

## Key Takeaways

- Approximately 1,000 Montanans die each year from injuries
- Two-thirds of injury deaths are unintentional
- Injury is the leading cause of death for Montanans under age 45
- Males, residents of rural counties, and American Indian/Alaska Native people are most affected

## Introduction

“Injury” is defined as bodily damage produced by energy exchanges or deprivations resulting in relatively sudden, discernible effects. Injuries can result from blunt or penetrating trauma, drug overdose, non-drug poisoning, fire and chemical burns, electrocution, drowning, suffocation, bites and stings, and more.

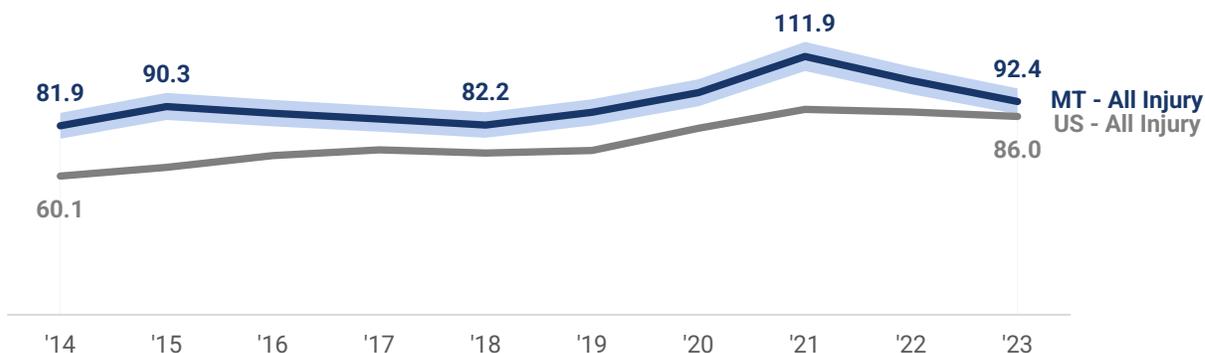
Injury surveillance is one of the most important and basic elements of injury prevention, helping to determine the burden, the leading causes, and the population groups and behaviors associated with the greatest risk of injury. These data are crucial for determining prevention priorities and evaluating program effectiveness.

In Montana, injury is the third leading cause of death among residents, exceeded by heart disease and cancer. Among Montanans under 45 years of age, injury is the leading cause of death by a large margin.<sup>1</sup> This report describes injury mortality patterns in Montana from 2014-2023 by demographic factors, county of residence, and injury cause. Analysis methodology is described in *Appendix A. Analysis Methodology*.

## Overall Trends

Injury accounted for 10,483 deaths among Montana residents between 2014-2023, or approximately 1,000 deaths per year. The 10-year age-adjusted rate (AAR) due to injury was 91.9 per 100k residents.<sup>2</sup> The annual Montana injury death rate is shown in **Figure 1** along with the U.S. rate.<sup>3</sup> In 2014, the Montana rate was 81.9 per 100k. It rose to 90.3 in 2015 and then declined slightly until 2018. Injury deaths then rose to a peak of 111.9 per 100k in 2021 and declined from 2021-2023 (**Figure 1, Table 8**). In comparison, the U.S. injury death rate increased by 50% since 2014 and converged with Montana in 2023, which has historically had a higher injury death rate.

**Figure 1.** U.S. and Montana age-adjusted all injury death rates per 100,000 residents, 2014-2023



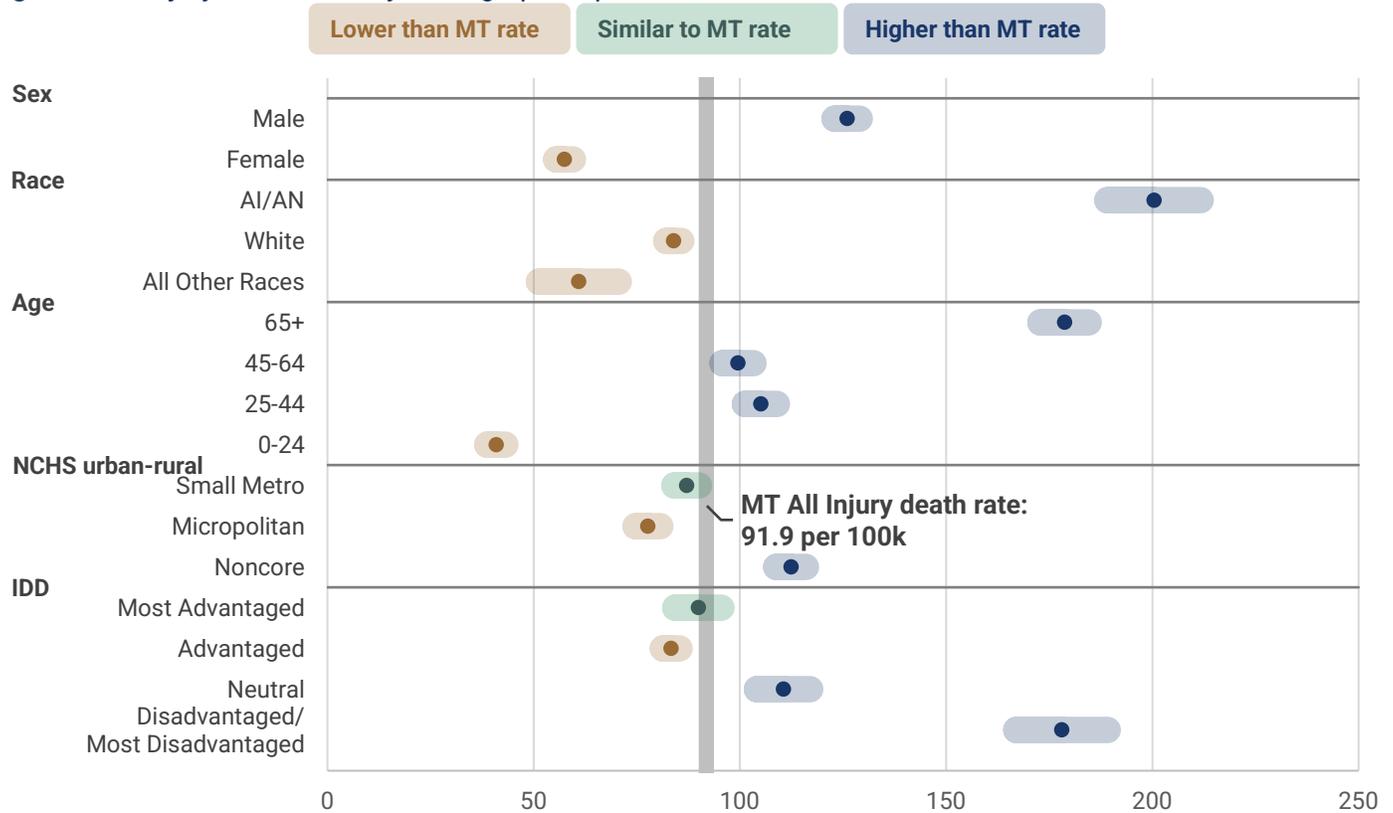
Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8. Results of joinpoint regression modelling). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>



**Figure 2** shows injury death rates by demographics including sex, race, age, and county of residence grouped two ways (the National Center for Health Statistics (NCHS) 2013 urban-rural classification scheme<sup>4</sup> and the 2020 Index of Deep Disadvantage<sup>5</sup> (IDD) – See *Appendix B. County Properties*). Injury deaths were higher among males, American Indian/Alaska Native (AI/AN) people, people over the age of 25, residents of rural (noncore) counties, and residents of neutral and disadvantaged/most disadvantaged (DMD) counties.

**Table 9** and **Table 10** show injury death rates and counts by demographics and county of residence.

**Figure 2.** All injury death rates by demographics per 100,000 residents, 2014-2023



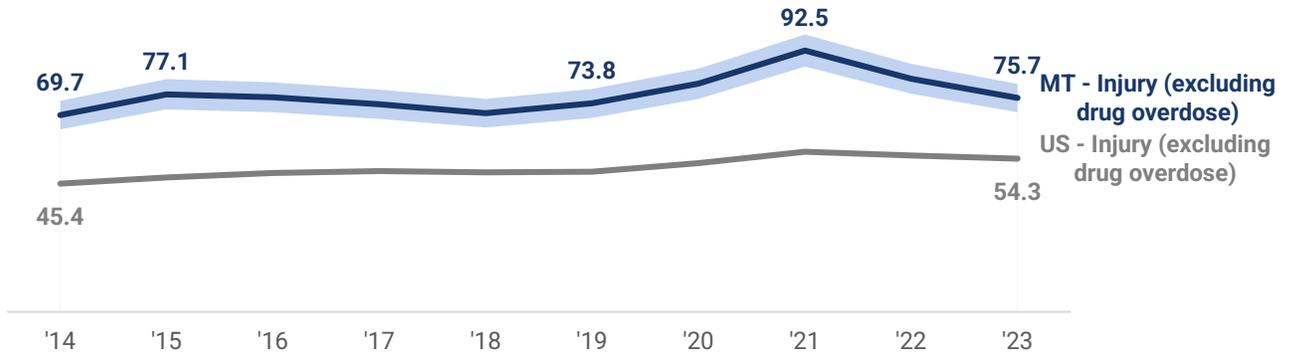
Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). Data source: MT Vital Statistics<sup>2</sup>

### Injury (excluding drug overdose)

**Figure 3** shows injury death rates (excluding drug overdoses) for Montana and the U.S. The fatality rate in Montana remained nearly 50% higher than the national rate from 2014-2023. The Montana trend shown in **Figure 3** follows a similar pattern as seen in **Figure 1** which includes drug overdoses. The effect of excluding drug overdoses is more pronounced when looking at the U.S. trend, suggesting that drug overdoses drove the increase in U.S. all injury mortality seen during this time frame.

For detailed information about drug overdoses, see the recent report [Drug Overdose Deaths in Montana 2014-2023](#).

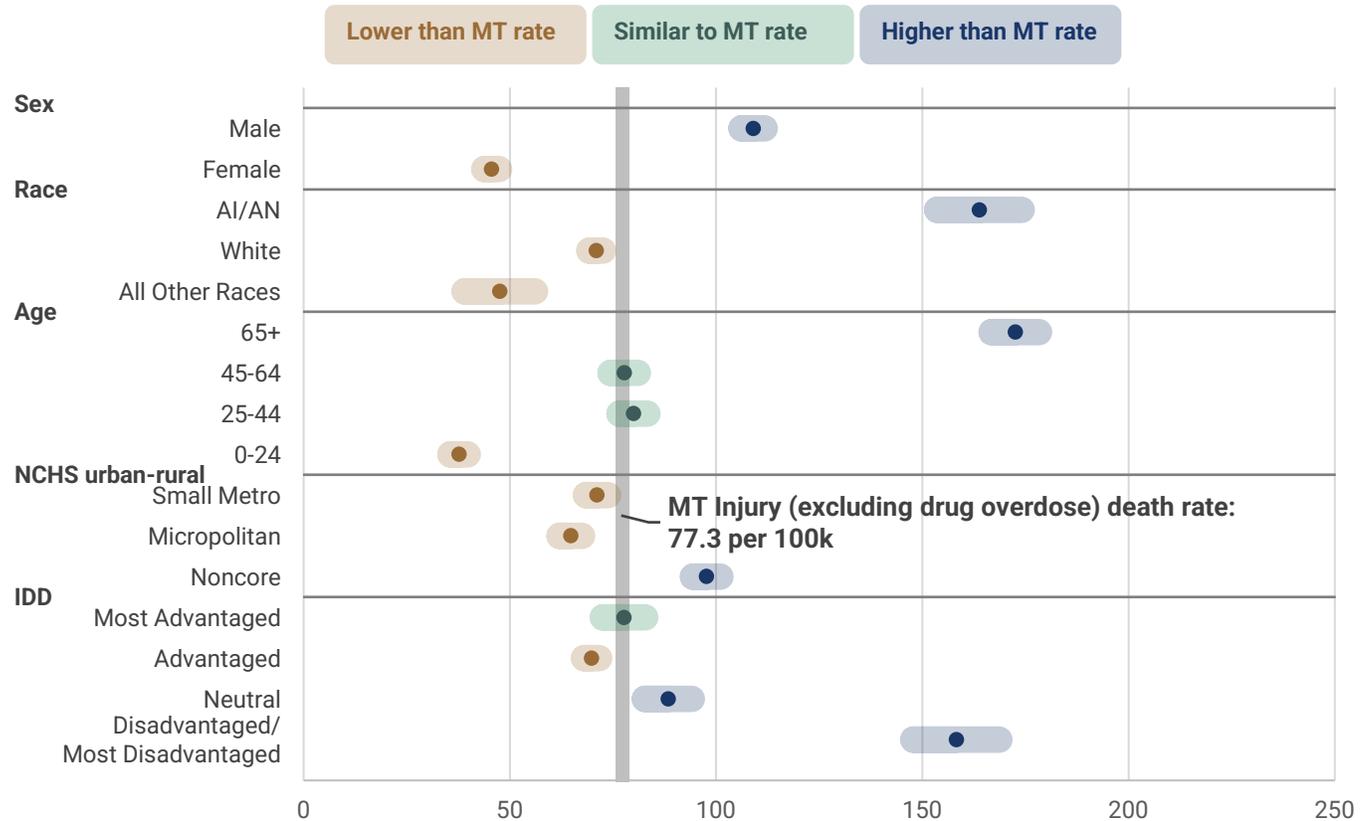
**Figure 3.** U.S. and Montana age-adjusted injury (excluding drug overdose) death rates per 100,000 residents



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 4** shows that injury (excluding drug overdose) deaths were higher among males, AI/AN people, people over the age of 65, residents of rural (noncore) counties, and residents of neutral and DMD counties.

**Figure 4.** Injury (excluding drug overdose) death rates by demographics per 100,000 residents, 2014-2023



Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>



## Cause of Injury

Injuries are typically classified by mechanism and intent as shown in **Table 1**. Mechanism refers to the source of the energy transfer that caused the injury, and intent refers to whether the injury was purposefully caused and if so, by whom. Intent categories include unintentional (injury occurred without intention of causing damage), intentional self-harm/suicide, assault/homicide (intentional injury inflicted by another person), legal intervention/war (intentional injury inflicted by law enforcement or during operations of war).

**Table 1. Counts of injury deaths by mechanism and intent, 2014-2023**

| Mechanism of Injury           | Unintentional | Suicide/<br>Self-harm | Homicide/<br>Assault | Undetermined<br>Intent | Legal/War | All           |
|-------------------------------|---------------|-----------------------|----------------------|------------------------|-----------|---------------|
| <b>Cut/Pierce</b>             | 11            | 54                    | 63                   | 2                      | 0         | <b>130</b>    |
| <b>Drowning/Submersion</b>    | 171           | 14                    | 0                    | 22                     | 0         | <b>207</b>    |
| <b>Fall</b>                   | 1,912         | 28                    | 0                    | 8                      | 0         | <b>1,948</b>  |
| <b>Fire/Burn</b>              | 113           | 9                     | 2                    | 9                      | 0         | <b>133</b>    |
| Fire/Flame                    | 111           | 9                     | 2                    | 9                      | 0         | 131           |
| Hot Object/Substance          | 2             | 0                     | 0                    | 0                      | 0         | 2             |
| <b>Firearm</b>                | 32            | 1,883                 | 247                  | 27                     | 55        | <b>2,244</b>  |
| <b>Machinery</b>              | 27            | 0                     | 0                    | 0                      | 0         | <b>27</b>     |
| <b>Transportation (All)</b>   | 2,207         | 11                    | 3                    | 3                      | 0         | <b>2,224</b>  |
| Motor Vehicle Traffic (MVT)   | 1,930         | 0                     | 0                    | 0                      | 0         | 1,930         |
| MVT-Occupant                  | 355           | 0                     | 0                    | 0                      | 0         | 355           |
| MVT-Motorcyclist              | 208           | 0                     | 0                    | 0                      | 0         | 208           |
| MVT-Pedal Cyclist             | 19            | 0                     | 0                    | 0                      | 0         | 19            |
| MVT-Pedestrian                | 169           | 0                     | 0                    | 0                      | 0         | 169           |
| MVT-Unspecified               | 1,179         | 0                     | 0                    | 0                      | 0         | 1,179         |
| MVT-Other                     | 0             | 0                     | 0                    | 0                      | 0         | 0             |
| Pedal Cyclist, Other          | 14            | 0                     | 0                    | 0                      | 0         | 14            |
| Pedestrian, Other             | 49            | 0                     | 0                    | 0                      | 0         | 49            |
| Other Land Transport          | 147           | 11                    | 3                    | 3                      | 0         | 164           |
| Other Transport               | 67            | 0                     | 0                    | 0                      | 0         | 67            |
| <b>Natural/Environmental</b>  | 201           | 0                     | 0                    | 0                      | 0         | <b>201</b>    |
| <b>Overexertion</b>           | 0             | 0                     | 0                    | 0                      | 0         | <b>0</b>      |
| <b>Poisoning</b>              | 1,356         | 299                   | 6                    | 112                    | 0         | <b>1,773</b>  |
| Drug Poisoning                | 1,182         | 215                   | 2                    | 102                    | 0         | 1,501         |
| Non-Drug Poisoning            | 174           | 84                    | 4                    | 10                     | 0         | 272           |
| <b>Struck By/Against</b>      | 42            | 0                     | 18                   | 0                      | 0         | <b>60</b>     |
| <b>Suffocation</b>            | 300           | 603                   | 22                   | 6                      | 0         | <b>931</b>    |
| <b>Other Specified</b>        | 133           | 27                    | 33                   | 26                     | 5         | <b>224</b>    |
| Other Specified, Classifiable | 64            | 19                    | 10                   | 4                      | 1         | 98            |
| Other Specified, NEC          | 69            | 8                     | 23                   | 22                     | 4         | 126           |
| <b>Unspecified</b>            | 298           | 3                     | 50                   | 30                     | 0         | <b>381</b>    |
| <b>All</b>                    | <b>6,803</b>  | <b>2,931</b>          | <b>444</b>           | <b>245</b>             | <b>60</b> | <b>10,483</b> |



Approximately two-thirds of injury deaths (N=6,803, 64.9%) were unintentional. The most common unintentional injury mechanisms were transportation related, falls, and poisoning (including drug overdose). Suicide accounted for 28.0% of injury fatalities (N=2,931) most commonly due to firearms, suffocation, and poisoning (including drug overdose). Homicide accounted for 4.2% of injury deaths (N=444). The most common homicide mechanisms were firearms and cut/pierce.

The top five causes of injury death among Montanans from 2014-2023 are listed in **Table 2**.

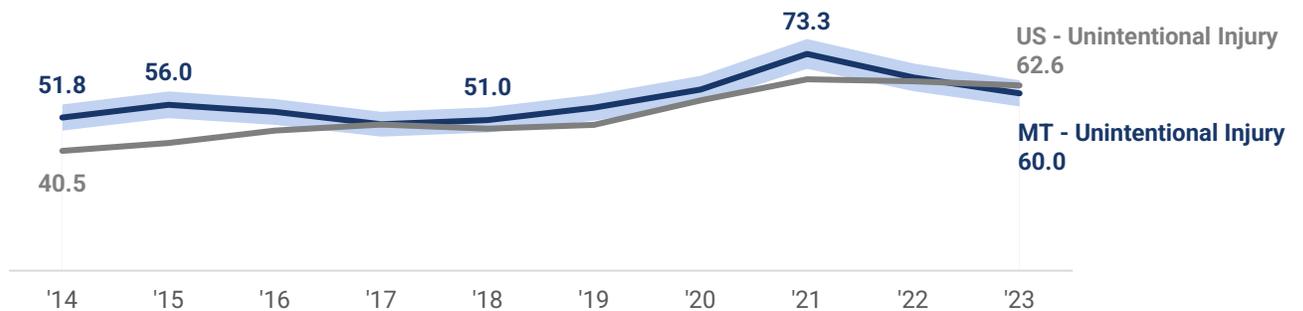
**Table 2. Top five causes of injury death by sub-population, Montana, 2014-2023**

| Top 5 Causes of Injury                  | Age-adjusted rate per 100k residents | (95% Confidence Interval) | N     |
|---|--------------------------------------|---------------------------|-------|
| <b>All Montanans</b>                    |                                      |                           |       |
| Unintentional motor vehicle, traffic    | 17.8                                 | (17.0-18.6)               | 1,930 |
| Suicide by firearm                      | 16.8                                 | (16.0-17.6)               | 1,883 |
| Unintentional falls                     | 13.8                                 | (13.2-14.5)               | 1,912 |
| Unintentional drug poisoning (overdose) | 11.6                                 | (10.9-12.3)               | 1,182 |
| Suicide by suffocation                  | 5.9                                  | (5.4-6.4)                 | 603   |
| <b>Male Montanans</b>                   |                                      |                           |       |
| Suicide by firearm                      | 28.7                                 | (27.3-30.1)               | 1,620 |
| Unintentional motor vehicle, traffic    | 23.8                                 | (22.5-25.1)               | 1,319 |
| Unintentional falls                     | 15.7                                 | (14.7-16.7)               | 952   |
| Unintentional drug poisoning (overdose) | 14.6                                 | (13.5-15.7)               | 745   |
| Suicide by suffocation                  | 8.7                                  | (7.8-9.5)                 | 450   |
| <b>AI/AN Montanans</b>                  |                                      |                           |       |
| Unintentional motor vehicle, traffic    | 51.8                                 | (46.3-57.2)               | 368   |
| Unintentional drug poisoning (overdose) | 33.6                                 | (28.9-38.2)               | 214   |
| Suicide by suffocation                  | 19.5                                 | (16.2-22.8)               | 145   |
| Homicide                                | 18.4                                 | (15.1-21.7)               | 127   |
| Suicide by firearm                      | 15.5                                 | (12.4-18.6)               | 106   |
| <b>Noncore County Residents</b>         |                                      |                           |       |
| Unintentional motor vehicle, traffic    | 27.6                                 | (25.7-29.4)               | 949   |
| Suicide by firearm                      | 19.4                                 | (17.9-20.9)               | 730   |
| Unintentional falls                     | 13.6                                 | (12.6-14.6)               | 718   |
| Unintentional drug poisoning (overdose) | 12.2                                 | (10.9-13.4)               | 394   |
| Suicide by suffocation                  | 8.2                                  | (7.2-9.3)                 | 256   |
| <b>DMD County Residents</b>             |                                      |                           |       |
| Unintentional motor vehicle, traffic    | 50.6                                 | (44.7-56.5)               | 296   |
| Suicide by firearm                      | 20.6                                 | (16.9-24.3)               | 123   |
| Unintentional drug poisoning (overdose) | 17.0                                 | (13.6-20.8)               | 96    |
| Unintentional falls                     | 15.1                                 | (12.1-18.6)               | 94    |
| Homicide                                | 14.9                                 | (11.8-18.5)               | 85    |

## Unintentional Injury Trends

About two thirds of injury deaths in the past ten years were unintentional (64.9%). The ten-year AAR due to unintentional injury was 57.9 per 100k. **Figure 5** shows unintentional injury death trends from 2014-2023 in the U.S. and Montana, which were mainly driven by motor vehicle traffic injuries (N=1,930), falls (N=1,912), and drug overdoses (N=1,182). **Table 9** and **Table 10** show unintentional injury death rates and counts by demographics and county of residence.

