

**Table 2.7. Number and rates\* of deaths with hepatitis B virus infection listed as a cause of death† among residents, by state or jurisdiction — United States, 2015–2019**

State or Jurisdiction	2015		2016		2017		2018		2019	
	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
Alabama	15	UR <sup>§</sup>	19	UR <sup>§</sup>	19	UR <sup>§</sup>	19	UR <sup>§</sup>	12	UR <sup>§</sup>
Alaska	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Arizona	30	0.36	29	0.34	19	UR <sup>§</sup>	31	0.34	30	0.34
Arkansas	12	UR <sup>§</sup>	10	UR <sup>§</sup>	22	0.60	17	UR <sup>§</sup>	16	UR <sup>§</sup>
California	355	0.82	337	0.78	346	0.80	304	0.67	327	0.70
Colorado	23	0.40	23	0.39	32	0.51	26	0.39	35	0.49
Connecticut	17	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	13	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Delaware	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
District of Columbia	S <sup>¶</sup>	UR <sup>§</sup>	11	UR <sup>§</sup>	12	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Florida	108	0.40	98	0.36	129	0.45	109	0.41	111	0.40
Georgia	43	0.37	35	0.30	34	0.28	40	0.35	44	0.35
Hawaii	13	UR <sup>§</sup>	26	1.50	15	UR <sup>§</sup>	14	UR <sup>§</sup>	21	1.17
Idaho	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Illinois	30	0.21	40	0.28	30	0.19	31	0.20	25	0.17
Indiana	21	0.27	26	0.32	29	0.34	16	UR <sup>§</sup>	21	0.26
Iowa	S <sup>¶</sup>	UR <sup>§</sup>	16	UR <sup>§</sup>	15	UR <sup>§</sup>	19	UR <sup>§</sup>	11	UR <sup>§</sup>
Kansas	S <sup>¶</sup>	UR <sup>§</sup>	15	UR <sup>§</sup>	11	UR <sup>§</sup>	12	UR <sup>§</sup>	13	UR <sup>§</sup>
Kentucky	26	0.54	36	0.72	35	0.75	47	0.98	37	0.77
Louisiana	36	0.63	26	0.49	30	0.53	36	0.60	31	0.55
Maine	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Maryland	25	0.38	31	0.43	31	0.43	37	0.52	39	0.53
Massachusetts	46	0.54	32	0.37	36	0.47	28	0.36	22	0.24
Michigan	35	0.29	27	0.18	28	0.22	33	0.25	23	0.17
Minnesota	31	0.45	25	0.42	21	0.30	33	0.51	48	0.70
Mississippi	20	0.61	22	0.64	23	0.67	20	0.61	25	0.72
Missouri	20	0.25	13	UR <sup>§</sup>	19	UR <sup>§</sup>	24	0.31	19	UR <sup>§</sup>
Montana	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>¶</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Nebraska	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	10	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Nevada	18	UR <sup>§</sup>	23	0.66	13	UR <sup>§</sup>	20	0.51	16	UR <sup>§</sup>
New Hampshire	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>¶</sup>	S <sup>¶</sup>	UR <sup>§</sup>
New Jersey	48	0.45	39	0.34	43	0.43	41	0.39	34	0.29
New Mexico	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>¶</sup>	S <sup>¶</sup>	UR <sup>§</sup>
New York	115	0.50	138	0.60	123	0.50	115	0.47	113	0.48
North Carolina	40	0.34	42	0.37	36	0.29	35	0.27	39	0.29
North Dakota	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Ohio	58	0.44	44	0.34	55	0.42	42	0.32	49	0.36
Oklahoma	34	0.77	43	0.95	40	0.95	54	1.16	45	0.98
Oregon	35	0.67	27	0.54	29	0.52	23	0.45	42	0.78
Pennsylvania	44	0.27	41	0.25	35	0.20	34	0.22	37	0.25
Rhode Island	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	11	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
South Carolina	22	0.35	38	0.60	26	0.39	26	0.42	17	UR <sup>§</sup>
South Dakota	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Tennessee	54	0.70	55	0.71	63	0.83	50	0.61	63	0.87
Texas	130	0.43	149	0.51	150	0.51	119	0.40	135	0.43
Utah	10	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	11	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Vermont	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Virginia	25	0.26	23	0.24	29	0.30	28	0.28	20	0.18
Washington	48	0.53	47	0.55	47	0.56	53	0.57	50	0.54
West Virginia	21	0.89	11	UR <sup>§</sup>	14	UR <sup>§</sup>	23	1.26	18	UR <sup>§</sup>
Wisconsin	18	UR <sup>§</sup>	19	UR <sup>§</sup>	21	0.31	19	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
Wyoming	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>	S <sup>¶</sup>	UR <sup>§</sup>
<b>Total</b>	<b>1,707</b>	<b>0.46</b>	<b>1,690</b>	<b>0.45</b>	<b>1,727</b>	<b>0.46</b>	<b>1,649</b>	<b>0.43</b>	<b>1,662</b>	<b>0.42</b>

Source: CDC, National Center for Health Statistics, Multiple Cause of Death 1999–2019 on CDC WONDER Online Database. Data are from the 2015–2019 Multiple Cause of Death files and are based on information from all death certificates filed in the vital records offices of the 50 states and the District of Columbia through the Vital Statistics Cooperative Program. Deaths of nonresidents (e.g., nonresident aliens, nationals living abroad, residents of Puerto Rico, Guam, the Virgin Islands, and other US territories) and fetal deaths are excluded. Numbers are slightly lower than previously reported for 2015–2016 because of NCHS standards that restrict displayed data to US residents. Accessed at <http://wonder.cdc.gov/mcd-icd10.html> on January 11, 2021. CDC WONDER data set documentation and technical methods can be accessed at <https://wonder.cdc.gov/wonder/help/mcd.html#>.

\* Rates are age-adjusted per 100,000 US standard population during 2000 by using the following age group distribution (in years): <1, 1–4, 5–14, 15–24, 25–34, 35–44, 45–54, 55–64, 65–74, 75–84, and ≥85. For age-adjusted death rates, the age-specific death rate is rounded to 1 decimal place before proceeding to the next step in the calculation of age-adjusted death rates for NCHS Multiple Cause of Death on CDC WONDER. This rounding step might affect the precision of rates calculated for small numbers of deaths. Missing data are not included.

† Cause of death is defined as 1 of the multiple causes of death and is based on the International Classification of Diseases, 10<sup>th</sup> Rev. (ICD-10) codes B16, B17.0, B18.0, B18.1 (hepatitis B).

§UR Unreliable rate: Rates where death counts were <20 were not displayed because of the instability associated with those rates.

¶S Suppressed: Subnational data representing <10 deaths (0–9) are suppressed or CDC WONDER did not have the functionality to calculate rates.