In an effort to keep Clark County residents and visitors aware of heat associated illness and mortality, the Southern Nevada Health District (SNHD) has developed this report detailing heat associated deaths and emergency department (ED) visits for 2023. The Centers for Disease Control and Prevention (CDC) defines extreme heat as reaching higher than average temperatures or humidity levels for a particular location and time of year. Heat-related illness occurs when a person’s body temperature rises faster than it can cool down, which may lead to heat exhaustion or heat stroke, ultimately damaging the brain or other vital organs. Older adults, the very young, and those with mental illness or chronic disease have the highest risk of heat-related illness. However, anyone can be affected if participating in strenuous physical exercise in hotter weather. As of this publication, there were 294 heat associated deaths in 2023, a 78% increase compared to the 165 heat associated deaths in 2022. A total of 2,277 heat related ED visits were recorded, with the peak for both ED visits and deaths occurring near the middle and end of July.

Figure 1. Heat-associated deaths in Clark County by week, 2023

Figure 2. Age-adjusted mortality rate of heat-associated deaths in Clark County by year, 2019 – 2023
Table 2. Heat-associated deaths in Clark County by Race, 2023

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Count</th>
<th>% of Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>162</td>
<td>55.1%</td>
</tr>
<tr>
<td>Black</td>
<td>63</td>
<td>21.4%</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>14</td>
<td>4.8%</td>
</tr>
<tr>
<td>American Indian/Alaskan Native</td>
<td>2</td>
<td>0.7%</td>
</tr>
<tr>
<td>Multi-racial</td>
<td>4</td>
<td>1.4%</td>
</tr>
<tr>
<td>Other</td>
<td>4</td>
<td>1.4%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>41</td>
<td>13.9%</td>
</tr>
<tr>
<td>Unknown</td>
<td>4</td>
<td>1.4%</td>
</tr>
</tbody>
</table>

*Race and Hispanic origin are reported separately on death certificates. People of Hispanic origin may be of any race. For this table, non-Hispanic individuals are classified by race.

Figure 5. Heat-associated deaths in Clark County and Involvement of substances, 2023
Figure 6. Clark County heat-associated deaths by month, 2023*

*Does not include a death caused by heat in November 2023

Figure 7. Heat-associated deaths in Clark County by location of heat injury and month, 2023

Figure 8. Heat-associated deaths in Clark County and homelessness
Figure 9. Location of injury for heat-associated deaths among ZIP codes associated with Clark County, NV*

*29 cases did not have a known ZIP code for the location of heat injury.

Data Sources:
Mortality and Demographics: Nevada Electronic Death Registry System (EDRS) provided by the Nevada Department of Public and Behavioral Health Office of Analytics.
Max/Min Temperature: National Weather Service. Past weather reported by Las Vegas WFO, NV.
Heat Associated Deaths: defined as those having an ICD-10 code of 'T67' or 'X30'.
“Heat Caused” Deaths: Deaths in which a form of heat (exposure, hyperthermia) is listed in Part I of the Cause of Death in the death certificate; either the immediate cause or part of the chain of events leading to immediate cause of death.
“Heat Related” Deaths: Deaths in which a form of heat (exposure, hyperthermia) is listed in “Other Significant Conditions” or Part II of the death certificate but not listed in Part I.
Drug/Substance Use: defined as those having an ICD-10 code associated with the named drug or substance.
Methamphetamine was identified using ICD-10 T43.6 and ‘Methamphetamine’ listed in Part I or Part II of the Cause of Death.
Homeless data was provided by the coroner. The events not determined as homeless by the coroner, but had an unknown home address in EDRS, were labeled as “unknown”.
HEAT-ASSOCIATED DEATHS & EMERGENCY DEPARTMENT VISITS
2023 REPORT [04/01/2023 – 10/31/2023]

Figure 10. Daily Count of Emergency Department Visits due to Heat-Related Illness in Clark County, 2023

Figure 11. Heat-Related Illness ED Visits by Gender, 2023

Figure 12. Heat-Related Illness ED Visits by Age Group, 2023

Data Source: The Electronic Surveillance System for the Early Notification of Community-Based Epidemics (ESSENCE). Heat-related illness data was identified by querying CC and DD Category “Heat Related Illness v1”. Data is preliminary and subject to change throughout the season.

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