**Figure 5. U.S. and Montana age-adjusted unintentional injury death rates per 100,000 residents, 2014-2023**



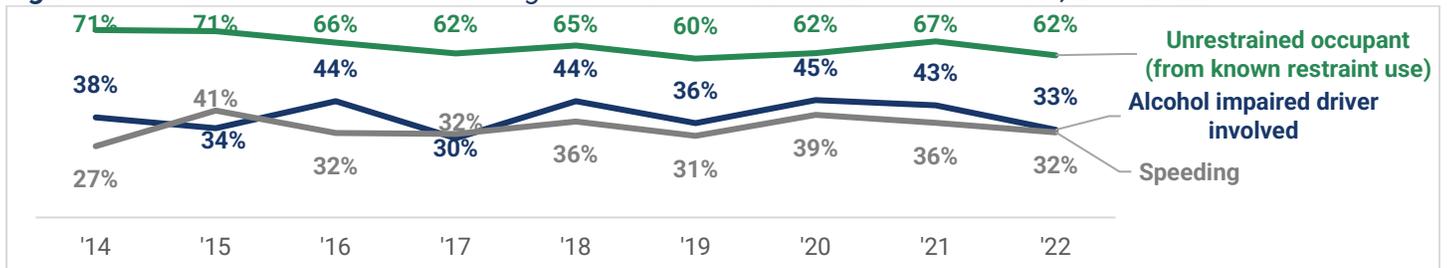
Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

### Unintentional Motor Vehicle Traffic Injuries

Unintentional motor-vehicle traffic (MVT) fatalities include injuries to motor vehicle occupants (drivers and passengers), motorcyclists, pedestrians, pedal cyclists, and other persons that occurred due to a transport incident involving a motor vehicle that occurred on a public highway or street.<sup>a</sup>

**Figure 6** shows the prevalence of risk factors among motor vehicle crash fatalities in Montana, including the percent of decedents who were unrestrained<sup>b</sup>, percent where alcohol impairment<sup>c</sup> was involved, and percent where speeding was involved. Lack of proper restraint use remained the most common risk factor, seen in two thirds of people who died in motor vehicle crashes from 2014-2022.<sup>6</sup>

**Figure 6. Prevalence of risk factors among motor vehicle crash fatalities in Montana, 2014-2022**



Notes: No data available for 2023. Data source: NHTSA<sup>6</sup>

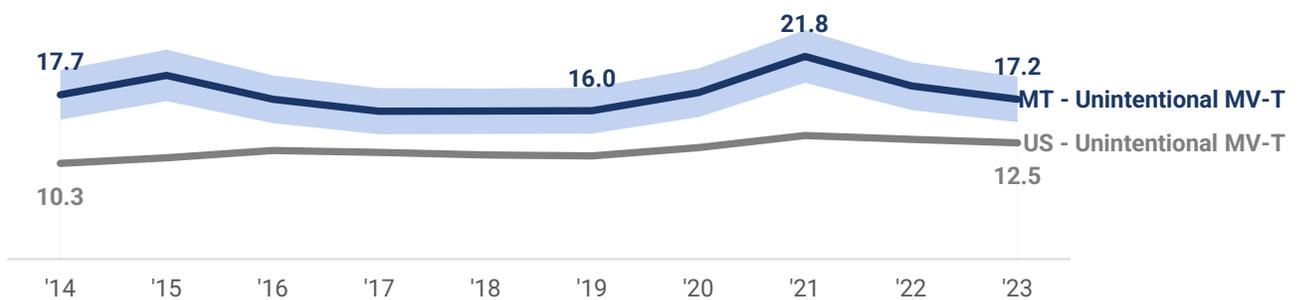
<sup>a</sup> A “non-traffic” incident occurs entirely in any place other than a public highway or street. Transport incidents are assumed to have occurred on a public road unless another place is specified, except for those involving only off-road motor vehicles, which are classified as “non-traffic” unless the contrary is stated.

<sup>b</sup> The denominator of this percentage is all deaths to occupants of passenger vehicles with known restraint use status.

<sup>c</sup> Any fatality occurring due to a traffic crash involving a driver with a blood alcohol content (BAC) of .08 g/dL or higher is considered an alcohol-impaired-driving fatality.

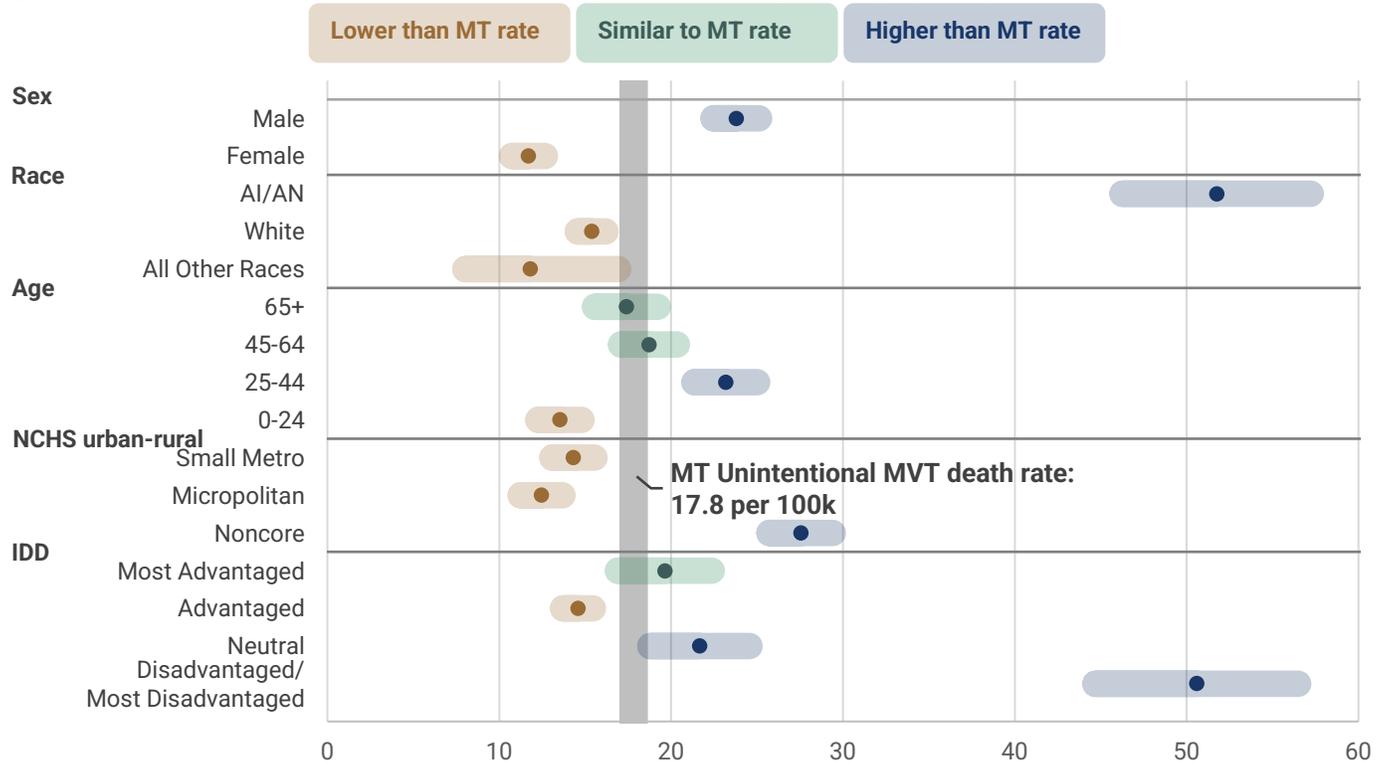
**Figure 7** shows that the unintentional MVT fatality rate in Montana remained higher than the national rate from 2014-2023. The rate in Montana rose to a peak of 21.8 per 100k residents in 2021, before declining to 17.2 in 2023 (**Figure 7, Table 8**). A similar pattern was seen at the national level with increased motor vehicle crash-related fatalities in 2020 and 2021 that coincided with the onset of the COVID-19 pandemic. The increase was largely attributed to drivers engaging in riskier driving behaviors, including speeding, impaired driving, and lack of seatbelt use at higher rates than before the pandemic.<sup>7</sup> MVT deaths were higher among males, AI/AN people, people aged 25-44, residents of rural counties, and residents of DMD counties (**Figure 8**).

**Figure 7. U.S. and Montana age-adjusted unintentional motor-vehicle traffic injury death rates per 100,000 residents, 2014-2023**



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 8. Unintentional motor-vehicle traffic injury death rates by demographics per 100,000 residents, 2014-2023**



Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>



*Unintentional Fall Injuries*

Falls are a leading cause of injury-related death, particularly among older adults. Risk of falls increases with age as older individuals often experience a decline in muscle strength, balance, and coordination. People often associate falls with higher, more dramatic impacts—like falls from heights—when, in fact, a large proportion of fall-related deaths occur from falls at ground level. In Montana, one third of fatal falls were same-level falls (Table 3). This highlights the need to address more everyday risk factors.

**Table 3. Unintentional fall deaths by type of fall, 2014-2023**

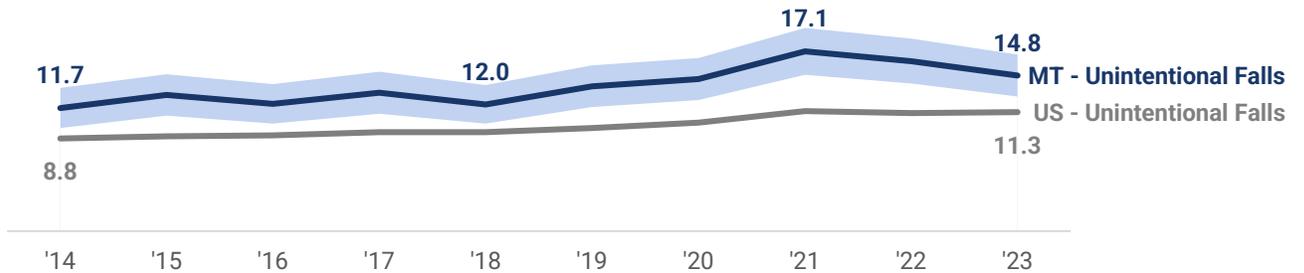
| Underlying Cause of Death ICD10 Code                          | N            | %             |
|---|--------------|---------------|
| Unspecified fall  | 684          | 35.8%         |
| Other fall on same level                                      | 625          | 32.7%         |
| Fall on and from stairs and steps                             | 146          | 7.6%          |
| Fall on same level from slipping, tripping and stumbling      | 128          | 6.7%          |
| Fall involving bed  | 102          | 5.3%          |
| Fall involving wheelchair                                     | 41           | 2.1%          |
| Fall involving chair  | 39           | 2.0%          |
| Other fall from one level to another                          | 35           | 1.8%          |
| Fall from, out of or through building or structure            | 27           | 1.4%          |
| Fall on and from ladder                                       | 26           | 1.4%          |
| Fall on same level involving ice and snow                     | 24           | 1.3%          |
| Fall from cliff   | 14           | 0.7%          |
| Fall involving other furniture                                | 10           | 0.5%          |
| Fall on and from scaffolding                                  | 4            | 0.2%          |
| Fall involving ice-skates, skis, roller-skates or skateboards | 4            | 0.2%          |
| Fall while being carried or supported by other persons        | 2            | 0.1%          |
| Fall from tree  | 1            | 0.1%          |
| <b>All</b>  | <b>1,912</b> | <b>100.0%</b> |

The Montana unintentional fall death rate remained higher than that of the U.S. from 2014-2023. Fall deaths in Montana remained level from 2014 to 2018 and then increased to a peak of 17.1 per 100k residents in 2021, before decreasing to 14.8 in 2023. The 2023 rate (14.8 per 100k) was not statistically different than in 2014 (11.7 per 100k) (Figure 9, Table 8).

Fall deaths were slightly higher among males, and highest among people aged 65 and older. Fall deaths did not vary by county of residence grouping (Figure 10).

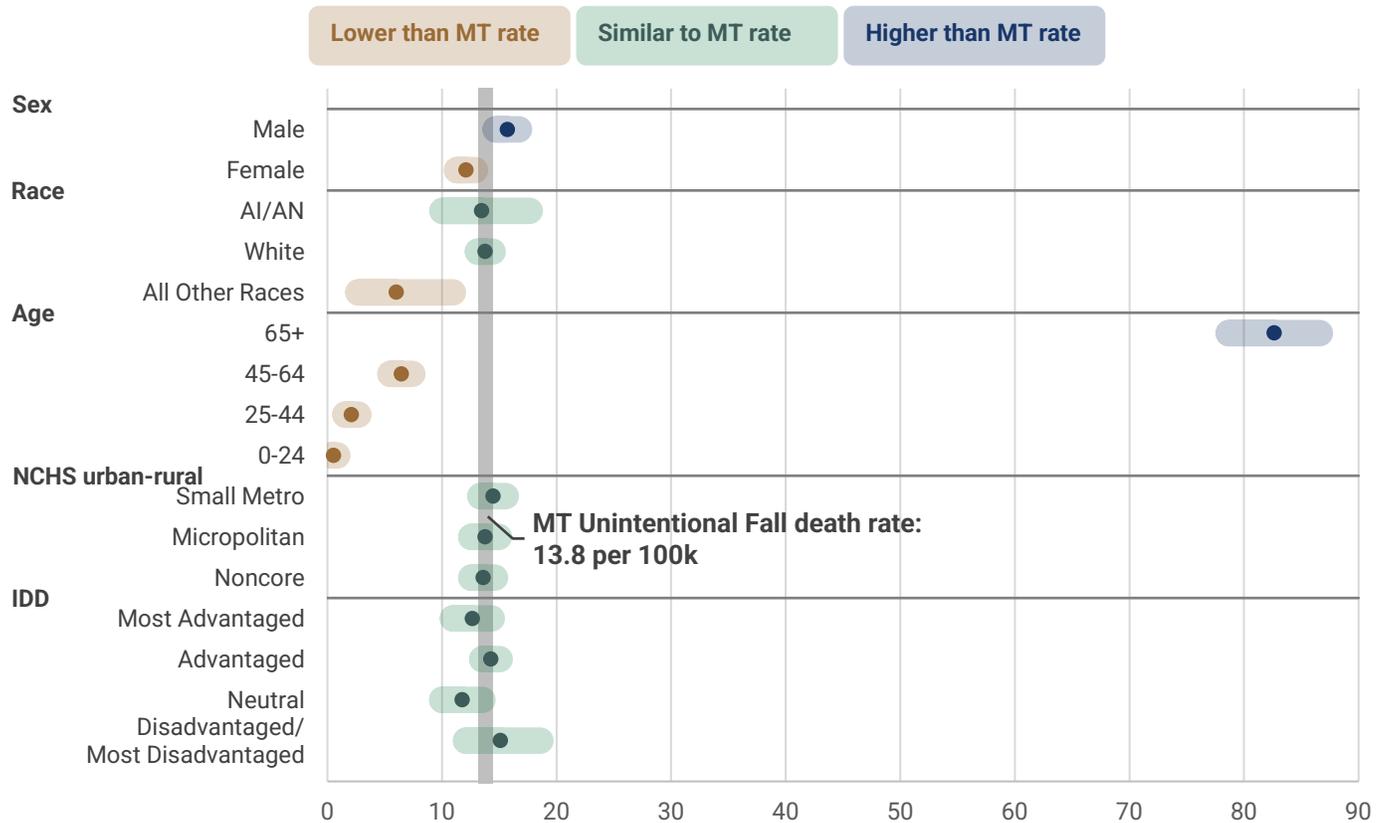


**Figure 9.** U.S. and Montana age-adjusted unintentional fall injury death rates per 100,000 residents, 2014-2023



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 10.** Unintentional fall injury death rate by demographics per 100,000 residents, 2014-2023



Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>



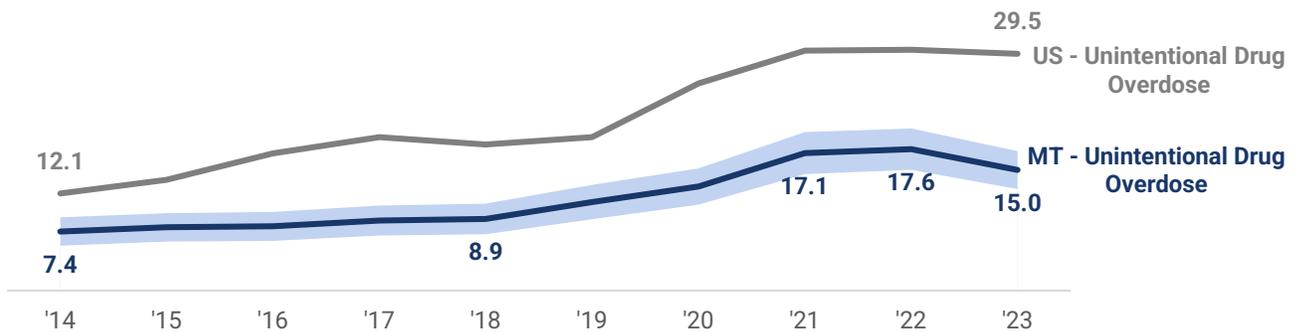
### Unintentional Drug Overdose

Unintentional drug overdose refers to deaths caused by the ingestion or exposure to drugs, whether prescription, over-the-counter, or illicit. It does not include alcohol or other substances like chemicals, gases, or toxins that are not drugs. An unintentional fatal overdose may occur even when a drug was taken intentionally, due to substance misuse, dosing errors, or unforeseen interactions.

From 2014-2023 the Montana unintentional drug overdose death rate was lower than the U.S. rate, but both followed a similar increasing trend which recently started to stabilize (**Figure 11, Table 8**). The increases seen since 2020 have been driven by fentanyl, methamphetamine, and polydrug use.<sup>8</sup>

Unintentional drug overdose deaths were higher among males, AI/AN people, people aged 25-64, and residents of DMD counties (**Figure 12**).

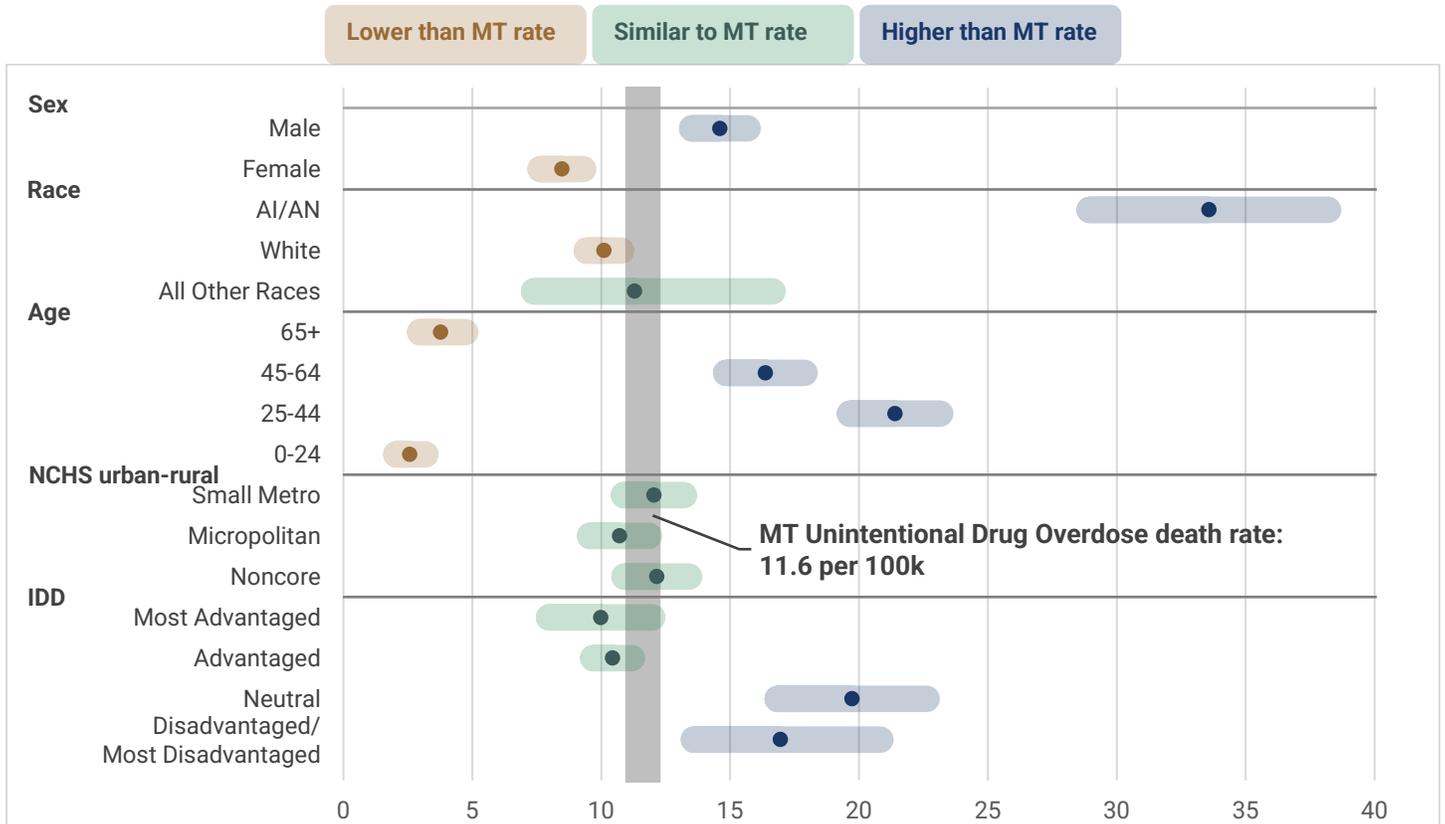
**Figure 11.** U.S. and Montana age-adjusted unintentional drug overdose death rates per 100,000 residents, 2014-2023



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>



**Figure 12. Unintentional drug overdose death rate by demographics per 100,000 residents, 2014-2023**



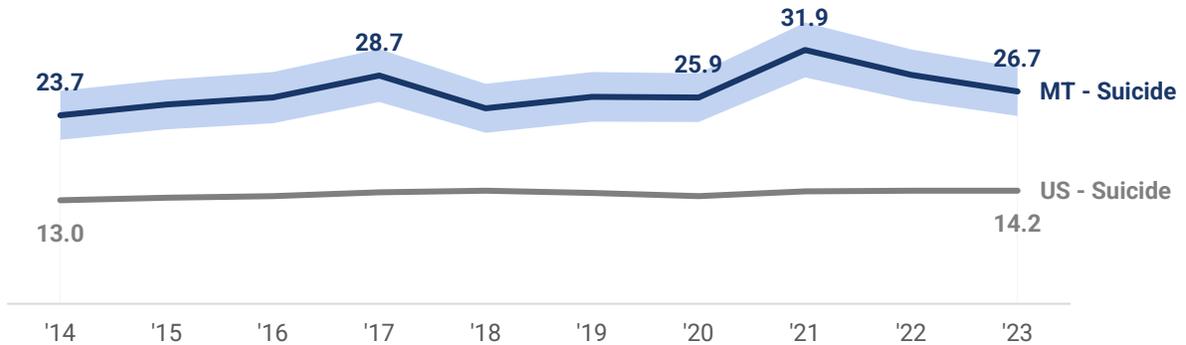
Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>

### Suicide Trends

About three in ten injury deaths in the past ten years were suicides (28.0%). The ten-year AAR due to suicide was 26.8 per 100k. **Figure 13** shows suicide trends from 2014-2023 in the U.S. and Montana, which were primarily driven by firearm-related injuries (N=1,883), suffocation/asphyxiation (N=603), and drug overdoses (N=215). **Table 9** and **Table 10** show suicide rates and counts by demographics and county of residence.

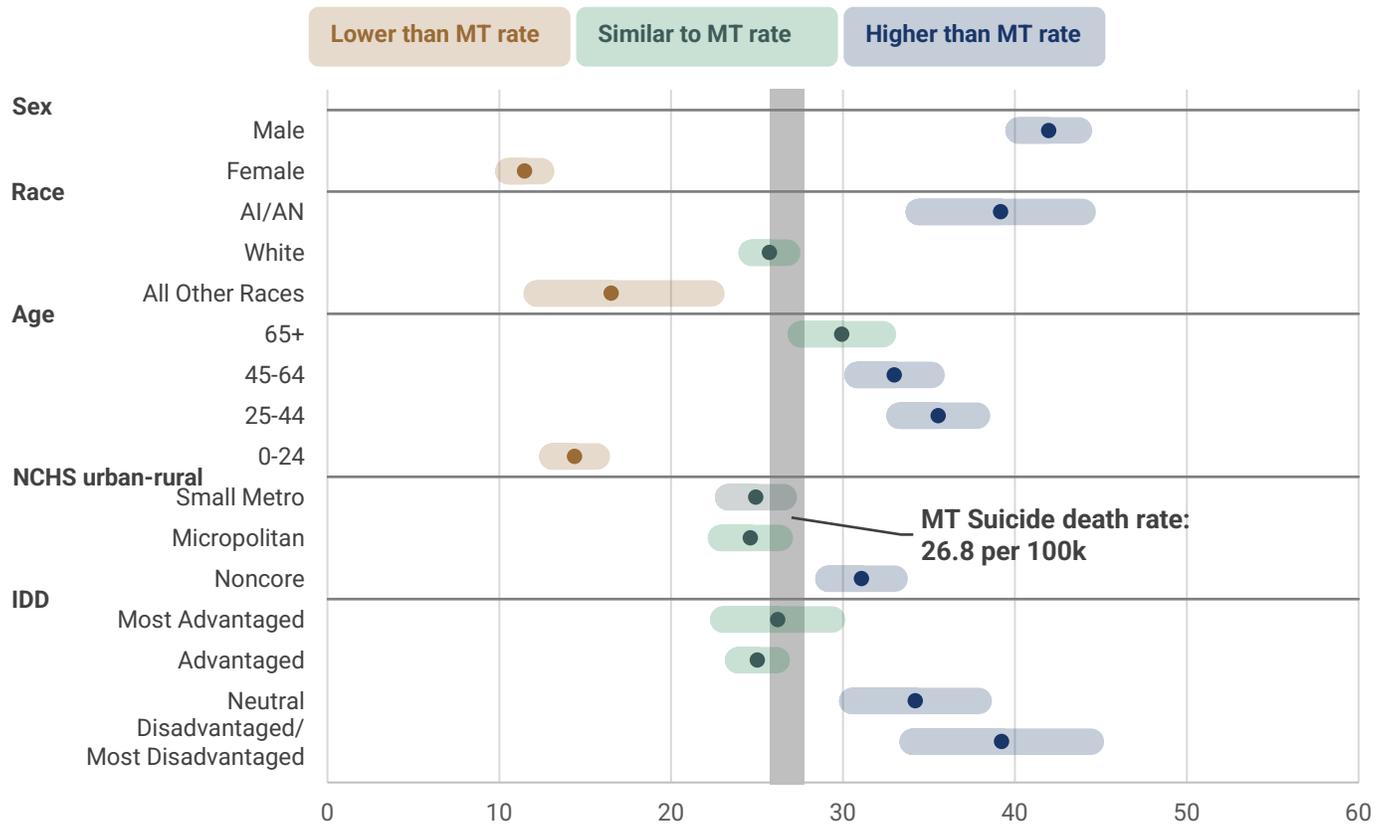
Suicides were four times higher among males, and highest among people aged 25-44. People aged 65 and older were the most likely to use a firearm and least likely to use suffocation compared to other age groups. AI/AN Montanans had the highest suicide rate compared to white and other races. Among white decedents 67% were due to firearms and 17% were due to suffocation, while among AI/AN decedents, 38% were due to firearms and 52% were due to suffocation. Residents of rural counties and residents of neutral and DMD counties also had higher rates of suicide compared to residents of other counties (**Figure 14**).

