

Leading Causes of Death by Sex and Race/Ethnicity State of Hawai‘i, 2018-2022

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Background & Methods

This report displays the leading causes of death for Hawai‘i residents ages 1 year and older. Death record information is from the Hawai‘i Department of Health, Office of Health Status Monitoring and was compiled by the Hawai‘i Health Data Warehouse.

Data for this report are based on information from death certificates. Causes of death are classified by the *International Classification of Diseases, 10th Revision (ICD-10)*, and underlying cause of death is assigned by the National Center for Health Statistics (NCHS), National Vital Statistics System (NVSS) at the Centers for Disease Control and Prevention (CDC) according to international standards. Leading causes of death have been aggregated based on the underlying cause of death. Causes of death are grouped into 114 selected causes of death according to NVSS standards for decedents aged 1 year and older. These are further grouped into 51 rankable causes of death. Death counts in these 51 groupings were used to generate the leading causes of death in this report. Detailed information about the methodology can be found [here](#). Records that are missing a cause of death were excluded from the analysis. To protect confidentiality, cells with counts between 1 and 9 have been suppressed. When this happens, fewer than 10 leading causes of death will be displayed in the matrix.

This report includes leading causes of death among Hawai‘i residents ages 1 year and older for the state from 2018-2022. A 5-year aggregate was used to ensure stability and minimize cell suppression. Residence was determined based on the census tract of the decedent. Detailed information on how residence is mapped to counties can be found [here](#). Race/ethnicity is reported according to the Hawai‘i State Department of Health reporting algorithm which includes Hawai‘i-specific race/ethnicities. More details on how decedent race/ethnicity was determined can be found [here](#).

Data in this report are displayed in matrix format. Each matrix contains the 10 leading causes of death for males and females for the state overall and by race/ethnicity. The number of deaths attributed to each cause is displayed under the label in the colored cells. In the sample matrix on the right, cancer was the leading cause of death for all females and American Indian/Alaska Native females accounting for 5,550 deaths and 35 deaths, respectively. Suppressed cells are indicated in dark grey. When two or more causes of death have the same counts, they are tied for rank, the cells are merged, and shown in light grey with the causes listed alphabetically within the cells.

Rank	Hawai‘i State		American Indian/Alaska Native	
	Female	Male	Female	Male
1	Cancer 5,550	Heart disease 7,403	Cancer 35	Heart disease 40
2	Heart disease 5,237	Cancer 6,574	Heart disease 31	Cancer 35
3	Stroke 2,283	Unintentional injury 2,097	Chronic lower respiratory disease 11	Unintentional injury 20
4	Alzheimer disease 1,786	Stroke 1,773	Suppressed data	

The color scheme for causes of death is consistent across the Leading Cause of Death Report series and is as follows:




















Pie Chart and Matrix Key			
Color	Cause of death (based on ICD-10)	Short title	ICD-10 codes
	Alzheimer's Disease	Alzheimer disease	G30
	Malignant Neoplasms	Cancer	C00-C97
	Chronic Lower Respiratory Diseases	Chronic lower respiratory disease	J40-J47
	COVID-19	COVID-19	U071
	Diabetes Mellitus	Diabetes	E10-E14
	Diseases of the Heart	Heart disease	I00-I09,I11,I13,I20-I51
	Assault (Homicide)	Homicide	*U01-*U02,X85-Y09,Y87.1
	Essential Hypertension and Hypertensive Renal Disease	Hypertension	I10,I12,I15
	Influenza and Pneumonia	Influenza and pneumonia	J09-J18
	Nephritis, Nephrotic Syndrome, and Nephrosis	Kidney disease	N00-N07,N17-N19,N25-N27
	Chronic Liver Disease and Cirrhosis	Liver	K70,K73-K74
	Parkinson's Disease	Parkinson disease	G20-G21
	Pregnancy, Childbirth and the Puerperium	Pregnancy, childbirth and puerperium	O00-099
	Septicemia	Septicemia	A40-A41
	Cerebrovascular Diseases	Stroke	I60-I69
	Intentional Self-Harm (Suicide)	Suicide	*U03,X60-X84,Y87.0
	Accidents (Unintentional Injuries)	Unintentional injury	V01-X59,Y85-Y86
	All Other Causes (sum of the other causes)	All other causes	Varies -- sum of all other deaths
	Used to denote ranks that are tied. <i>Causes of death are listed alphabetically in the event of a tie.</i>		

