis/Anaplasmosis includes: *Anaplasma phagocytophilum* , *Ehrlichia chaffeensis* , *Ehrlichia ewingii* , undetermined human ehrlichiosis/anaplasmosis cases

^gPerinatal Hepatitis B cases were the number of infants with a positive Hepatitis B surface antigen test result. Due to the inadequate data on the denominator, rates were not calculated.

^hPerinatal Hepatitis C exposure cases were the number of infants born to mothers with reported history of hepatitis C infection on the birth certificate. Rates were calculated per 1,000 live births.

ⁱCounts based on calendar year

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^qProbable and confirmed cases are included in case count

Disease Condition ^a	2019 Cases	2019 Crude Rate ^b	2020 Cases	2020 Crude Rate ^b	2021 Cases	2021 Crude Rate ^b	2022 Cases	2022 Crude Rate ^b	2023 Cases	2023 Crude Rate ^b		5-Year Total Case Count	5-Year Average Annual Case Count	5-Year Annual Est. Pop Avg ^l	5-Year Annual Average Rate ^b
Novel Influenza A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Pertussis	214	4.8	65	1.4	31	0.7	41	0.9	118	2.6		469	94		2.1
Plague	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Poliomyelitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Psittacosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Q Fever	1	0.0	3	0.1	3	0.1	4	0.1	6	0.1		17	3		0.1
Rabies, Animal	14	N/A	17	N/A	15	N/A	10	N/A	19	N/A		75	15	N/A	N/A
Rabies, human	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Salmonellosis (excluding S. Typhi infection and S. Paratyphi infection)	748	16.7	662	14.7	586	13.0	622	13.8	699	15.4		3,317	663		14.7
Salmonella enterica Paratyphi A, B, C ⁱ	4	0.1	0	0.0	0	0.0	3	0.1	1	0.0		8	2		0.0
Salmonella enterica Typhi (S. Typhi), (Typhoid Fever) ^{l,j}	1	0.0	1	0.0	1	0.0	3	0.1	4	0.1		10	2		0.0
Severe Acute Respiratory Syndrome-associated Coronavirus (SARS-CoV)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Severe Acute Respiratory Syndrome-associated Coronavirus 2 (SARS-CoV-2; COVID-19) ^{d,k}	–	–	277,976	6,169.2	613,171	13,606.1	797,288	17672.1	200,725	4434.8		1,889,160	472,290		10466.2
Shiga toxin-producing <i>Escherichia coli</i> (STEC)	379	8.5	157	3.5	169	3.8	160	3.5	276	6.1		1,141	228		5.1
Shigellosis	124	2.8	55	1.2	62	1.4	83	1.8	128	2.8		452	90		2.0
Smallpox	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Spotted Fever Rickettsiosis	347	7.8	55	1.2	96	2.1	96	2.1	94	2.1		688	138		3.1
Streptococcal toxic shock syndrome	14	0.3	8	0.2	5	0.1	4	0.1	11	0.2		42	8		0.2
<i>Streptococcus pneumoniae</i> , (Invasive Pneumococcal Disease)	384	8.6	203	4.5	100	2.2	344	7.6	376	8.3		1,407	281		6.2
Syphilis	1,096	24.5	1,143	25.4	1,559	34.6	2,032	45.0	2,198	48.6		8,028	1,606		35.7
Tetanus	1	0.0	0	0.0	0	0.0	4	0.1	0	0.0		5	1		0.0
Toxic Shock Syndrome (Other than Streptococcal)	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0		1	0		0.0
Toxoplasmosis	12	0.3	2	0.0	16	0.4	13	0.3	22	0.5		65	13		0.3
Trichinellosis (Trichinosis)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Tuberculosis	66	1.5	67	1.5	57	1.3	70	1.6	75	1.7		335	67		1.5
Tularemia	13	0.3	5	0.1	11	0.2	4	0.1	10	0.2		43	9		0.2
Vancomycin-intermediate Staphylococcus aureus (VISA) ^e	10	0.2	0	0.0	0	0.0	0	0.0	1	0.0		11	2		0.0
Vancomycin-resistant Staphylococcus aureus (VRSA) ^e	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Varicella	57	1.3	16	0.4	39	0.9	29	0.6	51	1.1		192	38		0.9
Vibriosis	31	0.7	18	0.4	32	0.7	28	0.6	26	0.6		109	27		0.6
Viral Hemorrhagic Fevers															
Crimean-Congo Hemorrhagic Fever virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Ebola Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Lassa Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Lujo Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Marburg Virus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
New World Arenaviruses	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0
Yellow Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0	0		0.0

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^eData are only for organisms that require direct reporting by EPID 250

^lAdded to National Notifiable Disease List in 2019

^s. Typhi replaced Typhoid Fever in 2019

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