**Figure 13. U.S. and Montana age-adjusted suicide rates per 100,000 residents, 2014-2023**



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 14. Suicide rate by demographics per 100,000 residents, 2014-2023**

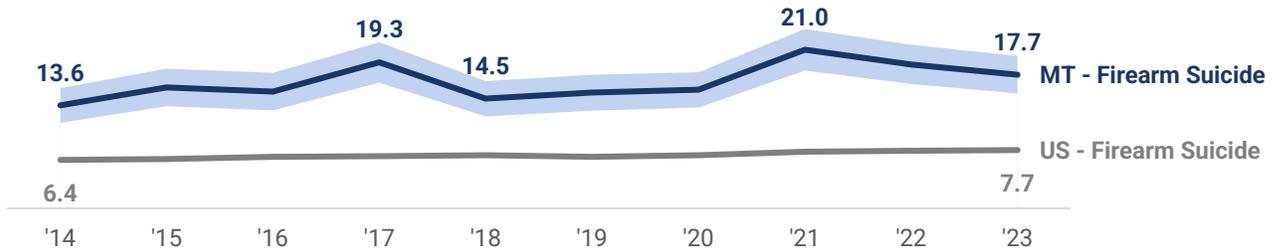


Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>

### Suicide due to Firearms

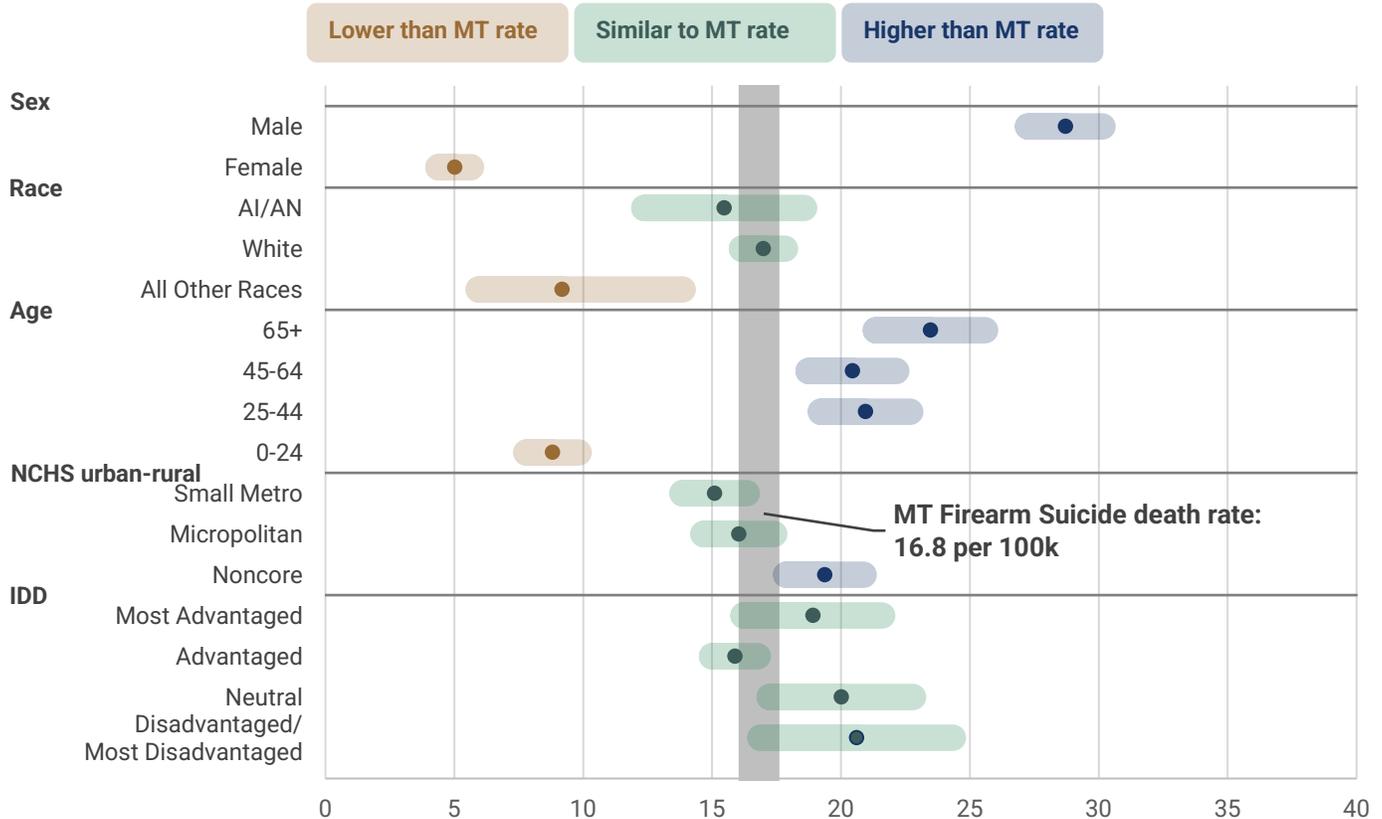
A firearm suicide is a self-inflicted fatal gunshot wound or penetrating injury from a weapon that uses a powder charge to fire a projectile including handguns, rifles, and shotguns. Rifle pellets, rubber bullets, air guns, and BB guns are also included. Montana's firearm suicide rate remained over twice as high as the U.S. from 2014-2023, increasing to a peak of 21.0 per 100k residents in 2021 (**Figure 15, Table 8**). Firearm suicide deaths were higher among males, people aged 65 and older, and residents of rural counties (**Figure 16**).

**Figure 15.** U.S. and Montana age-adjusted firearm suicide rates per 100,000 residents, 2014-2023



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 16.** Firearm suicide rate by demographics per 100,000 residents, 2014-2023



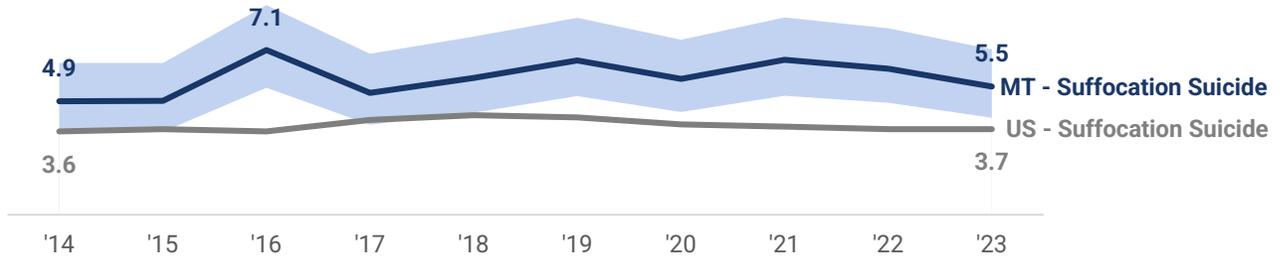
Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>

### Suicide due to Suffocation

Suicide by suffocation includes hanging, smothering, and strangulation. From 2014-2023, Montana's suffocation suicide rate was higher than the U.S. rate, and remained statistically stable (**Figure 17, Table 8**).

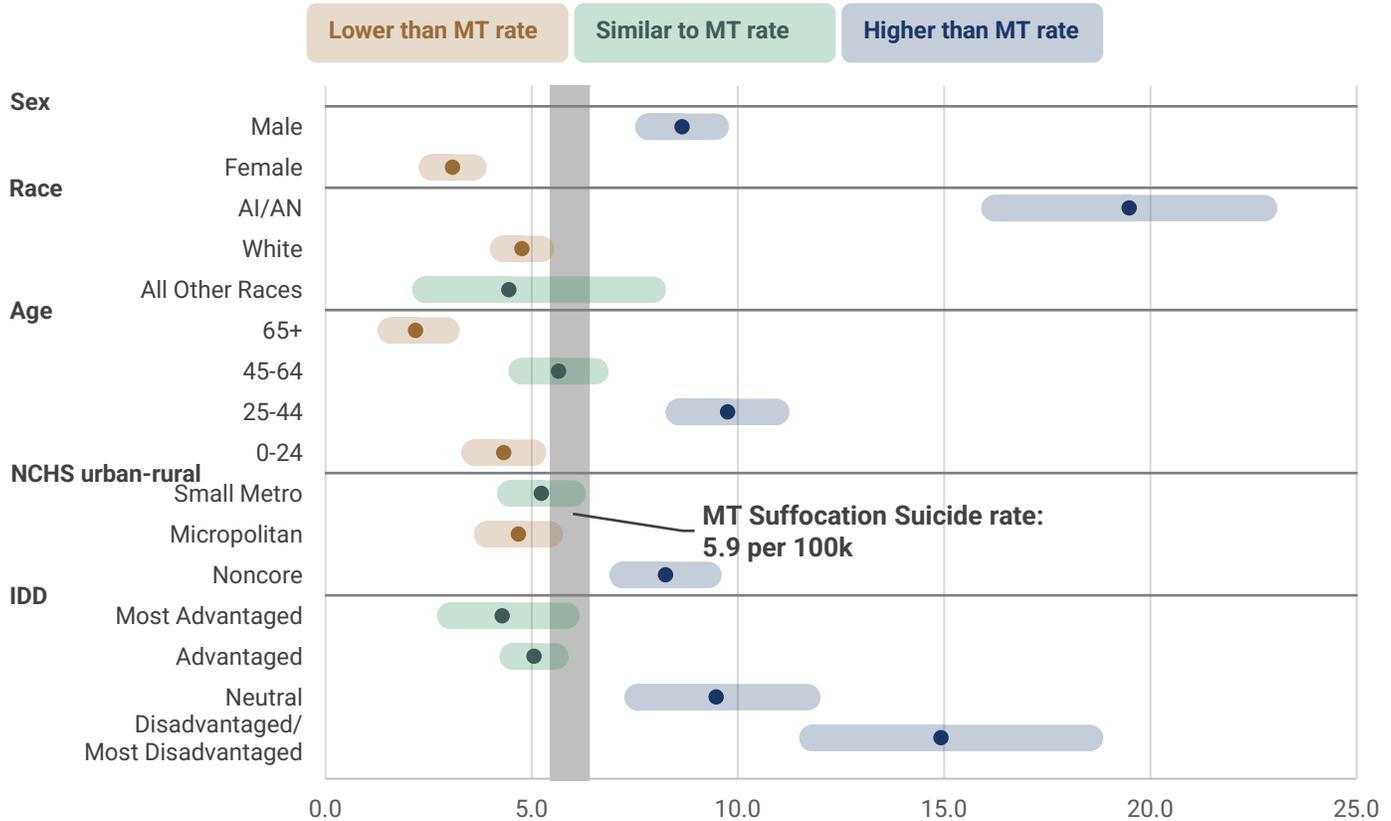
Suffocation suicide deaths were higher among males, AI/AN people, people aged 25-44, residents of rural counties, and residents of neutral and DMD counties (**Figure 18**).

**Figure 17.** U.S. and Montana age-adjusted suffocation suicide rates per 100,000 residents, 2014-2023



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 18.** Suffocation suicide rate by demographics per 100,000 residents, 2014-2023



Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>

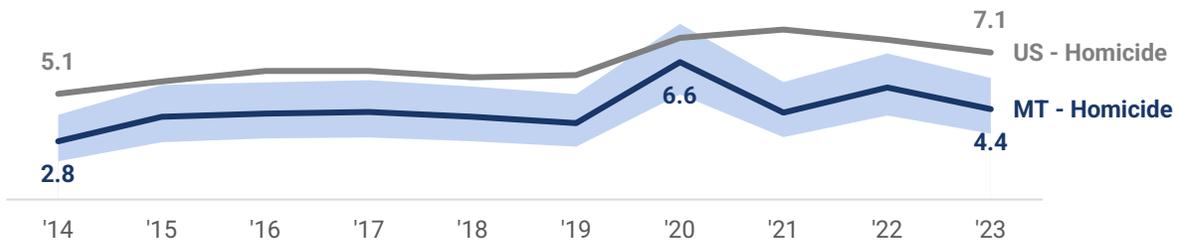


## Homicide Trends

Homicide results from the intentional use of force or power against another person. It includes assault, neglect, abandonment, maltreatment/abuse, and terrorism but does not include legal intervention deaths due to law enforcement acting in the line of duty or deaths due to operations of war.

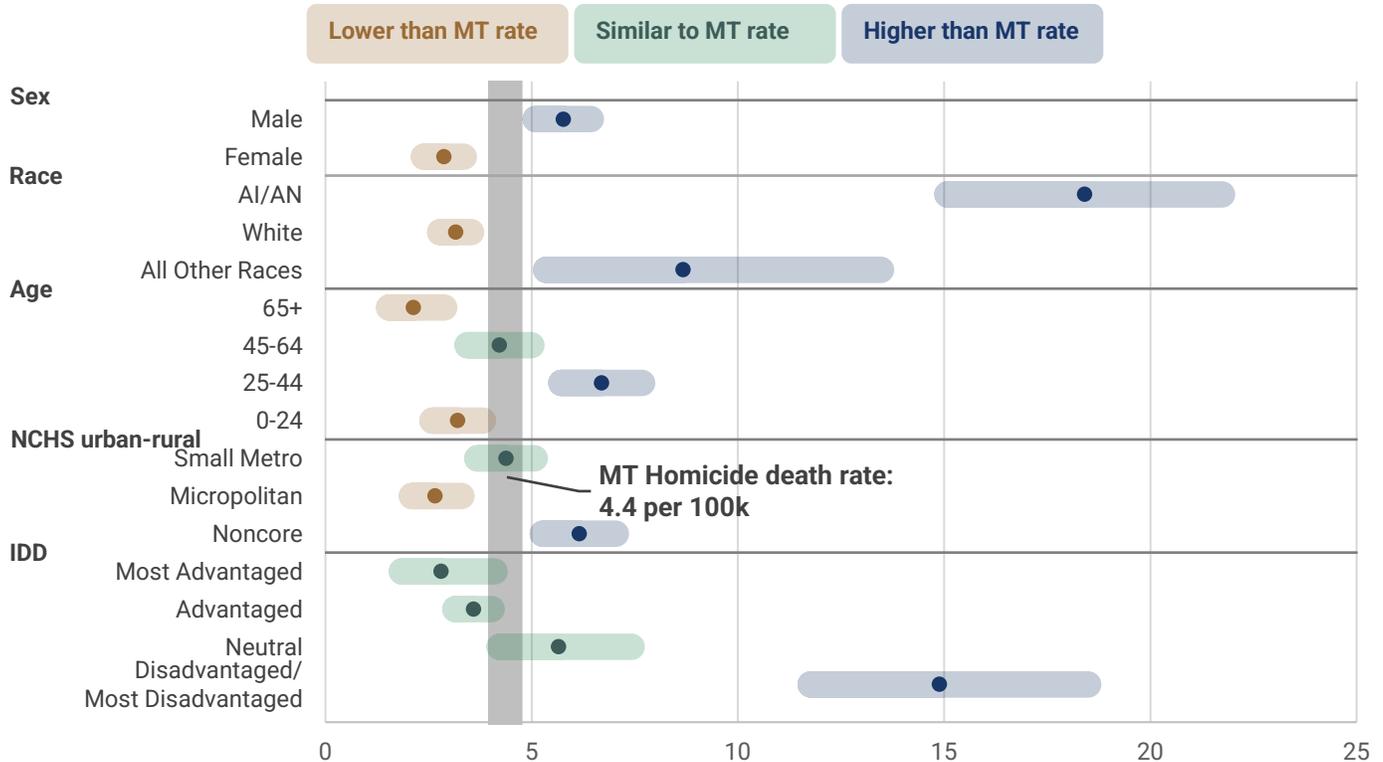
From 2014-2023 the Montana AAR due to homicide was 4.4 per 100k. **Figure 19** shows homicide trends from 2014-2023 in the U.S. and Montana. The Montana homicide rate was consistently lower than the U.S., primarily driven by firearms (N=247) and cut/pierce (N=63). Homicides were higher among males, non-white Montanans, people aged 25-44, and residents of rural and DMD counties (**Figure 20**).

**Figure 19.** U.S. and Montana age-adjusted homicide rates per 100,000 residents, 2014-2023



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 20.** Homicide rate by demographics per 100,000 residents, 2014-2023



Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>



## TBI Trends

A traumatic brain injury, or TBI, is an injury that affects how the brain works. TBIs can be caused by a bump, blow, or jolt to the head, or by a penetrating injury such as a gunshot. The majority of fatal TBIs in Montana were caused by firearms, followed by falls and transportation-related injuries (**Table 4**).

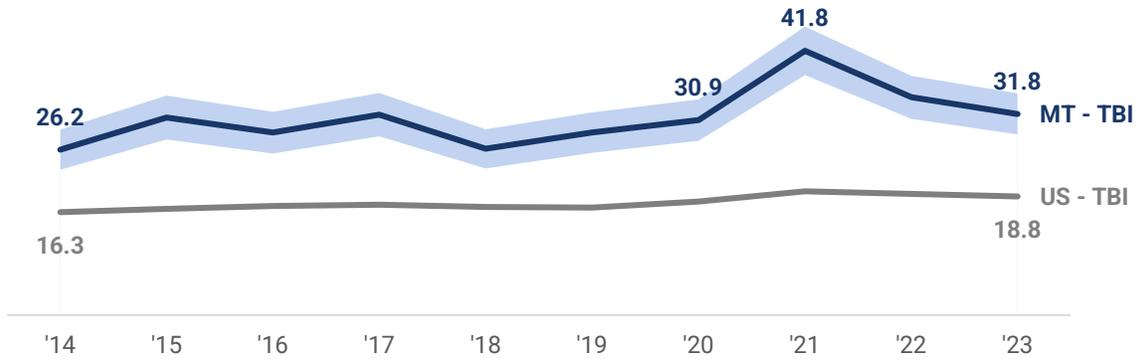
Montana’s TBI-related death rate remained higher than the U.S. from 2014-2023. TBI deaths in Montana sharply increased in 2021 to a peak of 41.8 per 100,00 residents (**Figure 21, Table 8**).

TBI deaths were higher among males, AI/AN people, people aged 65 and older, residents of rural counties, and residents of DMD counties (**Figure 22**).

**Table 4. TBI by mechanism and intent of injury, 2014-2023**

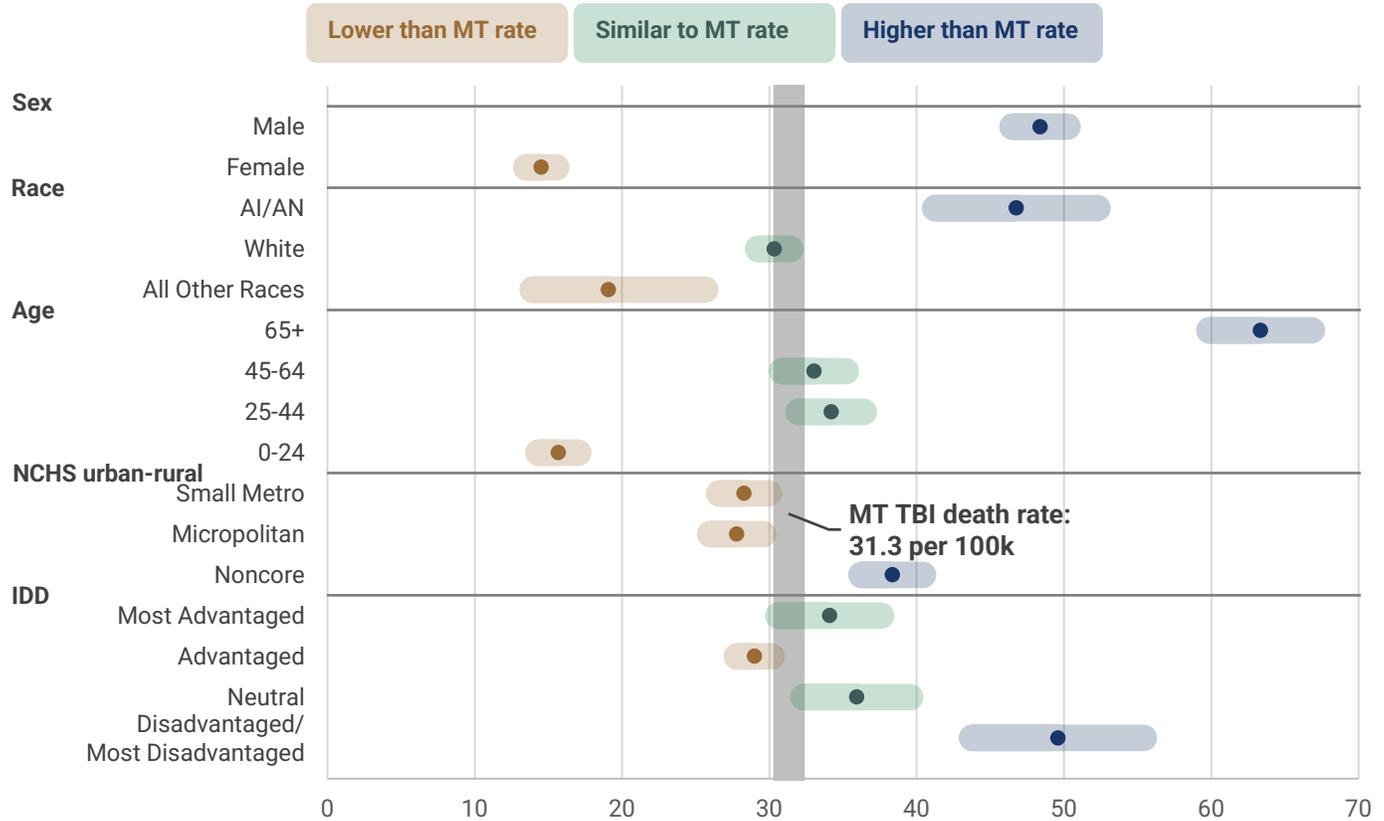
| Mechanism of Injury   | Unintentional | Suicide/<br>Self-harm | Homicide/<br>Assault | Other     | All          | %             |
|-----------------------|---------------|-----------------------|----------------------|-----------|--------------|---------------|
| Firearm               | 17            | 1,648                 | 110                  | 28        | 1,803        | 49.9%         |
| Fall                  | 788           | 6                     | 0                    | 1         | 795          | 22.0%         |
| Transportation (All)  | 739           | 3                     | 2                    | 1         | 745          | 20.6%         |
| Unspecified           | 71            | 1                     | 21                   | 17        | 110          | 3.0%          |
| Other Specified       | 54            | 9                     | 11                   | 9         | 83           | 2.3%          |
| Struck By/Against     | 12            | 0                     | 12                   | 0         | 24           | 0.7%          |
| Poisoning             | 8             | 3                     | 0                    | 0         | 11           | 0.3%          |
| Cut/Pierce            | 3             | 2                     | 6                    | 0         | 11           | 0.3%          |
| Natural/Environmental | 10            | 0                     | 0                    | 0         | 10           | 0.3%          |
| Machinery             | 9             | 0                     | 0                    | 0         | 9            | 0.2%          |
| Drowning/Submersion   | 5             | 1                     | 0                    | 0         | 6            | 0.2%          |
| Suffocation           | 4             | 0                     | 0                    | 0         | 4            | 0.1%          |
| <b>All</b>            | <b>1,720</b>  | <b>1,673</b>          | <b>162</b>           | <b>56</b> | <b>3,611</b> | <b>100.0%</b> |

**Figure 21. U.S. and Montana age-adjusted TBI death rates per 100,000 residents, 2014-2023**



Notes: Shaded areas around the MT estimates represent the 95% confidence intervals. MT rates are labeled at significant trend change points (See Table 8 for joinpoint regression results). Data source: MT Vital Statistics<sup>2</sup>, CDC Wonder<sup>3</sup>

**Figure 22. TBI death rate by demographics per 100,000 residents, 2014-2023**



Notes: Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted except for rates by age group. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>



## Demographics

### Age

Injury mortality patterns vary greatly by age. Overall, the age-specific all injury death rate is highest (178.7 per 100k) among people aged 65+. This is primarily driven by fall-related deaths which are over 12 times higher among this age group than any other (**Figure 10**). The all-injury death rate among people aged 0-24 is the lowest at 41.0 per 100k. Although this is the lowest death rate relative to other age groups, it's important to note that injury is the leading cause of death among Montanans aged 0-24 years, as well as 25-44 years.<sup>1</sup>

**Table 5** shows the top five causes of fatal injury by age group. Among Montanans under age 45, motor vehicle crashes are the primary mechanism of fatal injuries, while suicide by firearm is most common among those aged 45-64, and unintentional falls are most common for people 65 and older. Death certificates listing an injury death due to unspecified causes are by far the most common among decedents aged 65 and older.