Figure 1. Leading Causes of Death in the State of Hawai'i by Sex and Race/Ethnicity, 2018-2022
Hawai'i State, American Indian/Alaska Native, Black and Other

Rank	Hawai'i State		American Indian/Alaska Native		Black		Other	
	Female N=26,735	Male N=30,471	Female N=165	Male N=189	Female N=197	Male N=410	Female N=327	Male N=452
1	Cancer 5,669	Heart disease 7,591	Cancer 38	Heart disease 41	Cancer 48	Heart disease 101	Heart disease 69	Heart disease 104
2	Heart disease 5,305	Cancer 6,597	Heart disease 37	Cancer 29	Heart disease 31	Cancer 85	Cancer 63	Cancer 90
3	Stroke 2,355	Unintentional injury 2,200	Chronic lower respiratory disease 10	Unintentional injury 15	Stroke 14	Unintentional injury 45	Stroke 33	Unintentional injury 46
4	Alzheimer disease 1,872	Stroke 1,832			Unintentional injury 11	Stroke 17	Alzheimer disease 22	Stroke 30
5	Unintentional injury 932	Chronic lower respiratory disease 1,058				Diabetes 11	Unintentional injury 20	Liver disease 21
6	Influenza and pneumonia 792	Diabetes 894				Suicide 10	COVID-19 11	Chronic lower respiratory disease 15
7	Chronic lower respiratory disease 780	COVID-19 838					Diabetes 11	COVID-19 14
8	Diabetes 753	Influenza and pneumonia 820						Alzheimer disease 10
9	COVID-19 558	Alzheimer disease 750						
10	Kidney disease 550	Suicide 749						

*Dark grey cells represent data that has been suppressed due to size restrictions.

Figure 2. Leading Causes of Death in the State of Hawai'i by Sex and Race/Ethnicity, 2018-2022
Hawai'i State, Chinese, Filipino, and Japanese

Rank	Hawai'i State		Chinese		Filipino		Japanese		Other Asian	
	Female N=26,735	Male N=30,471	Female N=1,726	Male N=1,606	Female N=3,808	Male N=4,457	Female N=8,334	Male N=7,220	Female N=877	Male N=773
1	Cancer 5,669	Heart disease 7,591	Cancer 362	Heart disease 402	Cancer 864	Heart disease 1,084	Heart disease 1,977	Heart disease 1,664	Cancer 216	Cancer 180
2	Heart disease 5,305	Cancer 6,597	Heart disease 335	Cancer 332	Heart disease 775	Cancer 990	Cancer 1,370	Cancer 1,494	Heart disease 148	Heart disease 173
3	Stroke 2,355	Unintentional injury 2,200	Stroke 174	Stroke 115	Stroke 384	Stroke 323	Alzheimer disease 920	Stroke 508	Stroke 86	Unintentional injury 62
4	Alzheimer disease 1,872	Stroke 1,832	Alzheimer disease 129	Unintentional injury 75	Alzheimer disease 169	Unintentional injury 286	Stroke 807	Unintentional injury 301	Alzheimer disease 53	Stroke 60
5	Unintentional injury 932	Chronic lower respiratory disease 1,058	Influenza and pneumonia 75	Influenza and pneumonia 67	Diabetes 150	COVID-19 207	Influenza and pneumonia 313	Alzheimer disease 280	Unintentional injury 38	COVID-19 31
6	Influenza and pneumonia 792	Diabetes 894	Unintentional injury 53	Alzheimer disease 64	COVID-19 139	Chronic lower respiratory disease 184	Unintentional injury 238	Influenza and pneumonia 273	Influenza and pneumonia 30	Alzheimer disease 24
7	Chronic lower respiratory disease 780	COVID-19 838	Kidney disease 41	Kidney disease 50	Influenza and pneumonia 134	Diabetes 152	Diabetes 184	Chronic lower respiratory disease 229	Suicide 20	Suicide 24
8	Diabetes 753	Influenza and pneumonia 820	Parkinson disease 39	Diabetes 46	Kidney disease 130	Influenza and pneumonia 117	Chronic lower respiratory disease 160	Diabetes 187	Hypertension 17	Influenza and pneumonia 23
9	COVID-19 558	Alzheimer disease 750	Diabetes 31	Chronic lower respiratory disease 37	Unintentional injury 106	Kidney disease 116	Parkinson disease 155	Parkinson disease 174	COVID-19 16	Chronic lower respiratory disease 22
10	Kidney disease 550	Suicide 749	COVID-19 30	COVID-19 36	Chronic lower respiratory disease 83	Alzheimer disease 81	Hypertension 144	Kidney disease 166	Diabetes 16	Parkinson disease 19