**Table 5. Top five causes of fatal injury by age group, 2014-2023**

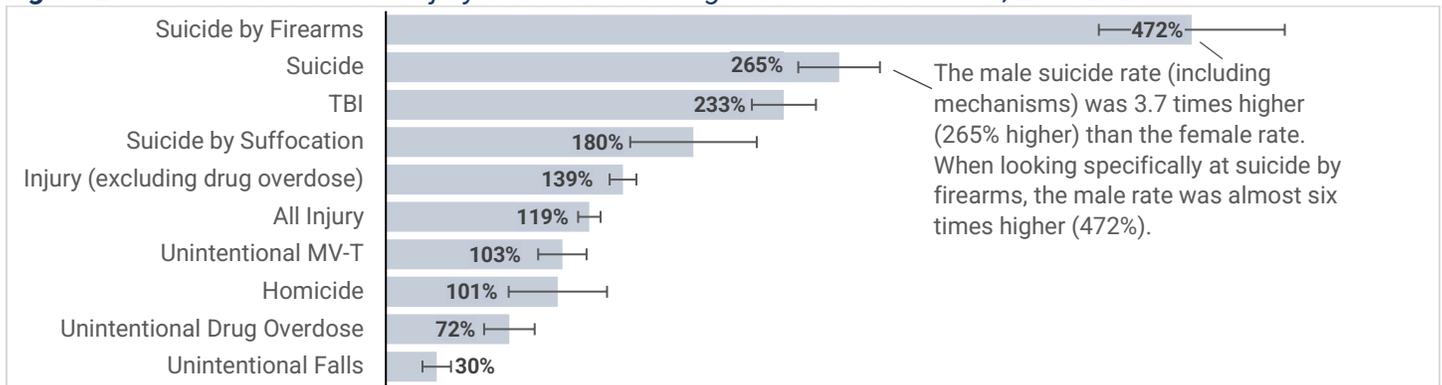
| Cause of injury             | Age-specific rate per 100k residents | (95% Confidence Interval) | N    |
|-----------------------------|--------------------------------------|---------------------------|------|
| <b>0-24 years</b>           |                                      |                           |      |
| Unintentional MVT           | 13.5                                 | (12.3-14.8)               | 447  |
| Suicide by Firearm          | 8.8                                  | (7.8-9.8)                 | 291  |
| Suicide by Suffocation      | 4.3                                  | (3.6-5.0)                 | 143  |
| Homicide                    | 3.2                                  | (2.6-3.8)                 | 106  |
| Unintentional Drug Overdose | 2.6                                  | (2.1-3.2)                 | 85   |
| <b>25-44 years</b>          |                                      |                           |      |
| Unintentional MVT           | 23.2                                 | (21.4-25.0)               | 623  |
| Unintentional Drug Overdose | 21.4                                 | (19.7-23.2)               | 575  |
| Suicide by Firearm          | 21.0                                 | (19.2-22.7)               | 563  |
| Suicide by Suffocation      | 9.8                                  | (8.6-10.9)                | 262  |
| Homicide                    | 6.7                                  | (5.7-7.7)                 | 180  |
| <b>45-64 years</b>          |                                      |                           |      |
| Suicide by Firearm          | 20.4                                 | (18.7-22.1)               | 557  |
| Unintentional MVT           | 18.7                                 | (17.1-20.3)               | 510  |
| Unintentional Drug Overdose | 16.4                                 | (14.9-17.9)               | 446  |
| Unintentional Falls         | 6.5                                  | (5.5-7.4)                 | 176  |
| Suicide by Suffocation      | 5.7                                  | (4.8-6.5)                 | 154  |
| <b>65+ years</b>            |                                      |                           |      |
| Unintentional Falls         | 82.7                                 | (78.7-86.6)               | 1662 |
| Suicide by Firearm          | 23.5                                 | (21.4-25.6)               | 472  |
| Unintentional MVT           | 17.4                                 | (15.6-19.2)               | 350  |
| Unspecified Cause of Injury | 12.5                                 | (10.9-14.0)               | 251  |
| Unintentional Suffocation   | 9.2                                  | (7.9-10.5)                | 185  |



## Sex

The injury death rate among males (126.0 per 100k) was over twice as high as the rate among females (57.5 per 100k). This can also be stated as the percent difference – males had a 119% higher injury death rate than females. **Figure 23** shows that injury mortality was consistently higher among males than females for every injury indicator in this report by various amounts. The largest difference was seen for suicide by firearms where the male death rate was 472% higher than female (almost six times higher). By comparison, males had 30% higher death rate than females when looking at unintentional falls.

**Figure 23. Percent difference in injury death rates among males versus females, 2014-2023**

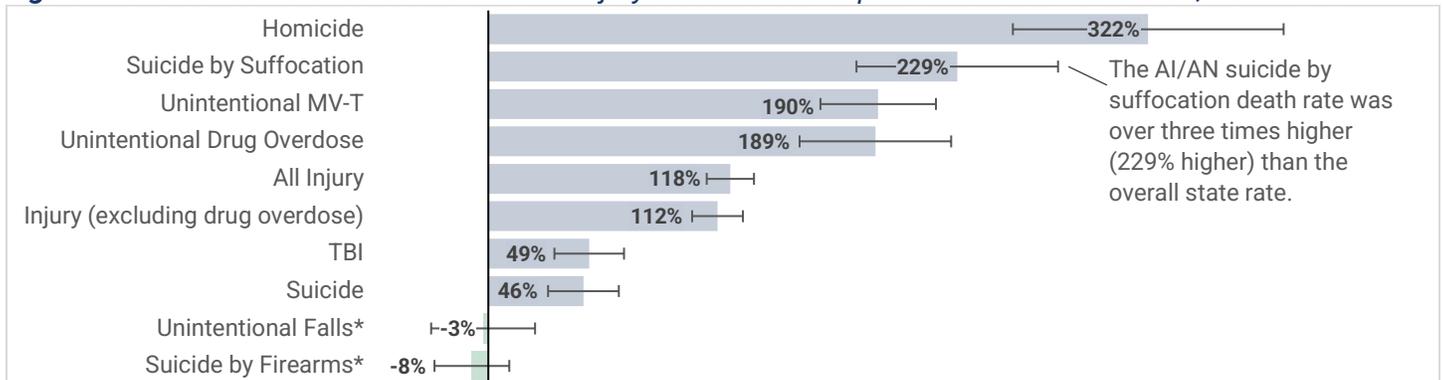


Notes: Error bars represent 95% confidence intervals of the AAR rate ratios.<sup>9</sup> (See Table 9 for rate data). MT Data: MT Vital Statistics<sup>2</sup>

## Race

American Indian/Alaska Native residents make up about 7% of the population in Montana and experience disproportionately higher rates of injury-related death. **Table 11** and **Table 12** show rates and counts of injury among AI/AN residents of counties that correspond with Montana American Indian reservations. **Table 13** and **Table 14** show rates and counts for white residents of the same counties. **Figure 24** shows that the injury death rate among AI/AN residents (200.4 per 100k) was over two times higher (118% higher) than the overall state rate (83.6 per 100k). The largest difference was seen for homicide where AI/AN resident death rate was 322% higher (over four times higher) than the state overall, while there was no difference for unintentional falls and suicides by firearm.

**Figure 24. Percent difference between AI/AN injury death rates compared with the state overall, 2014-2023**



Notes: Error bars represent 95% confidence intervals of the AAR rate ratios.<sup>9</sup> (See Table 9 for rate data). MT Data: MT Vital Statistics<sup>2</sup>



## Geography

### County of Residence

Place of residence influences health in many ways, including health care access, information access, socioeconomic status, housing availability, and more. In this report, county of residence data is presented for individual counties, and counties are also grouped by the NCHS 2013 urban-rural classification scheme<sup>4</sup>, and the 2020 IDD<sup>5</sup>. **Figure 27** shows these groupings on a map and *Appendix B. County Properties* lists them in a table.

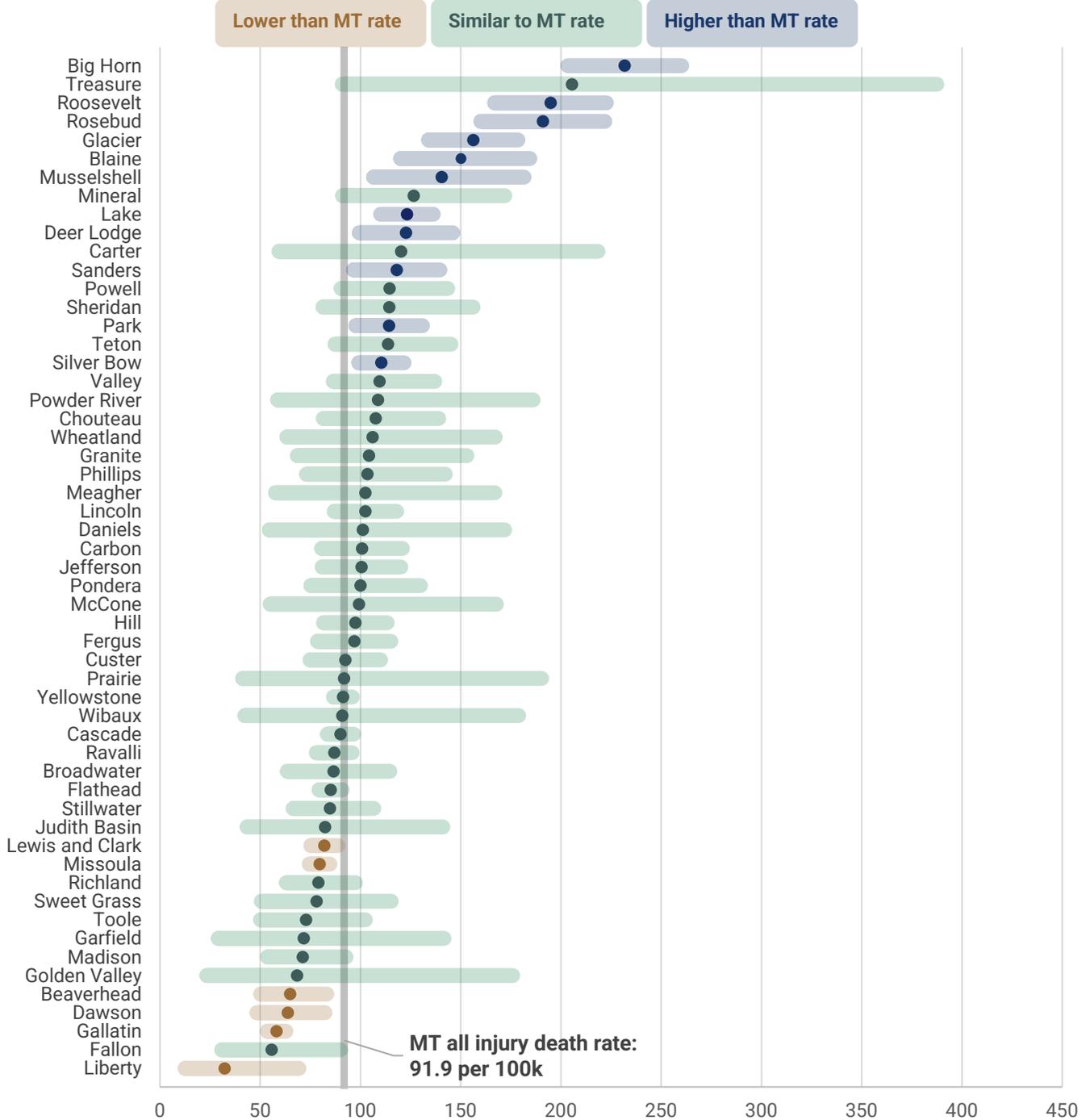
55 of 56 counties had sufficient counts ( $N \geq 5$ ) of injury-related deaths from 2014-2023 to calculate a rate. Big Horn County had the highest injury death rate at 231.8 per 100k residents, while Liberty County had the lowest injury death rate at 32.2 per 100k residents (**Figure 25**). Petroleum County only had two deaths, so the rate was suppressed. **Figure 26** shows maps with age-adjusted death rates for all injury, injury excluding drug overdose, and unintentional drug overdose.

The urban-rural scheme groups all U.S. counties into six levels of urbanicity (large central metro – large fringe metro – medium metro – small metro – micropolitan – noncore). In Montana, small metro are the most urban counties while noncore are the most rural counties. About 34% of Montana's population reside in noncore counties. Noncore counties had higher rates of injury compared to the state overall for most of the injury indicators in this report (**Figure 28**). The largest difference was seen for unintentional MVT where the noncore county death rate (27.6 per 100k) was 1.5 times higher (55% higher) than the overall state rate (17.8 per 100k). Death rates due to unintentional falls and unintentional drug overdoses did not show variation by county of residence NCHS urban-rural category.

The IDD, developed by the University of Michigan, uses a composite measure of poverty, life expectancy, low birthweight rate, and social mobility score to rank all U.S. counties and the 500 most populated cities against each other on the same scale (most advantaged – advantaged – neutral – disadvantaged – most disadvantaged). For the purposes of this report, disadvantaged & most disadvantaged are grouped together (DMD) with 6% of the Montana population residing in DMD counties. Residents of DMD counties had higher rates of injury compared to the state overall for most of the injury indicators in this report (**Figure 29**). The largest difference was seen for homicide where the DMD county death rate (14.9 per 100k) was almost 3.5 times higher (241% higher) than the overall state rate. Unintentional falls and suicides by firearm were not different based on county of residence IDD category. There are notable similarities between **Figure 29** and **Figure 24** suggesting a relationship between IDD and race.

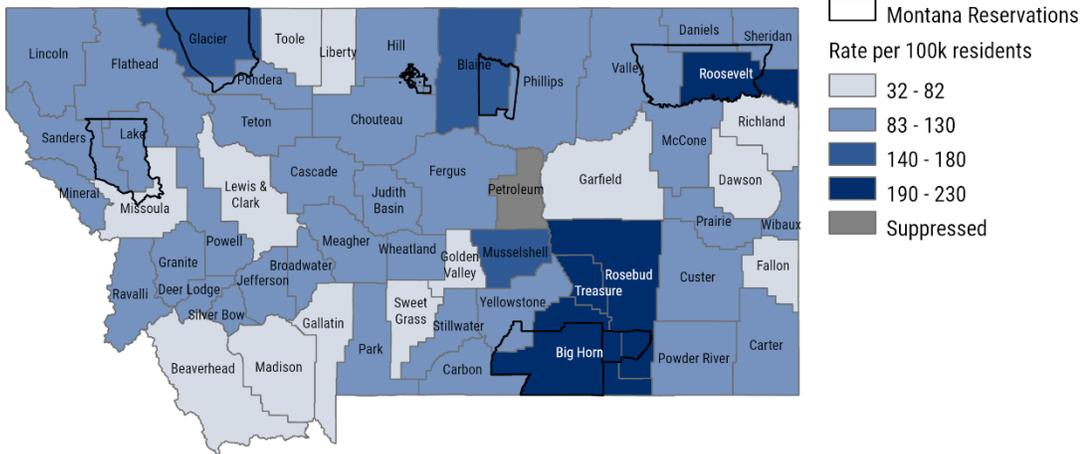


Figure 25. All injury death rates by county, 2014-2023

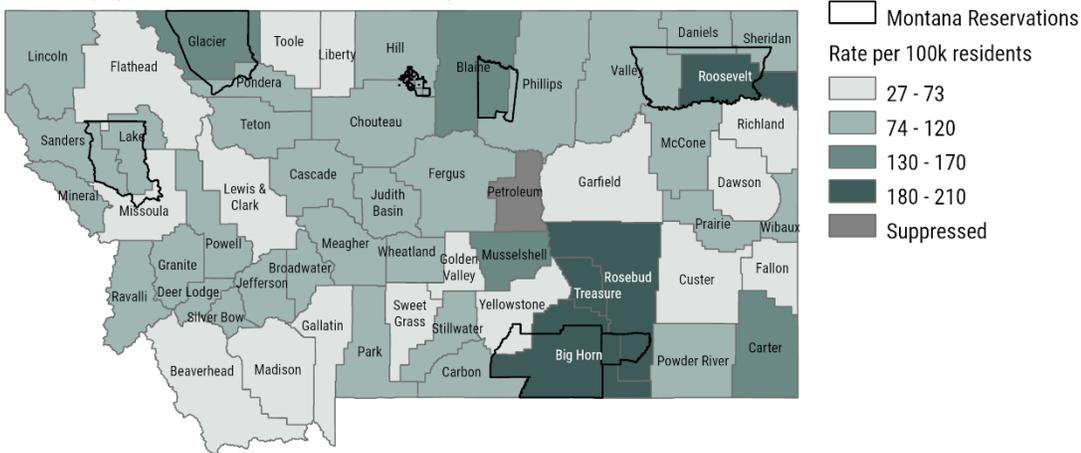


Notes: Rate for Petroleum County suppressed due to N<5. Shaded bands around points (rates) represent 95% confidence intervals. All rates are age-adjusted. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>

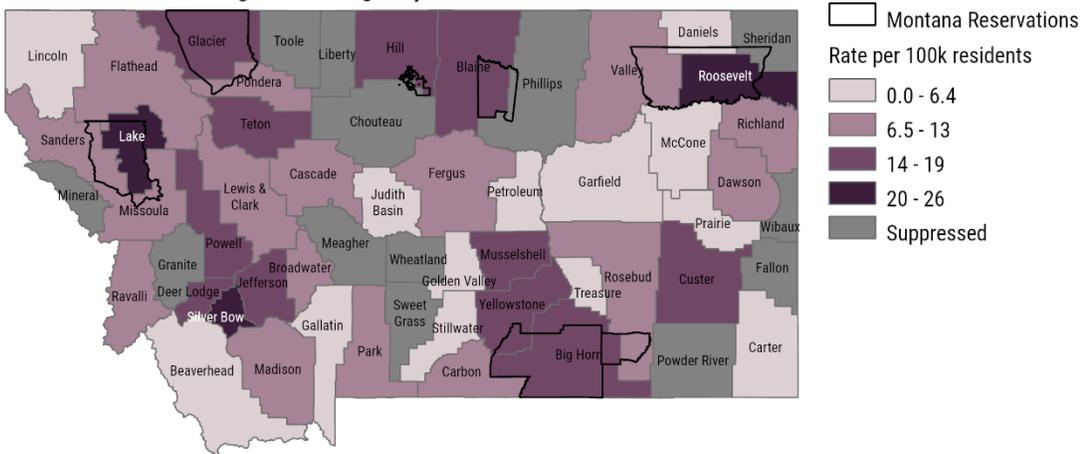
**Figure 26. Maps of age-adjusted injury death rates in Montana, 2014-2023**  
 2014-2023 All Injury Age-Adjusted Death Rate



2014-2023 Injury (excluding drug overdose) Age-Adjusted Death Rate

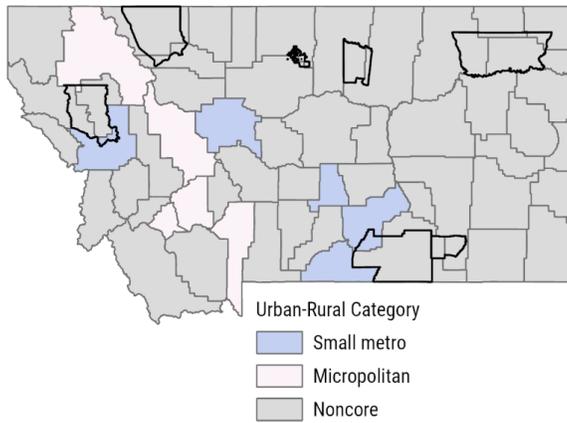


2014-2023 Unintentional Drug Overdose Age-Adjusted Death Rate

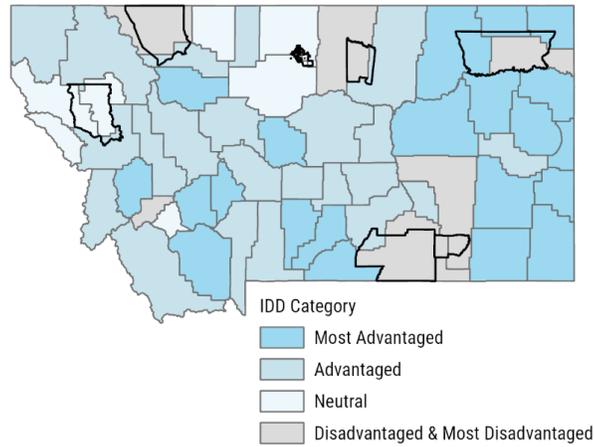


Notes: Rate suppressed if N<5. All rates are age-adjusted. (See Table 9 and Table 10 for rate and count data). MT Data: MT Vital Statistics<sup>2</sup>

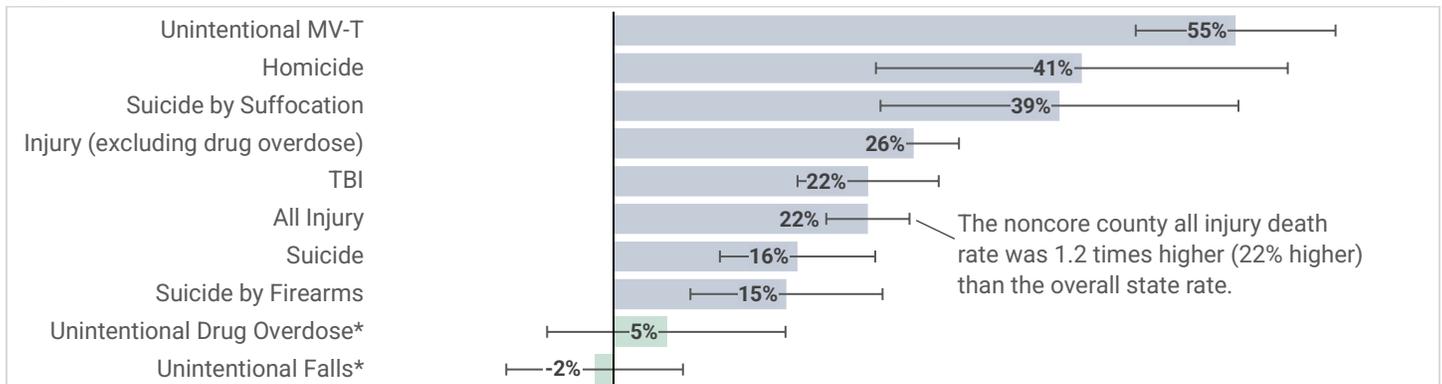
**Figure 27. County of residence groupings**  
NCHS 2013 Urban-Rural Classification Scheme



2020 Index of Deep Disadvantage

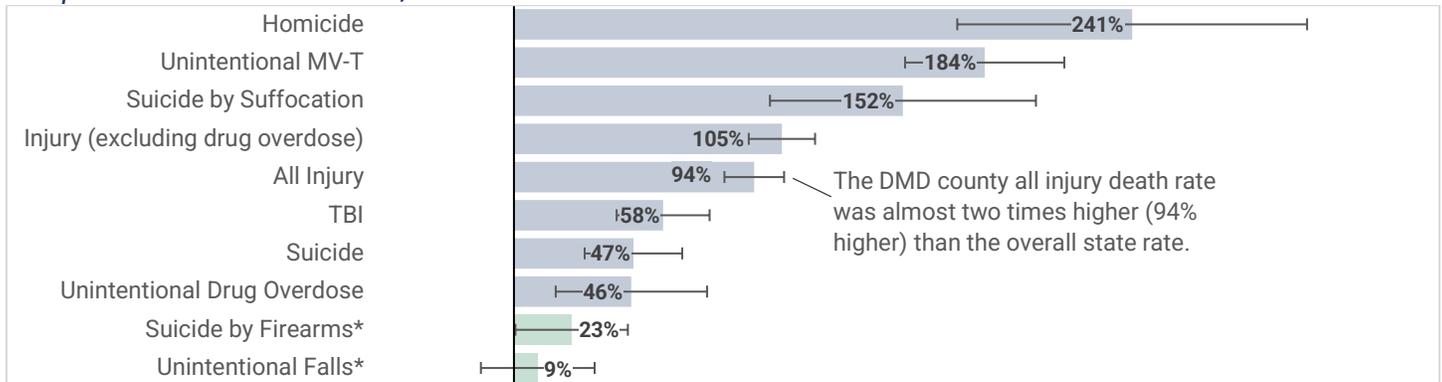


**Figure 28. Percent difference between noncore county injury death rates compared with the state overall, 2014-2023**



Notes: Error bars represent 95% confidence intervals of the AAR rate ratios.<sup>9</sup> (See Table 9 for rate data). MT Data: MT Vital Statistics<sup>2</sup>

**Figure 29. Percent difference between disadvantaged and most disadvantaged county injury death rates compared with the state overall, 2014-2023**



Notes: Error bars represent 95% confidence intervals of the AAR rate ratios.<sup>9</sup> (See Table 9 for rate data). MT Data: MT Vital Statistics<sup>2</sup>



## Montana Resident Out of State Deaths

There were 572 injury deaths of Montana residents that occurred out-of-state from 2014-2023. These deaths were included in the analyses of this report.

The most common state of occurrence was Washington with 113 deaths (20%), followed by Idaho (N=75, 13%), Utah (N=48, 8%), and North Dakota (N=42, 7%). **Table 6** shows the most common causes of MT resident injury deaths occurring out-of-state.

**Table 6.** Most common causes of MT resident injury deaths occurring out-of-state, 2014-2023

| Cause of injury                         | N          | %             |
|---|------------|---------------|
| Unintentional MVT                       | 165        | 28.8%         |
| Unintentional drug poisoning (overdose) | 83         | 14.5%         |
| Unintentional fall                      | 72         | 12.6%         |
| Suicide by firearm                      | 56         | 9.8%          |
| Suicide by suffocation                  | 25         | 4.4%          |
| Other injury causes                     | 171        | 29.9%         |
| <b>All</b>                              | <b>572</b> | <b>100.0%</b> |

## Non-resident Deaths in Montana

There were 849 non-resident injury deaths that occurred in Montana from 2014-2023. These deaths were not included in any other sections of this report.

The most common state of residence was Wyoming with 142 deaths (17%), followed by Washington (N=92, 11%), Idaho (N=54, 8%), and California (N=56, 7%). **Table 7** shows the most common causes of nonresident injury deaths occurring in Montana.

**Table 7.** Most common causes of nonresident injury deaths occurring in MT, 2014-2023

| Cause of injury                         | N          | %             |
|---|------------|---------------|
| Unintentional MVT                       | 332        | 39.1%         |
| Unintentional falls                     | 109        | 12.8%         |
| Suicide by firearm                      | 79         | 9.3%          |
| Unintentional drug poisoning (overdose) | 40         | 4.7%          |
| Suicide by suffocation                  | 23         | 2.7%          |
| Other injury causes                     | 266        | 31.3%         |
| <b>Total</b>                            | <b>849</b> | <b>100.0%</b> |

## Discussion

Montana's injury mortality rate has historically been higher than the that of the U.S., but the gap has been closing in recent years due to increases in the national injury death rate driven by fatal drug overdoses. When excluding drug overdoses, the injury death rate in Montana was consistently around 50% higher than the U.S. (Figure 3).

Temporal trends in Montana injury mortality from 2014-2023 follow a similar pattern whether or not drug overdose deaths are considered, remaining relatively stable from 2014 to 2018 and increasing to their highest point in 2021. Since 2021, injury mortality rates have decreased to levels similar to the 2014-2018 time period. Among the injury causes (mechanism and intent) explored in this report, unintentional drug overdose is the only one where the mortality rate in 2023 was significantly higher than it was in 2014. All subcategories reached their highest mortality levels in 2021, except for unintentional drug overdose (2022), suffocation suicide (2016), and homicide (2020). Nationally, studies have shown that the COVID-19 pandemic was associated with an increase in injury mortality, primarily driven by road traffic crashes, homicide/violence, and possibly drug overdose.<sup>7,10,11</sup> In Montana, injury deaths clearly increased in 2020 and 2021 which suggests that the impacts of COVID-19 manifested similarly due to pandemic associated stress, isolation, changing transportation patterns, reduced access to health care, and other behavioral changes.

Injury is the leading cause of death among Montanans under 45 years of age. The leading cause of injury death for all Montanans is motor vehicle traffic deaths, followed by firearm suicides, unintentional falls, and unintentional drug overdoses. This report showed how injury causes affect certain sub-populations differently (Table 2). Males have higher mortality than females within every injury cause explored in this report, and the leading cause of injury death for males is suicide by firearms. AI/AN people and residents of DMD counties have higher mortality than the average Montanan within most of the injury causes explored in this report, except for unintentional falls and suicide by firearms which did not vary by race or IDD. Residents of noncore counties have higher mortality than the average Montanan within any of the injury causes explored in this report, except for unintentional falls and unintentional drug overdose. Older Montanans (aged 65 and older) are most significantly impacted by unintentional falls.

Since most of Montana is classified as noncore (rural), utilizing the IDD helps pinpoint how geographic patterns intersect with broader social determinants of health to influence injury mortality. Residents of Montana's DMD counties (which are all classified as noncore) are disproportionately impacted by injury mortality in conjunction with lower life expectancy, lower infant birth weight, poverty, and lower social mobility.<sup>d</sup>

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<sup>d</sup> Social mobility refers to the ability of individuals or groups to change their income, education, occupation, and overall quality of life. High social mobility means people can improve their social and economic status, regardless of their background, while low social mobility is caused by barriers such as discrimination, inequality, and lack of access to resources that make it harder to achieve change.



## Prevention Resources

Implementation of evidence-based practices can help to address and reduce the burden of injury.

### Motor Vehicle Crash

- Buckle up! Learn about [proper use of seatbelts](#).
- Find the right car seat for your child, install it correctly, and register it with the manufacturer. Find out more [from MDT, including the details of upcoming local car seat inspection opportunities](#) with experts who can help you properly install the right car seat.
- Take the [Car Seat Basics free e-learning course](#) from National Safety Council
- To find a child passenger safety tech or a CPS tech certification training near you, visit the [National CPS Certification website](#).
- Designate a sober driver ahead of time. If you get stuck without a sober ride, call a friend, cab, Uber, or Lyft. Some communities in Montana have “Home Free” programs sponsored by the local tavern association. Avoid alcohol or drugs if you will be operating any form of transportation.
- Do not text and drive. Put your phone out of reach, use an app to block incoming texts or calls, or have someone else text for you. If you are going to use your phone for navigational purposes, make sure that it is mounted to the dashboard.
- Know before you go! Check the [interactive road report map online](#) or dial 511 to get the latest weather-related road conditions, road incidents, construction, and other travel information.

### Falls

- The DPHHS Falls Prevention Program provides several classes including Stepping On, Stay Active & Independent for Life (SAIL), and Tai Chi for Arthritis and Falls Prevention. [Find a class in your community](#).

### Firearm Safety

- [Hunter safety courses](#) are offered through Montana Fish, Wildlife & Parks.
- Many Montana communities offer access to gun locks for free via the school district or sheriff’s office. They can also be [obtained for free via Suicide Awareness Voices of Education](#), a national nonprofit.

### Poisoning and Drug Overdose

- If you are in crisis and want help, please call, text, or chat the Montana Suicide Prevention and Mental Health Crisis Lifeline, 24/7, at 988.
- Visit [www.findtreatment.gov](http://www.findtreatment.gov) to search for substance use and mental health treatment.
- [Information on accessing naloxone](#) for yourself or your organization. Naloxone is also available over-the-counter.





## Stop the Bleed

- Stop the Bleed is a national awareness campaign aiming to empower bystanders to assist injured people following a traumatic event. [Find out more about Stop the Bleed classes in your area](#) and how to get a [Bleeding Control Kit](#).
- For further questions or information on training programs and locating Stop the Bleed instructors across the state, contact Alyssa Johnson at [alyssa.johnson@mt.gov](mailto:alyssa.johnson@mt.gov) or (406) 444-0752.

## Suicide Prevention

- The Montana Suicide Prevention and Mental Health Crisis Lifeline can be reached 24/7 at 988 (call or text.)
- Additional [suicide prevention information and resources](#) are available on DPHHS's website.
- [Access the Montana 2-1-1 website](#) or call 211 to get connected with local mental health services, crisis hotlines, and other resources.

## MT EPIC-TBI

- Information on [preventing TBI](#) can be found on the DPHHS's website.
- Information on the [MT EPIC-TBI program](#) can be found on DPHHS's website.
- For further questions or information on training or locating a MT EPIC-TBI instructor, contact Janet Trethewey at [jtretthewey@mt.gov](mailto:jtretthewey@mt.gov) or (406) 444-0442.



## Appendix A. Analysis Methodology

This report was based on death certificate data from the Montana Office of Vital Records (OVR) and included deaths due to injury among Montana residents (regardless of death location). The information contained on death certificates is limited by the person certifying the event, their access to medical/legal records, autopsy results, and information provided by relatives, friends, or witnesses. Data that OVR receives on Montana residents who die out of state may be incomplete, therefore, numbers and rates reported in this publication may differ slightly from national sources reporting state-level information (such as CDC WONDER).

Ten years (2014 to 2023) of death certificate data were compiled and injury deaths were selected having an ICD-10 underlying cause of death code of V01-Y36, Y85-Y87, Y89, and U01-U03. Decedents with missing age, sex, or county of residence were excluded from the analysis. A total of 10,483 injury deaths were analyzed. The underlying cause code was used to classify injury deaths by mechanism and intent<sup>12</sup>. Details about the injury indicators presented in this report are described in the [Montana Injury Prevention Program: Injury Indicator Definitions](#).<sup>13</sup>

This report presents results as both counts (N) and rates per 100k resident population. NCHS bridged-race population estimates were used for 2014-2020<sup>14</sup> and single race estimates from the Montana Census and Economic Information Center (CEIC) were used for 2021 and later.<sup>15,16</sup> Single race population estimates include a multi-racial category, resulting in a 38% reduction from 2020 to 2021 in the estimated population of Black Montanans, and an 8% reduction for AI/AN Montanans. This prevented the ability to assess trends for race in this report.

All rates are age-adjusted except for rates by age group. Age-adjustment is a statistical process applied to rates of health events that allows populations with different age structures to be compared. Age-adjusted injury mortality rates per 100k resident population were calculated using direct standardization to the 2000 U.S. standard population.<sup>17</sup> Rates were not calculated for events with fewer than five observations. All rates are presented with a 95% CI to convey the uncertainty of the estimated rate.<sup>18</sup> CI's for rates based on counts 100 and greater were calculated using the normal distribution, and CI's for rates based on counts less than 100 were calculated using the chi-squared distribution.<sup>19</sup> A wider CI in relation to the rate itself indicates more uncertainty about the estimate. Age-adjusted rate ratios and associated 95% CIs were calculated using Tiwari's overlap method.<sup>9</sup> Data were analyzed using SAS 9.4.

Statistical significance of trends was assessed using joinpoint weighted least squares regression models and followed guidelines provided by the National Center for Health Statistics (NCHS).<sup>20</sup> A log transformation was applied to the response variable (age-adjusted death rates) and all possible models using zero (linear trend), one, two, or three joinpoints were evaluated, using lowest BIC as the model selection criteria. Statistical significance of trends was tested using an alpha level of 0.05.

Statistical significance of rate ratios were assessed based on the 95% CI, calculated using Tiwari's overlap method for correlated AARs.<sup>9</sup>





# Data Tables

**Table 8. Results of joinpoint regression modelling, 2014-2023**

| Regression model line segments          | Slope  | (95% Confidence Interval) | p-value |
|---|--------|---------------------------|---------|
| <b>All Injury</b>                       |        |                           |         |
| 2014-2015                               | 0.102  | (0.027, 0.177)            | 0.018   |
| 2015-2018                               | -0.039 | (-0.062, -0.015)          | 0.008   |
| 2018-2021                               | 0.102  | (0.081, 0.124)            | 0.000   |
| 2021-2023                               | -0.084 | (-0.118, -0.051)          | 0.001   |
| <b>Injury (excluding drug overdose)</b> |        |                           |         |
| 2014-2015                               | 0.095  | (0.021, 0.168)            | 0.021   |
| 2015-2019                               | -0.017 | (-0.034, 0.000)           | 0.055   |
| 2019-2021                               | 0.125  | (0.093, 0.156)            | 0.000   |
| 2021-2023                               | -0.099 | (-0.134, -0.064)          | 0.001   |
| <b>Unintentional Injury</b>             |        |                           |         |
| 2014-2015                               | 0.072  | (-0.029, 0.174)           | 0.127   |
| 2015-2018                               | -0.043 | (-0.074, -0.011)          | 0.017   |
| 2018-2021                               | 0.127  | (0.099, 0.155)            | 0.000   |
| 2021-2023                               | -0.090 | (-0.134, -0.046)          | 0.003   |
| <b>Unintentional MVT</b>                |        |                           |         |
| 2014-2019                               | -0.038 | (-0.069, -0.007)          | 0.023   |
| 2019-2021                               | 0.162  | (0.090, 0.235)            | 0.002   |
| 2021-2023                               | -0.117 | (-0.199, -0.035)          | 0.013   |
| <b>Unintentional Falls</b>              |        |                           |         |
| 2014-2018                               | 0.003  | (-0.032, 0.037)           | 0.852   |
| 2018-2021                               | 0.100  | (0.059, 0.141)            | 0.001   |
| 2021-2023                               | -0.058 | (-0.124, 0.008)           | 0.076   |
| <b>Unintentional Drug Overdose</b>      |        |                           |         |
| 2014-2018                               | 0.045  | (0.020, 0.070)            | 0.006   |
| 2018-2021                               | 0.211  | (0.183, 0.239)            | 0.000   |
| 2021-2022                               | 0.050  | (-0.026, 0.126)           | 0.153   |
| 2022-2023                               | -0.160 | (-0.243, -0.077)          | 0.004   |
| <b>Suicide</b>                          |        |                           |         |
| 2014-2017                               | 0.047  | (0.000, 0.094)            | 0.051   |
| 2017-2020                               | -0.026 | (-0.071, 0.020)           | 0.205   |
| 2020-2021                               | 0.227  | (0.097, 0.356)            | 0.006   |
| 2021-2023                               | -0.090 | (-0.163, -0.017)          | 0.025   |
| <b>Firearm Suicide</b>                  |        |                           |         |
| 2014-2017                               | 0.103  | (0.012, 0.195)            | 0.034   |
| 2017-2018                               | -0.309 | (-0.548, -0.070)          | 0.021   |
| 2018-2021                               | 0.123  | (0.038, 0.207)            | 0.013   |
| 2021-2023                               | -0.055 | (-0.175, 0.065)           | 0.295   |
| <b>Suffocation Suicide</b>              |        |                           |         |
| 2014-2016                               | 0.151  | (-0.009, 0.311)           | 0.060   |
| 2016-2023                               | -0.007 | (-0.044, 0.031)           | 0.692   |
| <b>Homicide</b>                         |        |                           |         |
| 2014-2020                               | 0.087  | (0.007, 0.168)            | 0.038   |
| 2020-2023                               | -0.058 | (-0.215, 0.098)           | 0.407   |
| <b>TBI</b>                              |        |                           |         |
| 2014-2020                               | 0.008  | (-0.029, 0.044)           | 0.618   |
| 2020-2021                               | 0.318  | (0.124, 0.513)            | 0.007   |
| 2021-2023                               | -0.138 | (-0.256, -0.021)          | 0.028   |

Notes: Joinpoint regression was run with a minimum of zero (linear trend) and maximum of three joinpoints. All possible models were assessed, using lowest BIC value to select the best model. Statistical tests used an overall alpha level of 0.05. MT Data: MT Vital Statistics<sup>2</sup>



**Table 9. Age-adjusted death rates for selected injury indicators per 100,000 residents by demographics and geography, 2014-2023**

|                                      | All Injury          | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide          | Firearm Suicide  | Suffocation Suicide | Homicide         | TBI              |
|--------------------------------------|---------------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|------------------|------------------|---------------------|------------------|------------------|
| <b>Montana Total</b>                 | 91.9 (90.1-93.7)    | 77.3 (75.7-79.0)                 | 57.9 (56.4-59.3)     | 17.8 (17.0-18.6)                    | 13.8 (13.2-14.5)    | 11.6 (10.9-12.3)            | 26.8 (25.8-27.8) | 16.8 (16.0-17.6) | 5.9 (5.4-6.4)       | 4.4 (3.9-4.8)    | 31.3 (30.3-32.4) |
| <b>Sex</b>                           |                     |                                  |                      |                                     |                     |                             |                  |                  |                     |                  |                  |
| Male                                 | 126.0 (123.0-129.1) | 109.0 (106.2-111.8)              | 74.5 (72.1-76.8)     | 23.8 (22.5-25.1)                    | 15.7 (14.7-16.7)    | 14.6 (13.5-15.7)            | 42.0 (40.2-43.7) | 28.7 (27.3-30.1) | 8.7 (7.8-9.5)       | 5.8 (5.1-6.4)    | 48.4 (46.5-50.2) |
| Female                               | 57.5 (55.5-59.5)    | 45.6 (43.8-47.4)                 | 41.2 (39.5-42.9)     | 11.7 (10.7-12.7)                    | 12.1 (11.3-12.9)    | 8.5 (7.6-9.3)               | 11.5 (10.5-12.4) | 5.0 (4.4-5.6)    | 3.1 (2.6-3.6)       | 2.9 (2.4-3.4)    | 14.5 (13.5-15.5) |
| <b>Race</b>                          |                     |                                  |                      |                                     |                     |                             |                  |                  |                     |                  |                  |
| AI/AN                                | 200.4 (189.1-211.7) | 163.9 (153.6-174.1)              | 133.7 (124.3-143.1)  | 51.8 (46.3-57.2)                    | 13.5 (10.1-17.7)    | 33.6 (28.9-38.2)            | 39.2 (34.4-43.9) | 15.5 (12.4-18.6) | 19.5 (16.2-22.8)    | 18.4 (15.1-21.7) | 46.8 (41.3-52.3) |
| White                                | 84.0 (82.2-85.8)    | 71.0 (69.3-72.6)                 | 52.7 (51.2-54.1)     | 15.4 (14.6-16.2)                    | 13.8 (13.1-14.4)    | 10.1 (9.4-10.8)             | 25.7 (24.7-26.8) | 17.0 (16.2-17.8) | 4.8 (4.3-5.2)       | 3.2 (2.8-3.5)    | 30.3 (29.2-31.4) |
| All Other Races                      | 61.0 (51.3-70.6)    | 47.6 (39.1-56.1)                 | 34.2 (26.9-42.7)     | 11.8 (8.0-16.9)                     | 6.0 (2.7-11.0)      | 11.3 (7.4-16.6)             | 16.5 (12.2-22.3) | 9.2 (6.0-13.9)   | 4.4 (2.4-7.9)       | 8.7 (5.4-13.5)   | 19.1 (13.9-25.7) |
| <b>Age</b>                           |                     |                                  |                      |                                     |                     |                             |                  |                  |                     |                  |                  |
| 65+                                  | 178.7 (172.9-184.6) | 172.6 (166.8-178.3)              | 144.7 (139.5-150.0)  | 17.4 (15.6-19.2)                    | 82.7 (78.7-86.6)    | 3.8 (3.0-4.7)               | 29.9 (27.5-32.3) | 23.5 (21.4-25.6) | 2.2 (1.6-2.9)       | 2.1 (1.5-2.9)    | 63.4 (59.9-66.8) |
| 45-64                                | 99.5 (95.8-103.3)   | 77.7 (74.4-81.1)                 | 58.3 (55.4-61.1)     | 18.7 (17.1-20.3)                    | 6.5 (5.5-7.4)       | 16.4 (14.9-17.9)            | 33.0 (30.8-35.2) | 20.4 (18.7-22.1) | 5.7 (4.8-6.5)       | 4.2 (3.4-5.0)    | 33.0 (30.9-35.2) |
| 25-44                                | 105.1 (101.2-109.0) | 80.0 (76.6-83.4)                 | 58.5 (55.6-61.4)     | 23.2 (21.4-25.0)                    | 2.1 (1.6-2.7)       | 21.4 (19.7-23.2)            | 35.5 (33.3-37.8) | 21.0 (19.2-22.7) | 9.8 (8.6-10.9)      | 6.7 (5.7-7.7)    | 34.2 (32.0-36.4) |
| 0-24                                 | 41.0 (38.8-43.2)    | 37.7 (35.6-39.8)                 | 22.2 (20.6-23.8)     | 13.5 (12.3-14.8)                    | 0.5 (0.3-0.9)       | 2.6 (2.1-3.2)               | 14.4 (13.1-15.7) | 8.8 (7.8-9.8)    | 4.3 (3.6-5.0)       | 3.2 (2.6-3.8)    | 15.7 (14.3-17.0) |
| <b>NCHS Rural-Urban</b>              |                     |                                  |                      |                                     |                     |                             |                  |                  |                     |                  |                  |
| Small Metro                          | 87.1 (84.1-90.1)    | 71.2 (68.5-73.8)                 | 53.8 (51.5-56.1)     | 14.3 (13.1-15.5)                    | 14.5 (13.4-15.6)    | 12.0 (10.9-13.2)            | 24.9 (23.3-26.6) | 15.1 (13.9-16.3) | 5.2 (4.5-6.0)       | 4.4 (3.7-5.1)    | 28.3 (26.6-30.0) |
| Micropolitan                         | 77.7 (74.7-80.7)    | 64.8 (62.1-67.5)                 | 48.8 (46.4-51.1)     | 12.5 (11.3-13.7)                    | 13.8 (12.6-15.0)    | 10.7 (9.6-11.9)             | 24.6 (22.9-26.3) | 16.0 (14.7-17.4) | 4.7 (3.9-5.4)       | 2.7 (2.1-3.3)    | 27.8 (26.0-29.6) |
| Noncore                              | 112.4 (108.8-116.0) | 97.7 (94.4-101.1)                | 72.2 (69.3-75.0)     | 27.6 (25.7-29.4)                    | 13.6 (12.6-14.6)    | 12.2 (10.9-13.4)            | 31.1 (29.2-33.0) | 19.4 (17.9-20.9) | 8.2 (7.2-9.3)       | 6.2 (5.3-7.0)    | 38.4 (36.3-40.4) |
| <b>IDD</b>                           |                     |                                  |                      |                                     |                     |                             |                  |                  |                     |                  |                  |
| Most Advantaged                      | 89.9 (84.4-95.5)    | 77.7 (72.6-82.8)                 | 59.4 (55.0-63.8)     | 19.6 (16.9-22.4)                    | 12.7 (11.0-14.3)    | 10.0 (8.0-12.0)             | 26.2 (23.0-29.4) | 18.9 (16.2-21.6) | 4.3 (3.0-5.8)       | 2.8 (1.9-4.1)    | 34.1 (30.6-37.6) |
| Advantaged                           | 83.4 (81.3-85.4)    | 69.8 (68.0-71.7)                 | 52.0 (50.4-53.6)     | 14.6 (13.7-15.5)                    | 14.3 (13.5-15.0)    | 10.4 (9.7-11.2)             | 25.0 (23.9-26.1) | 15.9 (15.0-16.8) | 5.1 (4.5-5.6)       | 3.6 (3.2-4.0)    | 29.0 (27.8-30.2) |
| Neutral                              | 110.6 (104.2-117.1) | 88.4 (82.7-94.1)                 | 68.0 (63.0-72.9)     | 21.7 (18.8-24.6)                    | 11.8 (10.0-13.5)    | 19.7 (16.8-22.6)            | 34.2 (30.5-37.9) | 20.0 (17.2-22.8) | 9.5 (7.6-11.7)      | 5.7 (4.2-7.4)    | 35.9 (32.3-39.6) |
| Disadvantaged/<br>Most disadvantaged | 178.1 (167.0-189.2) | 158.3 (147.8-168.7)              | 116.7 (107.8-125.7)  | 50.6 (44.7-56.5)                    | 15.1 (12.1-18.6)    | 17.0 (13.6-20.8)            | 39.2 (34.1-44.4) | 20.6 (16.9-24.3) | 14.9 (11.8-18.5)    | 14.9 (11.8-18.5) | 49.6 (43.8-55.4) |
| <b>County</b>                        |                     |                                  |                      |                                     |                     |                             |                  |                  |                     |                  |                  |
| Beaverhead                           | 65.0 (50.3-83.2)    | 59.0 (44.8-76.7)                 | 41.3 (30.1-55.9)     | 11.1 (5.1-20.8)                     | 15.3 (9.6-24.1)     | 4.7 (1.2-12.4)              | 21.0 (12.4-33.1) | 13.7 (7.2-24.2)  | ¥                   | ¥                | 22.6 (14.2-34.7) |
| Big Horn                             | 231.8 (203.4-260.2) | 211.7 (184.7-238.8)              | 162.2 (138.4-186.0)  | 96.4 (78.4-114.3)                   | 11.2 (4.7-19.9)     | 16.3 (8.4-26.2)             | 33.0 (22.4-45.3) | 21.9 (13.3-32.5) | 8.5 (3.2-16.0)      | 23.0 (14.1-33.6) | 55.3 (41.5-70.9) |
| Blaine                               | 150.2 (120.1-184.5) | 133.1 (104.2-165.4)              | 87.4 (63.7-114.6)    | 32.3 (18.0-50.0)                    | 17.5 (7.8-31.1)     | 13.8 (3.5-27.6)             | 50.9 (33.0-72.8) | 22.9 (11.2-38.9) | 24.7 (12.0-41.6)    | 9.9 (1.7-22.9)   | 40.7 (24.8-60.6) |
| Broadwater                           | 86.6 (63.6-114.7)   | 75.8 (53.1-102.9)                | 62.3 (42.2-85.9)     | 28.0 (13.6-46.5)                    | 11.5 (4.9-22.7)     | 9.2 (1.4-21.7)              | 22.4 (9.5-39.0)  | 14.9 (4.1-30.2)  | ¥                   | ¥                | 28.7 (15.1-46.0) |
| Carbon                               | 100.8 (80.7-120.9)  | 88.2 (69.3-107.0)                | 57.1 (43.0-73.6)     | 17.5 (9.3-28.8)                     | 11.1 (5.6-19.8)     | 10.8 (4.3-20.1)             | 35.8 (22.7-51.6) | 29.0 (17.2-43.3) | ¥                   | 5.7 (.9-14.1)    | 38.2 (24.9-53.9) |
| Carter                               | 120.3 (59.4-218.5)  | 120.3 (49.6-218.5)               | 75.1 (22.2-155.4)    | ¥                                   | ¥                   | 0                           | ¥                | ¥                | ¥                   | 0                | 58.4 (7.2-132.1) |
| Cascade                              | 90.1 (83.6-96.6)    | 76.3 (70.4-82.2)                 | 55.6 (50.6-60.6)     | 15.2 (12.5-17.9)                    | 16.0 (13.7-18.3)    | 10.4 (8.0-13.1)             | 25.9 (22.3-29.5) | 15.2 (12.4-17.9) | 6.6 (4.8-8.8)       | 4.4 (2.8-6.1)    | 30.3 (26.5-34.0) |
| Chouteau                             | 107.6 (81.6-139.0)  | 96.8 (71.3-125.9)                | 74.5 (52.0-101.7)    | 31.6 (16.0-51.8)                    | 16.9 (8.1-30.7)     | ¥                           | 27.3 (13.3-46.4) | 8.8 (1.9-20.8)   | 16.5 (5.0-32.4)     | ¥                | 32.1 (17.4-51.9) |
| Custer                               | 92.5 (74.9-110.0)   | 72.1 (56.9-89.0)                 | 62.6 (48.5-78.6)     | 13.2 (6.5-21.8)                     | 15.4 (9.1-23.7)     | 15.6 (7.8-25.4)             | 24.9 (15.5-36.4) | 13.1 (6.3-21.8)  | 5.8 (1.1-12.7)      | ¥                | 27.6 (17.9-39.4) |
| Daniels                              | 101.1 (54.6-171.9)  | 90.2 (40.3-155.1)                | 65.4 (24.2-125.8)    | ¥                                   | ¥                   | 0                           | ¥                | ¥                | 0                   | 0                | 40.6 (6.0-93.4)  |
| Dawson                               | 63.7 (48.4-82.3)    | 53.3 (39.2-69.8)                 | 45.1 (31.8-60.9)     | 12.7 (5.5-23.1)                     | 7.5 (3.0-15.2)      | 10.4 (3.0-21.0)             | 15.2 (7.1-26.1)  | 12.8 (5.4-23.0)  | ¥                   | ¥                | 16.2 (8.2-26.7)  |
| Deer Lodge                           | 122.8 (99.5-146.1)  | 101.7 (80.4-122.9)               | 67.6 (51.0-87.4)     | 17.9 (8.7-31.1)                     | 11.3 (5.8-20.6)     | 17.7 (8.8-30.4)             | 43.2 (29.3-60.7) | 28.9 (17.6-44.3) | 8.1 (1.8-19.0)      | 12.0 (3.2-25.2)  | 51.0 (35.3-70.1) |
| Fallon                               | 55.7 (30.9-90.1)    | 51.8 (26.0-85.0)                 | 40.7 (17.5-72.2)     | ¥                                   | 14.0 (1.2-35.0)     | ¥                           | 15.0 (1.4-38.8)  | ¥                | ¥                   | 0                | 26.1 (7.4-52.7)  |
| Fergus                               | 96.9 (78.7-115.2)   | 82.3 (65.9-98.7)                 | 69.7 (54.6-84.8)     | 21.6 (12.3-33.4)                    | 17.2 (11.2-25.5)    | 12.1 (5.0-22.0)             | 20.4 (11.8-31.5) | 14.8 (7.6-24.2)  | 5.6 (.8-12.9)       | ¥                | 34.2 (23.3-47.3) |
| Flathead                             | 85.2 (79.5-90.9)    | 71.2 (66.0-76.4)                 | 54.9 (50.4-59.4)     | 16.5 (13.9-19.1)                    | 12.6 (10.7-14.6)    | 12.5 (10.2-14.8)            | 25.7 (22.5-29.0) | 17.2 (14.6-19.9) | 5.3 (3.8-7.0)       | 3.4 (2.2-4.8)    | 31.5 (28.0-35.0) |
| Gallatin                             | 58.2 (53.6-62.8)    | 51.0 (46.6-55.3)                 | 35.5 (31.8-39.1)     | 9.7 (7.9-11.6)                      | 10.1 (8.1-12.3)     | 5.7 (4.3-7.3)               | 20.2 (17.5-22.9) | 13.7 (11.5-15.9) | 4.1 (2.9-5.4)       | 1.5 (.8-2.5)     | 22.8 (20.0-25.7) |
| Garfield                             | 71.7 (29.1-141.7)   | 71.7 (23.5-141.7)                | 65.9 (19.0-133.0)    | 41.3 (2.4-104.1)                    | ¥                   | 0                           | ¥                | ¥                | 0                   | 0                | ¥                |
| Glacier                              | 156.3 (134.0-178.6) | 134.9 (114.2-155.5)              | 100.5 (82.6-118.4)   | 40.9 (29.6-53.8)                    | 12.2 (5.9-20.6)     | 18.9 (11.2-28.4)            | 36.0 (25.5-48.4) | 14.4 (7.9-22.4)  | 20.1 (12.1-30.0)    | 12.6 (6.1-21.2)  | 39.8 (28.6-52.7) |
| Golden Valley                        | 68.4 (23.5-175.9)   | 68.4 (11.6-175.9)                | ¥                    | ¥                                   | 0                   | 0                           | ¥                | ¥                | ¥                   | ¥                | ¥                |
| Granite                              | 104.2 (68.6-153.1)  | 91.2 (55.3-136.8)                | 65.2 (35.1-106.5)    | 33.8 (10.8-69.1)                    | 10.8 (1.4-33.9)     | ¥                           | 30.4 (9.1-64.5)  | 29.3 (8.0-63.0)  | 0                   | ¥                | 58.0 (29.1-98.3) |
| Hill                                 | 97.5 (81.7-113.3)   | 83.1 (68.6-97.6)                 | 63.4 (51.0-75.7)     | 17.2 (10.9-24.9)                    | 18.9 (12.4-27.0)    | 13.8 (7.6-21.6)             | 27.6 (18.7-38.2) | 11.3 (5.5-18.6)  | 15.5 (8.9-23.7)     | 5.3 (1.5-10.8)   | 29.3 (20.8-39.4) |