*Grey Cells represent data that has been suppressed due to size restrictions.

Figure 3. Leading Causes of Death in the State of Hawai'i by Sex and Race/Ethnicity, 2018-2022
Hawai'i State, Other Asian, Native Hawaiian, Other Pacific Islander, and White

Rank	Hawai'i State		Native Hawaiian		Other Pacific Islander		White	
	Female N=26,735	Male N=30,471	Female N=4,587	Male N=5,813	Female N=994	Male N=1,414	Female N=5,270	Male N=8,137
1	Cancer 5,669	Heart disease 7,591	Cancer 1,087	Heart disease 1,602	Cancer 256	Heart disease 324	Cancer 1,344	Heart disease 1,975
2	Heart disease 5,305	Cancer 6,597	Heart disease 999	Cancer 1,133	Heart disease 194	Cancer 285	Heart disease 1,129	Cancer 1,926
3	Stroke 2,355	Unintentional injury 2,200	Stroke 319	Unintentional injury 603	COVID-19 85	Unintentional injury 133	Stroke 441	Unintentional injury 592
4	Alzheimer disease 1,872	Stroke 1,832	Unintentional injury 217	Stroke 272	Stroke 82	COVID-19 115	Alzheimer disease 366	Stroke 393
5	Unintentional injury 932	Chronic lower respiratory disease 1,058	Diabetes 198	Diabetes 228	Diabetes 62	Stroke 80	Chronic lower respiratory disease 284	Chronic lower respiratory disease 340
6	Influenza and pneumonia 792	Diabetes 894	Alzheimer disease 177	Suicide 202	Kidney disease 38	Diabetes 74	Unintentional injury 203	Suicide 262
7	Chronic lower respiratory disease 780	COVID-19 838	Chronic lower respiratory disease 174	Chronic lower respiratory disease 171	Unintentional injury 34	Suicide 57	Influenza and pneumonia 110	Liver disease 207
8	Diabetes 753	Influenza and pneumonia 820	Kidney disease 111	COVID-19 160	Influenza and pneumonia 27	Influenza and pneumonia 32	Diabetes 88	Alzheimer disease 204
9	COVID-19 558	Alzheimer disease 750	COVID-19 111	Kidney disease 123	Septicemia 21	Kidney disease 31	Liver disease 88	Influenza and pneumonia 189
10	Kidney disease 550	Suicide 749	Influenza and pneumonia 86	Influenza and pneumonia 93	Alzheimer disease 17	Chronic lower respiratory disease 30	Suicide 78	Parkinson disease 184

*Grey Cells represent data that has been suppressed due to size restrictions.

References

Hawai'i Health Data Warehouse. *2023 Race/Ethnicity Documentation*. Published March 2023. Accessed October 23, 2023. <https://hhdw.org/wp-content/uploads/2023/03/Race-Ethnicity-Documentation-2023-3.30.23.pdf>

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