|                 | All Injury          | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide          | Firearm Suicide  | Suffocation Suicide | Homicide        | TBI              |
|-----------------|---------------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|------------------|------------------|---------------------|-----------------|------------------|
| Jefferson       | 100.6 (81.0-120.1)  | 85.6 (67.8-103.5)                | 62.2 (47.0-79.8)     | 12.9 (6.0-22.2)                     | 14.9 (8.2-23.8)     | 13.3 (5.8-23.1)             | 35.5 (23.7-49.6) | 21.2 (12.2-32.7) | 7.9 (2.0-16.2)      | ¥               | 43.6 (30.7-59.0) |
| Judith Basin    | 82.3 (43.5-141.1)   | 82.3 (38.9-141.1)                | 57.9 (22.8-107.8)    | ¥                                   | 13.7 (1.6-45.5)     | 0                           | ¥                | ¥                | ¥                   | ¥               | 48.1 (11.1-98.1) |
| Lake            | 123.2 (110.0-136.3) | 95.4 (84.1-106.7)                | 78.1 (67.6-88.5)     | 26.3 (20.1-33.4)                    | 10.2 (7.2-14.0)     | 25.5 (19.1-32.6)            | 36.2 (29.0-43.4) | 21.8 (16.3-27.9) | 9.8 (5.9-14.5)      | 7.4 (4.2-11.4)  | 39.9 (32.5-47.2) |
| Lewis and Clark | 82.0 (75.3-88.7)    | 68.7 (62.7-74.8)                 | 52.0 (46.8-57.2)     | 11.8 (9.1-14.7)                     | 20.3 (17.3-23.3)    | 9.1 (6.8-11.8)              | 24.3 (20.5-28.0) | 15.2 (12.2-18.1) | 3.3 (1.9-5.1)       | 3.2 (1.8-5.0)   | 26.1 (22.3-29.9) |
| Liberty         | 32.2 (12.6-69.3)    | 27.0 (5.8-62.0)                  | 20.7 (3.5-50.9)      | 0                                   | 13.9 (.4-41.4)      | ¥                           | ¥                | ¥                | 0                   | ¥               | 21.2 (1.1-54.3)  |
| Lincoln         | 102.5 (87.0-118.0)  | 94.7 (79.7-109.6)                | 65.0 (52.6-77.3)     | 34.0 (24.3-45.3)                    | 10.5 (6.7-16.0)     | 5.8 (2.2-11.2)              | 29.6 (21.4-39.3) | 22.4 (15.2-31.4) | 3.6 (.8-8.3)        | 5.0 (1.4-10.4)  | 46.7 (36.1-58.9) |
| McCone          | 99.3 (55.1-167.8)   | 99.3 (50.3-167.8)                | 88.6 (42.5-151.3)    | 47.5 (10.1-105.1)                   | 32.6 (7.4-77.0)     | 0                           | ¥                | ¥                | 0                   | 0               | 38.8 (9.0-88.7)  |
| Madison         | 71.2 (53.7-92.8)    | 61.0 (43.9-81.3)                 | 49.5 (34.0-68.2)     | 19.2 (8.4-34.0)                     | 9.7 (4.9-18.5)      | 8.4 (1.7-18.4)              | 19.9 (10.3-32.8) | 16.5 (7.6-28.8)  | ¥                   | ¥               | 34.7 (21.3-51.7) |
| Meagher         | 102.5 (57.7-167.0)  | 100.6 (49.9-169.1)               | 59.1 (23.8-108.7)    | 21.8 (-1.4-62.2)                    | ¥                   | ¥                           | 35.2 (2.2-83.8)  | ¥                | ¥                   | ¥               | 29.8 (3.6-72.9)  |
| Mineral         | 126.5 (91.2-172.0)  | 110.9 (76.1-152.5)               | 61.9 (35.5-95.6)     | 28.0 (9.3-56.0)                     | ¥                   | ¥                           | 46.9 (24.3-76.9) | 31.6 (12.9-58.5) | 11.8 (.4-31.0)      | 14.2 (1.3-36.9) | 58.9 (33.3-92.7) |
| Missoula        | 79.7 (74.5-84.8)    | 65.9 (61.3-70.5)                 | 49.7 (45.7-53.7)     | 13.9 (11.7-16.0)                    | 13.1 (11.1-15.2)    | 11.1 (9.1-13.1)             | 24.0 (21.2-26.8) | 15.2 (13.0-17.5) | 4.1 (2.9-5.4)       | 3.3 (2.2-4.6)   | 28.1 (25.1-31.1) |
| Musselshell     | 140.5 (106.6-181.6) | 126.5 (92.6-165.9)               | 84.3 (57.8-117.1)    | 36.3 (17.1-62.1)                    | 21.5 (11.1-38.5)    | 12.9 (1.1-32.4)             | 52.8 (29.4-83.0) | 44.1 (22.8-71.1) | ¥                   | ¥               | 65.2 (39.7-96.4) |
| Park            | 114.3 (97.7-130.9)  | 95.8 (80.6-111.0)                | 69.3 (56.6-82.0)     | 21.7 (14.1-31.0)                    | 16.4 (11.0-23.3)    | 12.6 (7.1-19.6)             | 38.4 (28.7-49.8) | 23.9 (16.3-33.3) | 8.1 (3.2-14.5)      | 3.6 (.3-9.2)    | 40.6 (30.4-52.2) |
| Petroleum       | ¥                   | ¥                                | ¥                    | ¥                                   | 0                   | 0                           | 0                | 0                | 0                   | ¥               | ¥                |
| Phillips        | 103.5 (73.2-142.3)  | 96.0 (65.1-133.8)                | 62.9 (37.2-95.5)     | 35.2 (14.8-62.4)                    | 9.4 (2.4-25.0)      | ¥                           | 34.3 (16.2-58.8) | 27.1 (11.2-50.2) | ¥                   | 0               | 47.4 (26.4-75.5) |
| Pondera         | 100.0 (75.3-129.9)  | 88.4 (64.6-116.3)                | 71.9 (50.1-98.0)     | 30.7 (15.2-50.3)                    | 15.5 (8.1-28.1)     | 9.7 (.9-23.9)               | 20.9 (9.5-36.8)  | 14.3 (5.1-27.9)  | ¥                   | ¥               | 30.3 (16.4-49.1) |
| Powder River    | 108.7 (58.8-186.1)  | 98.3 (45.5-170.7)                | 71.9 (26.9-136.9)    | ¥                                   | ¥                   | ¥                           | 36.8 (2.4-90.5)  | 36.8 (2.4-90.5)  | 0                   | 0               | 41.1 (6.2-96.4)  |
| Powell          | 114.5 (90.4-143.5)  | 93.9 (71.4-120.9)                | 64.3 (45.9-86.6)     | 19.1 (8.3-35.1)                     | 10.5 (4.2-22.1)     | 17.5 (7.7-32.2)             | 40.4 (25.9-59.5) | 14.6 (6.3-27.6)  | 18.8 (8.7-33.6)     | 8.3 (.3-21.9)   | 31.0 (17.9-48.1) |
| Prairie         | 91.9 (41.3-190.4)   | 91.9 (32.4-190.4)                | 32.2 (9.4-99.8)      | 0                                   | 19.1 (2.0-83.4)     | 0                           | ¥                | ¥                | ¥                   | ¥               | 60.4 (8.7-146.0) |
| Ravalli         | 87.0 (78.1-95.8)    | 76.9 (68.6-85.2)                 | 52.3 (45.5-59.0)     | 15.9 (11.8-20.4)                    | 14.7 (11.7-18.3)    | 7.7 (4.8-11.1)              | 29.0 (23.7-34.2) | 20.9 (16.4-25.3) | 3.6 (1.7-6.2)       | 4.0 (1.9-6.7)   | 35.4 (29.7-41.2) |
| Richland        | 79.1 (63.1-97.5)    | 67.0 (51.8-84.1)                 | 43.7 (31.8-57.8)     | 13.3 (6.4-22.2)                     | 7.1 (2.4-14.1)      | 9.3 (3.7-17.2)              | 30.1 (19.5-42.6) | 18.9 (10.5-29.3) | 8.2 (2.5-15.8)      | 4.0 (.4-10.1)   | 27.4 (17.6-39.3) |
| Roosevelt       | 194.8 (167.0-222.7) | 168.7 (142.8-194.6)              | 134.0 (110.7-157.2)  | 37.3 (25.3-51.7)                    | 18.4 (9.7-29.7)     | 23.2 (13.5-35.2)            | 36.4 (24.3-50.8) | 13.7 (6.1-23.6)  | 16.5 (8.6-27.0)     | 13.6 (6.5-23.0) | 50.4 (36.1-67.0) |
| Rosebud         | 191.0 (160.1-221.9) | 182.6 (152.3-213.0)              | 128.9 (103.7-154.1)  | 64.3 (46.3-84.9)                    | 21.3 (11.6-34.3)    | 7.6 (2.1-16.3)              | 38.6 (24.8-55.3) | 23.7 (13.0-37.6) | 13.4 (4.9-24.6)     | 18.0 (8.0-31.6) | 61.3 (43.7-81.9) |
| Sanders         | 118.1 (96.6-139.6)  | 108.6 (87.9-129.3)               | 76.7 (59.6-93.8)     | 41.6 (28.3-57.1)                    | 10.0 (4.6-18.1)     | 7.5 (2.4-15.1)              | 32.3 (20.9-46.4) | 21.9 (12.7-33.8) | ¥                   | 5.1 (.4-12.3)   | 38.8 (26.8-53.2) |
| Sheridan        | 114.3 (81.4-156.2)  | 101.8 (69.4-141.2)               | 90.3 (60.3-126.5)    | 29.8 (10.1-56.5)                    | 24.5 (12.7-44.2)    | ¥                           | 20.5 (4.2-45.3)  | 12.6 (.6-33.0)   | ¥                   | 0               | 36.4 (17.0-62.6) |
| Silver Bow      | 110.5 (99.2-121.7)  | 81.4 (71.8-90.9)                 | 64.2 (55.9-72.6)     | 12.9 (9.1-17.4)                     | 11.7 (8.5-15.4)     | 25.8 (20.2-32.0)            | 37.8 (31.0-44.6) | 23.8 (18.4-29.8) | 7.9 (4.7-11.7)      | 4.3 (1.9-7.5)   | 35.0 (28.7-41.3) |
| Stillwater      | 84.8 (66.5-106.6)   | 75.5 (57.4-96.0)                 | 53.0 (38.6-70.3)     | 22.3 (12.0-35.5)                    | 13.3 (6.9-22.6)     | 4.9 (.2-13.4)               | 29.0 (16.8-43.8) | 24.1 (13.0-38.0) | ¥                   | 0               | 40.1 (26.3-56.4) |
| Sweet Grass     | 78.2 (50.7-115.3)   | 61.9 (36.2-94.7)                 | 39.6 (19.4-67.2)     | ¥                                   | 9.6 (1.2-27.9)      | ¥                           | 28.9 (10.2-56.9) | 17.4 (3.0-39.4)  | ¥                   | ¥               | 26.0 (10.0-50.3) |
| Teton           | 113.7 (87.4-145.1)  | 100.7 (75.3-130.4)               | 82.9 (60.2-110.0)    | 30.1 (15.1-49.1)                    | 18.4 (9.4-32.1)     | 13.0 (2.9-27.6)             | 27.6 (13.2-46.8) | 26.6 (12.3-45.1) | 0                   | ¥               | 42.4 (25.3-64.1) |
| Toole           | 72.9 (50.3-102.4)   | 66.1 (43.1-94.2)                 | 46.3 (27.6-69.8)     | 17.3 (4.9-34.6)                     | 16.9 (6.4-33.1)     | ¥                           | 22.0 (8.0-41.0)  | 11.4 (1.1-27.8)  | ¥                   | ¥               | 31.4 (15.1-53.5) |
| Treasure        | 205.5 (91.0-387.4)  | 205.5 (73.4-387.4)               | 90.8 (5.9-226.7)     | ¥                                   | ¥                   | 0                           | 88.7 (1.3-223.6) | ¥                | ¥                   | 0               | ¥                |
| Valley          | 109.6 (86.5-137.1)  | 94.7 (72.5-120.2)                | 78.2 (57.9-101.7)    | 29.4 (16.7-45.8)                    | 14.8 (7.9-25.5)     | 12.4 (2.9-25.9)             | 25.8 (13.9-41.3) | 19.6 (9.5-33.5)  | ¥                   | ¥               | 40.7 (26.5-58.4) |
| Wheatland       | 106.1 (63.4-167.2)  | 85.4 (44.6-141.2)                | 82.7 (40.7-138.5)    | 25.5 (1.7-64.1)                     | 23.6 (3.7-60.7)     | ¥                           | 23.3 (2.9-59.7)  | ¥                | ¥                   | 0               | 37.6 (12.0-76.9) |
| Wibaux          | 90.9 (42.4-178.9)   | 75.5 (26.4-151.8)                | 75.5 (26.4-151.8)    | ¥                                   | ¥                   | ¥                           | ¥                | ¥                | 0                   | 0               | ¥                |
| Yellowstone     | 91.3 (86.6-95.9)    | 72.1 (68.0-76.2)                 | 56.1 (52.5-59.6)     | 14.2 (12.3-16.1)                    | 15.0 (13.3-16.7)    | 13.9 (12.0-15.8)            | 25.1 (22.6-27.5) | 14.5 (12.6-16.3) | 5.6 (4.4-7.0)       | 5.2 (4.0-6.5)   | 27.4 (24.9-29.9) |

Notes: ¥ indicates rate suppressed due to N<5. Bridged race death certificate variable and population estimates used for 2020 and earlier, single race death certificate variable and population estimates used for 2021 and later. Single race population estimates include a multi-racial category, resulting in an 8% reduction from 2020 to 2021 in the estimated population of AI/AN Montanans.

**Table 10. Fatality counts for selected injury indicators by demographics and geography, 2014-2023**

|                                      | All Injury | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide | Firearm Suicide | Suffocation Suicide | Homicide | TBI   |
|--------------------------------------|------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|---------|-----------------|---------------------|----------|-------|
| <b>Montana Total</b>                 | 10,483     | 8,982                            | 6,803                | 1,930                               | 1,912               | 1,182                       | 2,931   | 1,883           | 603                 | 444      | 3,611 |
| <b>Sex</b>                           |            |                                  |                      |                                     |                     |                             |         |                 |                     |          |       |
| Male                                 | 7,040      | 6,162                            | 4,212                | 1,319                               | 952                 | 745                         | 2,329   | 1,620           | 450                 | 299      | 2,753 |
| Female                               | 3,443      | 2,820                            | 2,591                | 611                                 | 960                 | 437                         | 602     | 263             | 153                 | 145      | 858   |
| <b>Race</b>                          |            |                                  |                      |                                     |                     |                             |         |                 |                     |          |       |
| AI/AN                                | 1,332      | 1,098                            | 864                  | 368                                 | 64                  | 214                         | 280     | 106             | 145                 | 127      | 311   |
| White                                | 8,975      | 7,744                            | 5,849                | 1,526                               | 1,837               | 938                         | 2,594   | 1,746           | 442                 | 292      | 3,243 |
| All Other Races                      | 176        | 140                              | 90                   | 36                                  | 11                  | 30                          | 57      | 31              | 16                  | 25       | 57    |
| <b>Age</b>                           |            |                                  |                      |                                     |                     |                             |         |                 |                     |          |       |
| 65+                                  | 3,594      | 3,470                            | 2,910                | 350                                 | 1,662               | 76                          | 602     | 472             | 44                  | 43       | 1,274 |
| 45-64                                | 2,712      | 2,118                            | 1,587                | 510                                 | 176                 | 446                         | 899     | 557             | 154                 | 115      | 900   |
| 25-44                                | 2,824      | 2,149                            | 1,572                | 623                                 | 56                  | 575                         | 955     | 563             | 262                 | 180      | 919   |
| 0-24                                 | 1,353      | 1,245                            | 734                  | 447                                 | 18                  | 85                          | 475     | 291             | 143                 | 106      | 518   |
| <b>NCHS Rural-Urban</b>              |            |                                  |                      |                                     |                     |                             |         |                 |                     |          |       |
| Small Metro                          | 3,483      | 2,905                            | 2,210                | 554                                 | 678                 | 433                         | 963     | 597             | 193                 | 160      | 1,155 |
| Micropolitan                         | 2,714      | 2,282                            | 1,730                | 427                                 | 516                 | 355                         | 842     | 556             | 154                 | 85       | 974   |
| Noncore                              | 4,286      | 3,795                            | 2,863                | 949                                 | 718                 | 394                         | 1,126   | 730             | 256                 | 199      | 1,482 |
| <b>IDD</b>                           |            |                                  |                      |                                     |                     |                             |         |                 |                     |          |       |
| Most Advantaged                      | 1,168      | 1,035                            | 822                  | 225                                 | 231                 | 104                         | 297     | 215             | 41                  | 31       | 427   |
| Advantaged                           | 7,007      | 5,974                            | 4,482                | 1,167                               | 1,404               | 789                         | 2,038   | 1,323           | 388                 | 270      | 2,467 |
| Neutral                              | 1,267      | 1,045                            | 813                  | 242                                 | 183                 | 193                         | 367     | 222             | 90                  | 58       | 426   |
| Disadvantaged/<br>Most disadvantaged | 1,041      | 928                              | 686                  | 296                                 | 94                  | 96                          | 229     | 123             | 84                  | 85       | 291   |
| <b>County</b>                        |            |                                  |                      |                                     |                     |                             |         |                 |                     |          |       |
| Beaverhead                           | 79         | 72                               | 54                   | 11                                  | 24                  | 5                           | 22      | 15              | 4                   | 2        | 27    |
| Big Horn                             | 269        | 248                              | 188                  | 117                                 | 12                  | 17                          | 39      | 26              | 10                  | 27       | 65    |
| Blaine                               | 94         | 85                               | 55                   | 20                                  | 13                  | 7                           | 32      | 15              | 15                  | 6        | 26    |
| Broadwater                           | 57         | 49                               | 43                   | 15                                  | 12                  | 6                           | 13      | 8               | 3                   | 1        | 20    |
| Carbon                               | 119        | 104                              | 77                   | 21                                  | 18                  | 12                          | 32      | 26              | 2                   | 7        | 37    |
| Carter                               | 15         | 15                               | 11                   | 4                                   | 2                   | 0                           | 3       | 2               | 1                   | 0        | 6     |
| Cascade                              | 808        | 708                              | 525                  | 128                                 | 189                 | 75                          | 217     | 131             | 52                  | 34       | 274   |
| Chouteau                             | 68         | 63                               | 48                   | 17                                  | 15                  | 4                           | 16      | 7               | 8                   | 3        | 20    |
| Custer                               | 119        | 97                               | 84                   | 16                                  | 26                  | 16                          | 30      | 16              | 6                   | 4        | 35    |
| Daniels                              | 18         | 16                               | 13                   | 3                                   | 3                   | 0                           | 4       | 3               | 0                   | 0        | 6     |
| Dawson                               | 70         | 62                               | 51                   | 13                                  | 11                  | 8                           | 15      | 13              | 2                   | 3        | 18    |
| Deer Lodge                           | 126        | 105                              | 74                   | 16                                  | 17                  | 17                          | 43      | 29              | 7                   | 9        | 49    |
| Fallon                               | 18         | 17                               | 13                   | 1                                   | 5                   | 1                           | 5       | 2               | 3                   | 0        | 8     |
| Fergus                               | 132        | 118                              | 100                  | 24                                  | 34                  | 12                          | 26      | 20              | 6                   | 2        | 46    |
| Flathead                             | 926        | 783                              | 617                  | 170                                 | 164                 | 126                         | 263     | 179             | 50                  | 34       | 339   |
| Gallatin                             | 642        | 558                              | 381                  | 111                                 | 97                  | 68                          | 234     | 160             | 48                  | 16       | 257   |
| Garfield                             | 10         | 10                               | 9                    | 5                                   | 1                   | 0                           | 1       | 1               | 0                   | 0        | 2     |
| Glacier                              | 197        | 170                              | 126                  | 52                                  | 15                  | 24                          | 47      | 20              | 25                  | 15       | 51    |
| Golden Valley                        | 7          | 7                                | 4                    | 1                                   | 0                   | 0                           | 2       | 1               | 1                   | 1        | 2     |
| Granite                              | 37         | 34                               | 25                   | 11                                  | 6                   | 2                           | 10      | 9               | 0                   | 1        | 21    |
| Hill                                 | 154        | 133                              | 106                  | 30                                  | 34                  | 20                          | 38      | 15              | 22                  | 8        | 48    |

|                 | All Injury | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide | Firearm Suicide | Suffocation Suicide | Homicide | TBI |
|-----------------|------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|---------|-----------------|---------------------|----------|-----|
| Jefferson       | 119        | 104                              | 75                   | 16                                  | 21                  | 13                          | 41      | 25              | 7                   | 2        | 51  |
| Judith Basin    | 18         | 18                               | 14                   | 4                                   | 5                   | 0                           | 2       | 1               | 1                   | 2        | 7   |
| Lake            | 381        | 309                              | 245                  | 75                                  | 47                  | 64                          | 109     | 69              | 25                  | 22       | 129 |
| Lewis and Clark | 620        | 531                              | 407                  | 82                                  | 179                 | 60                          | 174     | 111             | 23                  | 20       | 197 |
| Liberty         | 9          | 8                                | 7                    | 0                                   | 5                   | 1                           | 1       | 1               | 0                   | 1        | 5   |
| Lincoln         | 219        | 202                              | 140                  | 58                                  | 34                  | 12                          | 63      | 47              | 8                   | 9        | 97  |
| McCone          | 20         | 20                               | 18                   | 7                                   | 8                   | 0                           | 2       | 2               | 0                   | 0        | 8   |
| Madison         | 73         | 64                               | 50                   | 14                                  | 16                  | 7                           | 22      | 17              | 1                   | 1        | 34  |
| Meagher         | 22         | 21                               | 16                   | 5                                   | 3                   | 1                           | 5       | 4               | 1                   | 1        | 8   |
| Mineral         | 59         | 53                               | 30                   | 12                                  | 3                   | 4                           | 22      | 15              | 5                   | 5        | 27  |
| Missoula        | 981        | 819                              | 609                  | 173                                 | 163                 | 130                         | 300     | 195             | 50                  | 39       | 354 |
| Musselshell     | 75         | 68                               | 50                   | 16                                  | 17                  | 6                           | 24      | 20              | 3                   | 1        | 31  |
| Park            | 210        | 176                              | 131                  | 34                                  | 39                  | 22                          | 70      | 44              | 11                  | 5        | 70  |
| Petroleum       | 2          | 2                                | 1                    | 1                                   | 0                   | 0                           | 0       | 0               | 0                   | 1        | 2   |
| Phillips        | 47         | 45                               | 28                   | 13                                  | 7                   | 2                           | 17      | 14              | 3                   | 0        | 24  |
| Pondera         | 70         | 64                               | 51                   | 16                                  | 18                  | 5                           | 15      | 11              | 4                   | 3        | 22  |
| Powder River    | 19         | 18                               | 14                   | 4                                   | 3                   | 1                           | 5       | 5               | 0                   | 0        | 7   |
| Powell          | 90         | 75                               | 52                   | 14                                  | 11                  | 13                          | 32      | 13              | 14                  | 5        | 26  |
| Prairie         | 13         | 13                               | 8                    | 0                                   | 5                   | 0                           | 4       | 3               | 1                   | 1        | 7   |
| Ravalli         | 450        | 404                              | 281                  | 70                                  | 99                  | 32                          | 146     | 105             | 16                  | 16       | 178 |
| Richland        | 92         | 78                               | 54                   | 15                                  | 9                   | 11                          | 32      | 20              | 8                   | 5        | 31  |
| Roosevelt       | 198        | 172                              | 135                  | 39                                  | 18                  | 23                          | 36      | 13              | 17                  | 15       | 50  |
| Rosebud         | 157        | 148                              | 108                  | 52                                  | 19                  | 8                           | 32      | 20              | 10                  | 13       | 50  |
| Sanders         | 160        | 146                              | 108                  | 52                                  | 18                  | 11                          | 42      | 30              | 3                   | 6        | 57  |
| Sheridan        | 51         | 47                               | 43                   | 10                                  | 17                  | 3                           | 7       | 5               | 1                   | 0        | 16  |
| Silver Bow      | 407        | 306                              | 250                  | 48                                  | 55                  | 88                          | 130     | 81              | 26                  | 13       | 130 |
| Stillwater      | 88         | 80                               | 62                   | 21                                  | 18                  | 5                           | 24      | 20              | 2                   | 0        | 38  |
| Sweet Grass     | 35         | 29                               | 19                   | 2                                   | 6                   | 4                           | 11      | 7               | 2                   | 2        | 13  |
| Teton           | 81         | 74                               | 63                   | 17                                  | 20                  | 7                           | 16      | 15              | 0                   | 1        | 28  |
| Toole           | 38         | 35                               | 26                   | 8                                   | 11                  | 2                           | 10      | 5               | 1                   | 1        | 15  |
| Treasure        | 12         | 12                               | 6                    | 4                                   | 1                   | 0                           | 5       | 2               | 3                   | 0        | 3   |
| Valley          | 96         | 87                               | 72                   | 24                                  | 21                  | 7                           | 21      | 17              | 2                   | 2        | 38  |
| Wheatland       | 25         | 21                               | 19                   | 5                                   | 7                   | 3                           | 6       | 3               | 2                   | 0        | 10  |
| Wibaux          | 13         | 12                               | 12                   | 2                                   | 3                   | 1                           | 1       | 1               | 0                   | 0        | 3   |
| Yellowstone     | 1,568      | 1,267                            | 995                  | 231                                 | 308                 | 216                         | 412     | 244             | 88                  | 79       | 488 |

Notes: Bridged race death certificate variable used for 2020 and earlier, single race death certificate variable used for 2021 and later.

**Table 11. Age-adjusted death rates for selected injury indicators per 100,000 residents by counties that correspond with Montana American Indian reservations, American Indian/Alaska Native, 2014-2023**

| American Indian/Alaska Native | All Injury          | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide           | Firearm Suicide  | Suffocation Suicide | Homicide         | TBI                |
|-------------------------------|---------------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|-------------------|------------------|---------------------|------------------|--------------------|
| <b>Blackfoot</b>              | 208.3 (177.3-239.3) | 175.4 (147.0-203.8)              | 140.9 (115.1-166.8)  | 58.9 (43.8-78.4)                    | 12.5 (5.2-25.0)     | 30.5 (19.4-45.7)            | 40.9 (28.7-56.9)  | 12.7 (6.4-23.8)  | 27.1 (17.1-41.3)    | 17.7 (9.4-30.9)  | 46.3 (32.4-63.8)   |
| Glacier                       | 202.9 (170.7-235.1) | 173.8 (144.0-203.6)              | 135.3 (108.6-161.9)  | 54.6 (39.4-74.8)                    | 13.8 (5.7-27.4)     | 26.4 (16.1-42.2)            | 41.4 (28.6-58.7)  | 13.0 (6.3-24.9)  | 27.2 (16.7-42.6)    | 16.6 (8.3-30.3)  | 47.6 (33.1-66.8)   |
| Pondera                       | 258.9 (154.8-405.4) | 188.9 (104.0-319.1)              | 198.2 (109.8-336.3)  | 104.3 (45.9-217.7)                  | 0                   | 70.0 (20.1-181.1)           | ¥                 | ¥                | ¥                   | ¥                | ¥                  |
| <b>Crow</b>                   | 242.5 (215.3-269.7) | 203.8 (178.7-228.8)              | 169.4 (145.9-193.0)  | 82.2 (67.2-97.3)                    | 17.9 (8.4-33.6)     | 33.8 (24.3-48.6)            | 30.1 (22.2-43.2)  | 15.1 (9.6-26.4)  | 8.8 (4.9-18.8)      | 28.1 (20.3-41.5) | 48.8 (37.2-65.2)   |
| Big Horn                      | 278.5 (239.1-317.9) | 256.5 (218.8-294.2)              | 198.2 (164.3-232.1)  | 126.8 (101.3-152.3)                 | 13.6 (3.4-34.2)     | 18.1 (9.1-36.1)             | 28.9 (18.1-47.9)  | 15.7 (7.8-33.1)  | 9.8 (4.1-24.8)      | 32.1 (20.6-52.3) | 61.8 (44.1-87.9)   |
| Yellowstone                   | 209.5 (170.5-248.6) | 152.8 (118.3-187.4)              | 142.3 (109.3-190.1)  | 37.6 (22.5-70.7)                    | 23.6 (7.0-58.8)     | 50.2 (33.8-83.3)            | 32.2 (20.8-62.2)  | 14.8 (7.3-44.7)  | 7.8 (3.1-34.3)      | 24.3 (14.0-54.8) | 35.0 (22.2-65.7)   |
| <b>Flathead</b>               | 176.9 (151.5-202.4) | 130.6 (108.3-153.0)              | 117.5 (96.2-138.8)   | 39.2 (28.6-54.5)                    | 14.0 (5.9-27.4)     | 44.7 (33.4-60.3)            | 40.2 (29.8-54.9)  | 21.3 (13.7-33.7) | 15.5 (9.3-26.3)     | 14.6 (8.1-26.4)  | 47.8 (34.8-65.3)   |
| Flathead                      | 101.4 (55.0-203.9)  | 87.3 (44.7-190.8)                | 58.4 (25.0-160.2)    | ¥                                   | ¥                   | ¥                           | ¥                 | ¥                | ¥                   | ¥                | 52.0 (19.8-151.8)  |
| Lake                          | 196.4 (160.1-232.8) | 137.7 (107.5-175.9)              | 131.1 (102.2-168.1)  | 31.1 (19.4-51.9)                    | 15.7 (5.2-36.2)     | 57.0 (40.0-82.6)            | 43.5 (29.2-66.4)  | 19.3 (9.9-39.1)  | 19.2 (10.5-37.5)    | 18.4 (7.8-39.7)  | 53.1 (34.0-81.7)   |
| Missoula                      | 188.8 (137.5-262.1) | 152.1 (106.4-222.9)              | 124.6 (81.8-191.1)   | 74.4 (40.9-135.6)                   | ¥                   | 36.7 (18.0-83.2)            | 45.2 (23.9-93.0)  | 30.4 (13.8-74.5) | 14.8 (4.3-58.2)     | ¥                | 44.9 (24.5-92.2)   |
| Sanders                       | 108.5 (34.3-266.2)  | ¥                                | 99.6 (24.2-259.3)    | ¥                                   | ¥                   | ¥                           | ¥                 | 0                | 0                   | 0                | ¥                  |
| <b>Fort Belknap</b>           | 230.3 (179.4-291.4) | 194.7 (148.4-250.6)              | 130.6 (92.4-178.4)   | 55.6 (33.4-86.8)                    | ¥                   | 31.6 (13.8-61.1)            | 76.7 (48.6-114.0) | 31.2 (14.7-59.1) | 41.5 (21.8-71.0)    | 18.9 (6.5-43.8)  | 59.5 (35.0-93.2)   |
| Blaine                        | 221.2 (168.2-284.8) | 189.3 (141.2-248.5)              | 126.8 (87.1-178.3)   | 51.2 (28.5-87.4)                    | ¥                   | 27.3 (10.1-60.3)            | 73.6 (45.6-114.8) | 25.1 (11.1-53.1) | 44.0 (22.3-77.6)    | 20.8 (7.1-49.3)  | 48.7 (26.2-83.6)   |
| Phillips                      | 296.3 (127.7-603.6) | 208.3 (80.5-462.4)               | 195.8 (59.6-470.0)   | ¥                                   | 0                   | ¥                           | ¥                 | ¥                | ¥                   | 0                | 118.7 (28.8-330.8) |
| <b>Fort Peck</b>              | 263.9 (222.2-305.6) | 220.5 (182.3-258.8)              | 183.5 (147.6-219.3)  | 47.2 (31.9-72.1)                    | 20.4 (8.4-44.1)     | 38.1 (23.8-62.2)            | 44.0 (29.6-67.8)  | 12.7 (5.4-31.6)  | 22.4 (12.9-42.2)    | 18.3 (9.1-38.0)  | 55.3 (37.6-82.4)   |
| Daniels                       | ¥                   | 0                                | 0                    | 0                                   | 0                   | 0                           | 0                 | 0                | 0                   | 0                | 0                  |
| Roosevelt                     | 264.8 (220.3-309.2) | 226.7 (185.4-267.9)              | 182.6 (144.5-220.8)  | 47.8 (31.4-75.9)                    | 16.1 (5.7-40.0)     | 34.4 (20.5-61.3)            | 47.0 (31.2-74.7)  | 14.3 (6.1-36.1)  | 22.7 (12.6-46.7)    | 19.3 (9.4-41.7)  | 61.6 (41.9-93.7)   |
| Sheridan                      | 0                   | 0                                | 0                    | 0                                   | 0                   | 0                           | 0                 | 0                | 0                   | 0                | 0                  |
| Valley                        | 293.4 (164.7-478.8) | 203.7 (101.3-367.0)              | 230.7 (119.0-403.8)  | ¥                                   | ¥                   | 89.7 (26.4-229.7)           | ¥                 | 0                | ¥                   | ¥                | ¥                  |
| <b>Little Shell</b>           | 168.3 (128.9-216.5) | 135.6 (100.8-180.1)              | 116.5 (82.8-158.9)   | 42.2 (23.6-69.3)                    | 15.6 (4.6-39.5)     | 30.6 (15.0-55.5)            | 27.4 (13.9-51.8)  | ¥                | 23.3 (10.8-46.3)    | 16.2 (5.5-37.4)  | 36.6 (19.1-64.9)   |
| Cascade                       | 168.3 (128.9-216.5) | 135.6 (100.8-180.1)              | 116.5 (82.8-158.9)   | 42.2 (23.6-69.3)                    | 15.6 (4.6-39.5)     | 30.6 (15.0-55.5)            | 27.4 (13.9-51.8)  | ¥                | 23.3 (10.8-46.3)    | 16.2 (5.5-37.4)  | 36.6 (19.1-64.9)   |
| <b>Northern Cheyenne</b>      | 290.4 (256.3-324.5) | 269.7 (236.9-302.5)              | 201.6 (172.8-230.5)  | 121.6 (100.4-142.8)                 | 11.9 (3.9-28.0)     | 17.9 (9.9-32.2)             | 35.3 (24.7-51.7)  | 19.6 (11.6-33.6) | 13.2 (7.2-25.7)     | 35.7 (24.7-52.3) | 70.1 (53.8-91.9)   |
| Big Horn                      | 278.5 (239.1-317.9) | 256.5 (218.8-294.2)              | 198.2 (164.3-232.1)  | 126.8 (101.3-152.3)                 | 13.6 (3.4-34.2)     | 18.1 (9.1-36.1)             | 28.9 (18.1-47.9)  | 15.7 (7.8-33.1)  | 9.8 (4.1-24.8)      | 32.1 (20.6-52.3) | 61.8 (44.1-87.9)   |
| Rosebud                       | 320.7 (256.3-405.9) | 303.4 (240.3-386.1)              | 209.5 (158.3-282.0)  | 107.4 (72.2-164.8)                  | ¥                   | 17.3 (4.8-58.5)             | 52.1 (27.2-100.5) | 29.8 (11.2-74.7) | 22.3 (8.5-66.8)     | 45.4 (22.7-92.6) | 92.0 (58.8-149.7)  |
| <b>Rocky Boy</b>              | 179.2 (139.7-231.9) | 144.9 (109.0-194.6)              | 115.7 (83.6-161.3)   | 34.8 (20.7-64.3)                    | 17.9 (3.9-50.4)     | 34.4 (19.0-64.4)            | 51.0 (31.6-84.9)  | ¥                | 48.2 (29.4-81.5)    | 10.8 (3.1-36.6)  | 39.5 (23.1-71.7)   |
| Chouteau                      | 207.1 (126.3-355.0) | 186.1 (110.2-337.0)              | 152.7 (81.5-300.2)   | 55.4 (22.9-176.3)                   | ¥                   | ¥                           | 47.7 (18.0-158.5) | 0                | 47.7 (18.0-158.5)   | ¥                | 68.4 (29.0-194.6)  |
| Hill                          | 173.2 (126.7-238.7) | 134.7 (93.8-195.0)               | 107.3 (71.7-163.6)   | 30.0 (14.9-68.5)                    | ¥                   | 38.5 (20.0-80.1)            | 51.5 (28.1-95.8)  | ¥                | 47.7 (25.4-90.9)    | ¥                | 32.2 (15.1-72.0)   |

Notes: ¥ indicates rate suppressed due to N<5. Bridged race death certificate variable and population estimates used for 2020 and earlier, single race death certificate variable and population estimates used for 2021 and later. Single race population estimates include a multi-racial category, resulting in an 8% reduction from 2020 to 2021 in the estimated population of AI/AN Montanans.

**Table 12. Fatality counts for selected injury indicators by counties that correspond with Montana American Indian reservations, American Indian/Alaska Native, 2014-2023**

| American Indian/Alaska Native | All Injury | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide | Firearm Suicide | Suffocation Suicide | Homicide | TBI |
|-------------------------------|------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|---------|-----------------|---------------------|----------|-----|
| <b>Blackfoot</b>              | 185        | 157                              | 122                  | 55                                  | 9                   | 26                          | 40      | 13              | 26                  | 15       | 42  |
| Glacier                       | 163        | 140                              | 106                  | 46                                  | 9                   | 21                          | 36      | 12              | 23                  | 13       | 39  |
| Pondera                       | 22         | 17                               | 16                   | 9                                   | 0                   | 5                           | 4       | 1               | 3                   | 2        | 3   |
| <b>Crow</b>                   | 357        | 303                              | 238                  | 127                                 | 15                  | 46                          | 52      | 25              | 17                  | 46       | 74  |
| Big Horn                      | 213        | 198                              | 148                  | 102                                 | 6                   | 12                          | 25      | 13              | 9                   | 26       | 47  |
| Yellowstone                   | 144        | 105                              | 90                   | 25                                  | 9                   | 34                          | 27      | 12              | 8                   | 20       | 27  |
| <b>Flathead</b>               | 216        | 158                              | 138                  | 52                                  | 11                  | 56                          | 54      | 27              | 22                  | 18       | 55  |
| Flathead                      | 16         | 14                               | 9                    | 3                                   | 2                   | 2                           | 4       | 3               | 1                   | 3        | 7   |
| Lake                          | 134        | 93                               | 86                   | 25                                  | 7                   | 40                          | 33      | 13              | 16                  | 12       | 31  |
| Missoula                      | 59         | 47                               | 37                   | 21                                  | 1                   | 12                          | 16      | 11              | 5                   | 3        | 16  |
| Sanders                       | 7          | 4                                | 6                    | 3                                   | 1                   | 2                           | 1       | 0               | 0                   | 0        | 1   |
| <b>Fort Belknap</b>           | 77         | 67                               | 43                   | 21                                  | 3                   | 9                           | 27      | 11              | 15                  | 6        | 21  |
| Blaine                        | 67         | 59                               | 37                   | 17                                  | 3                   | 7                           | 24      | 9               | 14                  | 6        | 16  |
| Phillips                      | 10         | 8                                | 6                    | 4                                   | 0                   | 2                           | 3       | 2               | 1                   | 0        | 5   |
| <b>Fort Peck</b>              | 176        | 148                              | 116                  | 33                                  | 10                  | 25                          | 33      | 9               | 18                  | 14       | 38  |
| Daniels                       | 1          | 0                                | 0                    | 0                                   | 0                   | 0                           | 0       | 0               | 0                   | 0        | 0   |
| Roosevelt                     | 158        | 136                              | 103                  | 30                                  | 8                   | 20                          | 31      | 9               | 16                  | 13       | 37  |
| Sheridan                      | 0          | 0                                | 0                    | 0                                   | 0                   | 0                           | 0       | 0               | 0                   | 0        | 0   |
| Valley                        | 17         | 12                               | 13                   | 3                                   | 2                   | 5                           | 2       | 0               | 2                   | 1        | 1   |
| <b>Little Shell</b>           | 67         | 54                               | 45                   | 17                                  | 5                   | 12                          | 12      | 2               | 10                  | 7        | 14  |
| Cascade                       | 67         | 54                               | 45                   | 17                                  | 5                   | 12                          | 12      | 2               | 10                  | 7        | 14  |
| <b>Northern Cheyenne</b>      | 308        | 288                              | 210                  | 136                                 | 8                   | 17                          | 41      | 22              | 16                  | 39       | 74  |
| Big Horn                      | 213        | 198                              | 148                  | 102                                 | 6                   | 12                          | 25      | 13              | 9                   | 26       | 47  |
| Rosebud                       | 95         | 90                               | 62                   | 34                                  | 2                   | 5                           | 16      | 9               | 7                   | 13       | 27  |
| <b>Rocky Boy</b>              | 82         | 66                               | 52                   | 20                                  | 5                   | 16                          | 24      | 1               | 23                  | 5        | 20  |
| Chouteau                      | 24         | 22                               | 16                   | 8                                   | 1                   | 2                           | 7       | 0               | 7                   | 1        | 9   |
| Hill                          | 58         | 44                               | 36                   | 12                                  | 4                   | 14                          | 17      | 1               | 16                  | 4        | 11  |

Notes: Bridged race death certificate variable used for 2020 and earlier, single race death certificate variable used for 2021 and later.

**Table 13. Age-adjusted death rates for selected injury indicators per 100,000 residents by counties that correspond with Montana American Indian reservations, White, 2014-2023**

| White                    | All Injury         | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide          | Firearm Suicide  | Suffocation Suicide | Homicide       | TBI               |
|--------------------------|--------------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|------------------|------------------|---------------------|----------------|-------------------|
| <b>Blackfoot</b>         | 64.7 (49.8-82.7)   | 59.2 (45.2-76.6)                 | 41.1 (29.4-56.0)     | 12.8 (6.1-23.5)                     | 14.2 (8.8-23.0)     | ¥                           | 18.5 (10.8-30.0) | 14.2 (7.9-24.3)  | ¥                   | ¥              | 25.1 (15.9-38.0)  |
| Glacier                  | 59.5 (38.9-87.5)   | 50.8 (31.6-76.5)                 | 33.1 (18.6-55.1)     | 10.3 (3.0-24.9)                     | 10.1 (3.0-25.0)     | ¥                           | 20.8 (9.3-40.2)  | 13.4 (4.7-30.1)  | ¥                   | ¥              | 19.7 (8.4-38.1)   |
| Pondera                  | 67.3 (46.8-93.8)   | 64.9 (44.7-90.7)                 | 47.0 (30.6-70.7)     | 15.6 (5.5-34.1)                     | 16.5 (9.5-30.6)     | 0                           | 15.7 (7.2-32.4)  | 14.5 (6.2-30.6)  | ¥                   | ¥              | 29.5 (15.8-50.2)  |
| <b>Crow</b>              | 86.1 (81.5-90.7)   | 69.2 (65.1-73.3)                 | 52.5 (49.0-56.0)     | 13.6 (11.8-15.5)                    | 14.5 (12.9-16.2)    | 11.8 (10.0-13.6)            | 24.9 (22.3-27.4) | 14.8 (12.9-16.7) | 5.5 (4.4-6.9)       | 3.9 (2.9-5.1)  | 27.2 (24.7-29.8)  |
| Big Horn                 | 109.2 (77.7-149.5) | 91.4 (64.5-127.7)                | 73.5 (49.1-106.5)    | 26.1 (12.8-49.1)                    | 8.7 (3.2-25.6)      | ¥                           | 28.1 (13.2-53.9) | 24.2 (10.5-47.6) | ¥                   | ¥              | 33.0 (17.6-58.2)  |
| Yellowstone              | 85.3 (80.7-90.0)   | 68.4 (64.3-72.5)                 | 51.8 (48.3-55.4)     | 13.2 (11.3-15.1)                    | 14.6 (12.9-16.3)    | 11.8 (10.0-13.6)            | 24.8 (22.2-27.3) | 14.5 (12.6-16.5) | 5.6 (4.4-7.0)       | 3.9 (2.9-5.1)  | 27.0 (24.5-29.6)  |
| <b>Flathead</b>          | 83.3 (79.6-86.9)   | 69.7 (66.4-73.0)                 | 52.9 (50.0-55.8)     | 16.2 (14.6-17.8)                    | 12.3 (11.1-13.6)    | 11.4 (10.0-12.8)            | 25.4 (23.4-27.4) | 16.8 (15.1-18.4) | 4.4 (3.5-5.2)       | 3.2 (2.5-4.0)  | 30.6 (28.4-32.7)  |
| Flathead                 | 86.1 (80.2-92.0)   | 71.7 (66.4-77.1)                 | 55.7 (51.0-60.3)     | 16.6 (13.9-19.2)                    | 12.7 (10.7-14.7)    | 12.8 (10.4-15.1)            | 26.2 (22.8-29.5) | 17.3 (14.6-20.0) | 5.5 (4.0-7.4)       | 3.1 (2.0-4.5)  | 31.3 (27.8-34.9)  |
| Lake                     | 97.7 (83.7-111.7)  | 80.5 (68.0-93.0)                 | 63.1 (51.9-74.3)     | 23.8 (16.8-32.3)                    | 10.3 (7.1-14.9)     | 14.9 (9.2-22.2)             | 31.0 (23.5-40.4) | 22.7 (16.4-30.6) | 4.4 (1.6-9.0)       | 3.2 (1.0-7.6)  | 37.6 (29.4-47.4)  |
| Missoula                 | 77.1 (71.9-82.3)   | 63.8 (59.1-68.5)                 | 48.1 (44.0-52.2)     | 12.6 (10.5-14.7)                    | 13.3 (11.2-15.4)    | 10.6 (8.6-12.6)             | 23.6 (20.7-26.4) | 15.0 (12.8-17.3) | 3.6 (2.6-5.0)       | 3.1 (2.1-4.3)  | 28.0 (24.9-31.1)  |
| Sanders                  | 119.3 (96.7-141.9) | 112.5 (90.4-134.5)               | 76.9 (59.0-94.8)     | 42.7 (29.7-59.4)                    | 10.1 (5.0-18.8)     | 5.0 (1.8-12.5)              | 33.0 (21.7-47.8) | 23.5 (14.3-36.4) | ¥                   | 5.1 (1.4-12.9) | 41.1 (28.8-56.9)  |
| <b>Fort Belknap</b>      | 79.9 (59.6-104.7)  | 78.1 (58.0-103.3)                | 46.1 (31.6-65.5)     | 20.1 (9.5-35.9)                     | 13.3 (7.6-23.9)     | 0                           | 30.0 (17.9-47.2) | 23.4 (12.6-39.1) | ¥                   | 0              | 35.1 (21.9-52.9)  |
| Blaine                   | 73.8 (45.8-112.4)  | 70.0 (42.9-107.7)                | 42.9 (23.1-73.5)     | ¥                                   | 17.0 (7.6-36.9)     | 0                           | 27.4 (10.5-55.9) | 19.0 (5.7-43.8)  | ¥                   | 0              | 27.9 (12.2-54.0)  |
| Phillips                 | 86.0 (56.9-125.1)  | 86.0 (56.9-125.1)                | 49.8 (28.3-81.2)     | 27.6 (11.1-55.5)                    | 10.2 (3.7-27.7)     | 0                           | 32.2 (16.0-59.1) | 27.1 (11.9-53.1) | ¥                   | 0              | 41.4 (23.1-70.1)  |
| <b>Fort Peck</b>         | 97.2 (81.4-113.0)  | 88.1 (73.2-103.0)                | 73.9 (60.3-87.5)     | 26.9 (18.5-37.4)                    | 16.3 (11.8-22.6)    | 6.5 (2.7-13.0)              | 20.7 (13.6-29.9) | 16.5 (10.5-24.8) | ¥                   | ¥              | 37.8 (28.6-49.2)  |
| Daniels                  | 97.3 (51.7-167.8)  | 94.3 (47.2-165.7)                | 67.6 (31.5-129.1)    | ¥                                   | ¥                   | 0                           | ¥                | ¥                | 0                   | 0              | 43.0 (13.3-101.2) |
| Roosevelt                | 93.0 (63.3-129.9)  | 82.4 (55.1-118.1)                | 77.0 (50.4-111.9)    | 23.8 (9.8-48.0)                     | 16.4 (7.2-34.2)     | ¥                           | ¥                | ¥                | ¥                   | ¥              | 33.8 (17.3-60.1)  |
| Sheridan                 | 113.5 (79.6-156.6) | 100.3 (70.0-140.7)               | 92.2 (63.1-130.4)    | 31.4 (13.6-60.5)                    | 25.0 (14.4-45.6)    | ¥                           | 17.6 (5.6-42.7)  | ¥                | ¥                   | 0              | 32.3 (16.2-58.4)  |
| Valley                   | 90.1 (68.5-116.5)  | 82.7 (61.9-108.1)                | 63.1 (45.4-85.4)     | 26.1 (14.7-42.7)                    | 12.8 (7.4-23.0)     | ¥                           | 25.0 (14.0-40.9) | 22.0 (11.5-37.6) | 0                   | ¥              | 40.9 (26.7-60.3)  |
| <b>Little Shell</b>      | 84.3 (77.8-90.9)   | 71.9 (65.9-77.8)                 | 52.1 (47.1-57.1)     | 13.8 (11.0-16.5)                    | 16.0 (13.6-18.3)    | 8.9 (6.6-11.6)              | 24.9 (21.2-28.6) | 15.2 (12.3-18.0) | 5.7 (4.0-7.8)       | 3.3 (2.0-5.0)  | 29.5 (25.6-33.4)  |
| Cascade                  | 84.3 (77.8-90.9)   | 71.9 (65.9-77.8)                 | 52.1 (47.1-57.1)     | 13.8 (11.0-16.5)                    | 16.0 (13.6-18.3)    | 8.9 (6.6-11.6)              | 24.9 (21.2-28.6) | 15.2 (12.3-18.0) | 5.7 (4.0-7.8)       | 3.3 (2.0-5.0)  | 29.5 (25.6-33.4)  |
| <b>Northern Cheyenne</b> | 102.7 (81.9-123.6) | 92.9 (73.3-112.5)                | 73.3 (56.8-93.1)     | 30.3 (19.7-44.7)                    | 17.2 (10.5-27.5)    | 7.6 (2.5-17.2)              | 26.1 (16.4-39.7) | 19.6 (11.6-31.7) | ¥                   | ¥              | 35.6 (24.0-50.8)  |
| Big Horn                 | 109.2 (77.7-149.5) | 91.4 (64.5-127.7)                | 73.5 (49.1-106.5)    | 26.1 (12.8-49.1)                    | 8.7 (3.2-25.6)      | ¥                           | 28.1 (13.2-53.9) | 24.2 (10.5-47.6) | ¥                   | ¥              | 33.0 (17.6-58.2)  |
| Rosebud                  | 96.4 (71.7-127.9)  | 92.6 (68.2-123.8)                | 71.4 (50.1-99.4)     | 32.8 (18.2-54.2)                    | 23.3 (12.9-39.8)    | ¥                           | 25.0 (12.7-45.1) | 16.5 (6.7-33.4)  | ¥                   | 0              | 37.4 (22.1-59.2)  |
| <b>Rocky Boy</b>         | 72.8 (59.7-85.8)   | 66.5 (54.1-78.8)                 | 48.6 (38.8-60.1)     | 13.3 (8.2-20.4)                     | 18.4 (13.1-25.4)    | 5.0 (1.9-10.5)              | 19.2 (12.6-27.8) | 13.4 (7.9-21.0)  | 4.3 (1.4-9.6)       | 3.6 (1.1-8.3)  | 25.0 (17.8-34.0)  |
| Chouteau                 | 79.1 (54.3-111.5)  | 69.7 (47.1-100.1)                | 56.2 (36.5-84.0)     | 19.4 (7.3-39.3)                     | 17.6 (9.1-34.2)     | ¥                           | 17.9 (7.2-37.0)  | 11.6 (3.6-29.0)  | ¥                   | ¥              | 19.0 (8.0-38.3)   |
| Hill                     | 70.5 (56.1-87.4)   | 64.9 (50.9-81.2)                 | 46.0 (34.9-59.6)     | 11.2 (6.1-19.0)                     | 18.8 (12.2-27.6)    | 4.7 (1.3-11.4)              | 19.8 (11.9-31.1) | 14.0 (7.3-23.6)  | 4.7 (1.3-11.4)      | ¥              | 27.6 (19.1-38.9)  |

Notes: ¥ indicates rate suppressed due to N<5. Bridged race death certificate variable and population estimates used for 2020 and earlier, single race death certificate variable and population estimates used for 2021 and later. Single race population estimates include a multi-racial category, resulting in an 8% reduction from 2020 to 2021 in the estimated population of AI/AN Montanans.

**Table 14. Fatality counts for selected injury indicators by counties that correspond with Montana American Indian reservations, White, 2014-2023**

| White                    | All Injury | Injury (excluding drug overdose) | Unintentional injury | Unintentional Motor Vehicle Traffic | Unintentional Falls | Unintentional Drug Overdose | Suicide | Firearm Suicide | Suffocation Suicide | Homicide | TBI |
|--------------------------|------------|----------------------------------|----------------------|-------------------------------------|---------------------|-----------------------------|---------|-----------------|---------------------|----------|-----|
| <b>Blackfeet</b>         | 78         | 73                               | 53                   | 12                                  | 24                  | 3                           | 21      | 17              | 3                   | 2        | 29  |
| Glacier                  | 30         | 26                               | 18                   | 5                                   | 6                   | 3                           | 10      | 7               | 2                   | 1        | 10  |
| Pondera                  | 48         | 47                               | 35                   | 7                                   | 18                  | 0                           | 11      | 10              | 1                   | 1        | 19  |
| <b>Crow</b>              | 1,444      | 1,191                            | 920                  | 213                                 | 302                 | 175                         | 393     | 242             | 81                  | 56       | 474 |
| Big Horn                 | 52         | 47                               | 37                   | 14                                  | 6                   | 4                           | 13      | 12              | 1                   | 1        | 17  |
| Yellowstone              | 1,392      | 1,144                            | 883                  | 199                                 | 296                 | 171                         | 380     | 230             | 80                  | 55       | 457 |
| <b>Flathead</b>          | 2,190      | 1,861                            | 1,423                | 408                                 | 379                 | 272                         | 646     | 438             | 101                 | 74       | 809 |
| Flathead                 | 903        | 762                              | 605                  | 164                                 | 162                 | 124                         | 256     | 173             | 49                  | 30       | 327 |
| Lake                     | 237        | 206                              | 156                  | 48                                  | 40                  | 24                          | 73      | 54              | 8                   | 6        | 93  |
| Missoula                 | 900        | 753                              | 561                  | 147                                 | 160                 | 116                         | 277     | 181             | 42                  | 33       | 333 |
| Sanders                  | 150        | 140                              | 101                  | 49                                  | 17                  | 8                           | 40      | 30              | 2                   | 5        | 56  |
| <b>Fort Belknap</b>      | 64         | 63                               | 40                   | 12                                  | 17                  | 0                           | 22      | 18              | 3                   | 0        | 29  |
| Blaine                   | 27         | 26                               | 18                   | 3                                   | 10                  | 0                           | 8       | 6               | 1                   | 0        | 10  |
| Phillips                 | 37         | 37                               | 22                   | 9                                   | 7                   | 0                           | 14      | 12              | 2                   | 0        | 19  |
| <b>Fort Peck</b>         | 181        | 168                              | 143                  | 40                                  | 49                  | 8                           | 33      | 27              | 2                   | 3        | 68  |
| Daniels                  | 17         | 16                               | 13                   | 3                                   | 3                   | 0                           | 4       | 3               | 0                   | 0        | 6   |
| Roosevelt                | 38         | 34                               | 31                   | 8                                   | 10                  | 3                           | 4       | 3               | 1                   | 2        | 13  |
| Sheridan                 | 49         | 45                               | 42                   | 10                                  | 17                  | 3                           | 6       | 4               | 1                   | 0        | 14  |
| Valley                   | 77         | 73                               | 57                   | 19                                  | 19                  | 2                           | 19      | 17              | 0                   | 1        | 35  |
| <b>Little Shell</b>      | 710        | 629                              | 467                  | 106                                 | 183                 | 58                          | 191     | 120             | 40                  | 24       | 248 |
| Cascade                  | 710        | 629                              | 467                  | 106                                 | 183                 | 58                          | 191     | 120             | 40                  | 24       | 248 |
| <b>Northern Cheyenne</b> | 113        | 104                              | 83                   | 32                                  | 23                  | 7                           | 28      | 22              | 4                   | 1        | 39  |
| Big Horn                 | 52         | 47                               | 37                   | 14                                  | 6                   | 4                           | 13      | 12              | 1                   | 1        | 17  |
| Rosebud                  | 61         | 57                               | 46                   | 18                                  | 17                  | 3                           | 15      | 10              | 3                   | 0        | 22  |
| <b>Rocky Boy</b>         | 136        | 127                              | 99                   | 26                                  | 44                  | 7                           | 29      | 21              | 6                   | 6        | 48  |
| Chouteau                 | 44         | 41                               | 32                   | 9                                   | 14                  | 2                           | 9       | 7               | 1                   | 2        | 11  |
| Hill                     | 92         | 86                               | 67                   | 17                                  | 30                  | 5                           | 20      | 14              | 5                   | 4        | 37  |

Notes: Bridged race death certificate variable used for 2020 and earlier, single race death certificate variable used for 2021 and later.



## Appendix B. County Properties

| FIPS Code | County        | NCHS Urban-Rural Grouping | IDD                                |
|-----------|---------------|---------------------------|------------------------------------|
| 30001     | Beaverhead    | Noncore                   | Advantaged                         |
| 30003     | Big Horn      | Noncore                   | Disadvantaged & Most Disadvantaged |
| 30005     | Blaine        | Noncore                   | Disadvantaged & Most Disadvantaged |
| 30007     | Broadwater    | Noncore                   | Most Advantaged                    |
| 30009     | Carbon        | Small metro               | Most Advantaged                    |
| 30011     | Carter        | Noncore                   | Most Advantaged                    |
| 30013     | Cascade       | Small metro               | Advantaged                         |
| 30015     | Chouteau      | Noncore                   | Neutral                            |
| 30017     | Custer        | Noncore                   | Most Advantaged                    |
| 30019     | Daniels       | Noncore                   | Most Advantaged                    |
| 30021     | Dawson        | Noncore                   | Most Advantaged                    |
| 30023     | Deer Lodge    | Noncore                   | Disadvantaged & Most Disadvantaged |
| 30025     | Fallon        | Noncore                   | Most Advantaged                    |
| 30027     | Fergus        | Noncore                   | Advantaged                         |
| 30029     | Flathead      | Micropolitan              | Advantaged                         |
| 30031     | Gallatin      | Micropolitan              | Advantaged                         |
| 30033     | Garfield      | Noncore                   | Most Advantaged                    |
| 30035     | Glacier       | Noncore                   | Disadvantaged & Most Disadvantaged |
| 30037     | Golden Valley | Small metro               | Advantaged                         |
| 30039     | Granite       | Noncore                   | Most Advantaged                    |
| 30041     | Hill          | Noncore                   | Neutral                            |
| 30043     | Jefferson     | Micropolitan              | Most Advantaged                    |
| 30045     | Judith Basin  | Noncore                   | Most Advantaged                    |
| 30047     | Lake          | Noncore                   | Neutral                            |
| 30049     | Lewis & Clark | Micropolitan              | Advantaged                         |
| 30051     | Liberty       | Noncore                   | Advantaged                         |
| 30053     | Lincoln       | Noncore                   | Advantaged                         |
| 30055     | McCone        | Noncore                   | Most Advantaged                    |
| 30057     | Madison       | Noncore                   | Most Advantaged                    |
| 30059     | Meagher       | Noncore                   | Advantaged                         |
| 30061     | Mineral       | Noncore                   | Neutral                            |
| 30063     | Missoula      | Small metro               | Advantaged                         |
| 30065     | Musselshell   | Noncore                   | Advantaged                         |
| 30067     | Park          | Noncore                   | Advantaged                         |
| 30069     | Petroleum     | Noncore                   | Advantaged                         |
| 30071     | Phillips      | Noncore                   | Advantaged                         |
| 30073     | Pondera       | Noncore                   | Advantaged                         |
| 30075     | Powder River  | Noncore                   | Most Advantaged                    |
| 30077     | Powell        | Noncore                   | Advantaged                         |
| 30079     | Prairie       | Noncore                   | Advantaged                         |
| 30081     | Ravalli       | Noncore                   | Advantaged                         |
| 30083     | Richland      | Noncore                   | Most Advantaged                    |
| 30085     | Roosevelt     | Noncore                   | Disadvantaged & Most Disadvantaged |
| 30087     | Rosebud       | Noncore                   | Disadvantaged & Most Disadvantaged |
| 30089     | Sanders       | Noncore                   | Neutral                            |
| 30091     | Sheridan      | Noncore                   | Most Advantaged                    |
| 30093     | Silver Bow    | Micropolitan              | Neutral                            |
| 30095     | Stillwater    | Noncore                   | Most Advantaged                    |
| 30097     | Sweet Grass   | Noncore                   | Most Advantaged                    |
| 30099     | Teton         | Noncore                   | Most Advantaged                    |
| 30101     | Toole         | Noncore                   | Neutral                            |
| 30103     | Treasure      | Noncore                   | Advantaged                         |
| 30105     | Valley        | Noncore                   | Most Advantaged                    |
| 30107     | Wheatland     | Noncore                   | Advantaged                         |
| 30109     | Wibaux        | Noncore                   | Most Advantaged                    |
| 30111     | Yellowstone   | Small metro               | Advantaged                         |





## References

1. Centers for Disease Control and Prevention, National Center for Injury Prevention and Control. Web-based Injury Statistics Query and Reporting System (WISQARS) [Internet]. Available from: <https://wisqars.cdc.gov/>
2. Montana Department of Public Health and Human Services. Montana Vital Statistics Analysis Unit.
3. Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System. Mortality on CDC WONDER Online Database. 2014-2020 Data are from Underlying Cause of Death by Bridged-Race Categories and 2021-2023 data are from Underlying Cause of Death by Single-Race Categories, as compiled from data provided by the 57 vital statistic [Internet]. Available from: <https://wonder.cdc.gov/>
4. Ingram D, Franco S. 2013 NCHS urban–rural classification scheme for counties [Internet]. Vol. 2, Vital Health Stat. 2014. Available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_166.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_166.pdf)
5. University of Michigan. Understanding Communities of Deep Disadvantage [Internet]. 2020 [cited 2022 May 17]. Available from: <https://poverty.umich.edu/projects/understanding-communities-of-deep-disadvantage/>
6. National Highway Traffic Safety Administration. State Traffic Safety Information [Internet]. Available from: <https://cdan.dot.gov/STSI/stsi.htm#>
7. Tefft BC. Traffic Safety Impact of the COVID-19 Pandemic : Fatal Crashes in 2020 – 2022 (Research Brief) [Internet]. Washington DC; 2024. Available from: <https://aaafoundation.org/wp-content/uploads/2024/07/202407-AAAF-TS-Impact-of-COVID.pdf>
8. EMS and Trauma System Section. Drug Overdose Deaths in Montana 2014-2023 [Internet]. Helena, MT; 2024. Available from: Homicide deaths were higher among males, AI/AN people, people aged 25-44, residents of rural counties, and residents of disadvantaged counties (Figure 15).
9. Tiwari RC, Li Y, Zou Z. Interval Estimation for Ratios of Correlated Age-Adjusted Rates. *J Data Sci.* 2010;8(3):471–82.
10. Sheets NW, Fawibe OS, Mahmoud A, Chawla-Kondal B, Ayutyanont N, Plurad DS. Impact of the COVID-19 Pandemic on Trauma Encounters. *Am Surg.* 2023;89(3):434–9.
11. He J, Ning P, Schwebel DC, Yang Y, Li L, Cheng P, et al. Injury mortality and morbidity changes due to the COVID-19 pandemic in the United States. *Front Public Heal.* 2022;10.
12. Thomas K, Johnson R. State Injury Indicators : Instructions for Preparing 2022 Data. Atlanta (GA); 2024.
13. Montana Injury Prevention Program. Injury Indicator Definitions [Internet]. Helena, MT; 2024. Available from: <https://dphhs.mt.gov/assets/publichealth/EMSTS/Data/MTInjuryIndicators.pdf>
14. National Center for Health Statistics. Postcensal estimates of the resident population of the United States for April 1, 2010, July 1, 2010–July 1, 2020. United States resident population by year, county, single-year of age, bridged race, Hispanic origin, and sex [Internet]. Prepared under a collaborative arrangement with the U.S. Census Bureau; 2021. Available from: [https://www.cdc.gov/nchs/nvss/bridged\\_race/data\\_documentation.htm#vintage2020](https://www.cdc.gov/nchs/nvss/bridged_race/data_documentation.htm#vintage2020)
15. US Census Bureau, Montana Department of Commerce Census and Economic Information Center (CEIC). Vintage 2023 Montana population data with single year age, detailed race, ethnicity, and sex by county. 2024.
16. Public Health and Safety Division. Population Data Sources [Internet]. Helena, MT; 2024. Available from: <https://dphhs.mt.gov/assets/publichealth/Epidemiology/VSU/PopulationDataSourcesandRecomendationsforMontanaPublicHealthandSafetyDivisionStaff.pdf>
17. Klein RJ, Schoenborn CA. Age adjustment using the 2000 projected U.S. population. *Healthy People 2000 Stat Notes* [Internet]. 2001;(20):1–9. Available from: <https://www.cdc.gov/nchs/data/statnt/statnt20.pdf>
18. Public Health and Safety Division. Guidelines for Release of Public Health Data [Internet]. Helena, MT; 2024. Available from: <https://dphhs.mt.gov/assets/publichealth/PHSDGuidelinesforreleaseofpublichealthdata2024.pdf>
19. Fay MP, Feuer EJ. Confidence Intervals for Directly Standardized Rates: a Method Based on the Gamma Distribution. *Stat Med.* 1997;16(7):791–801.
20. Ingram D, Malec D, Makuc D, Kruszon-Moran D, Gindi R, Albert M. National Center for Health Statistics Guidelines for Analysis of Trends [Internet]. Vital Health STat; 2018. Available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf)

