

Profile of Rail-Related Injuries for Greater Sacramento

RAIL SAFETY

A pedestrian or other road user is involved in a collision with a train every three hours in the U.S., and 1 in 10 of these involves children ages 19 and under.^{1,2} These incidents are often deadly, and, most importantly, are preventable. They are primarily the result of two types of incidents:

- **Trespassing injuries** occur when a person is injured while on private railroad property without permission. They are most often pedestrians taking a shortcut across or along tracks, but also include loiterers and those engaging in recreational activities such as hunting or jogging.¹
- **Railroad crossing injuries** are when a person or highway user is struck by a train while attempting to cross at a designated crossing where tracks intersect a roadway or walkway at the same level.

This profile describes data reported to the Federal Railroad Administration (FRA) on trespassing and railroad crossing injuries occurring in Greater Sacramento area. Data are for years 2011 to 2020 and are combined for the California counties of Sacramento, Yuba, Placer, Yolo, Nevada, and Sutter (no injuries were reported for El Dorado County). Injuries are divided into trespassing injuries and railroad crossing injuries. Data include both fatal and nonfatal rail-related injuries. Excluded from this profile are injuries to rail passengers and rail workers, as well as cases of suicides and attempted suicide.

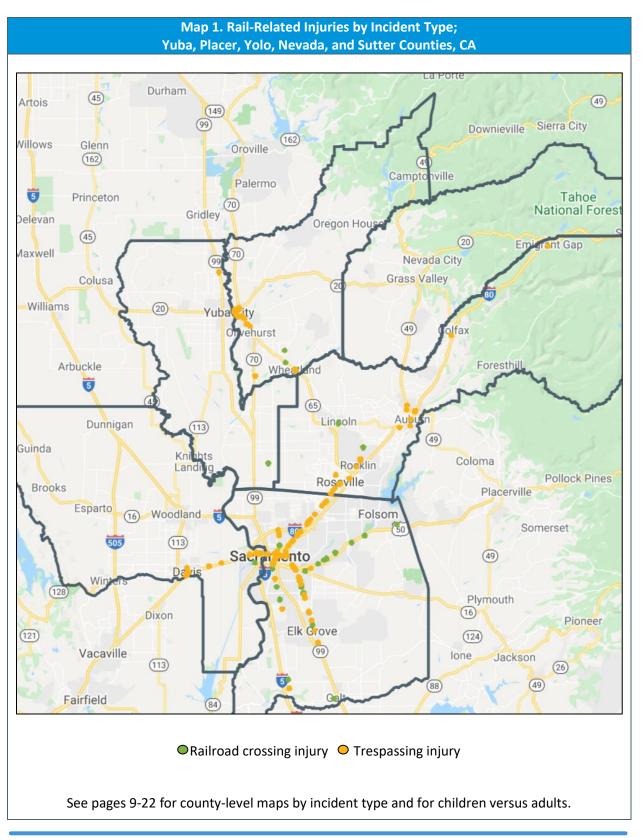
This report and other rail safety resources for families, educators and community partners can be downloaded from the **Safe Kids Rail Safety Station** online hub at <u>safekids.org/RailSafetyStation</u>.

Summary

- There were 195 rail-related injuries in the Greater Sacramento area from 2011 to 2020, most of which occurred in Sacramento County.
- Children ages 19 years and under accounted for about 1 in 10 injuries. There was a relatively even distribution of injuries from ages 20 to 49 years old.
- Rail-related injuries were most often the result of trespassing incidents, but railroad crossing injuries were more often fatal.
- Nine in 10 injuries involved on-track equipment, most of which were freight trains.
- Trespassing injuries predominated from fall through winter months (Sep-Feb), while the frequency of railroad crossing incidents varied little by season.
- Of those injured at railroad crossings, 7 in 10 were motor vehicle occupants and about 1 in 4 were pedestrians.
- Nearly 4 in 10 railroad crossing injuries occurred during dark or low-light hours. Of those, at least 4 in 10 occurred at crossings that weren't illuminated.
- Going through or around the crossing gates was the activity most associated with injury at railroad crossings.
- Of the 8 in 10 trespassers who were struck by on-track equipment, more than half were on the tracks when they were struck and 1 in 4 were beside the tracks.



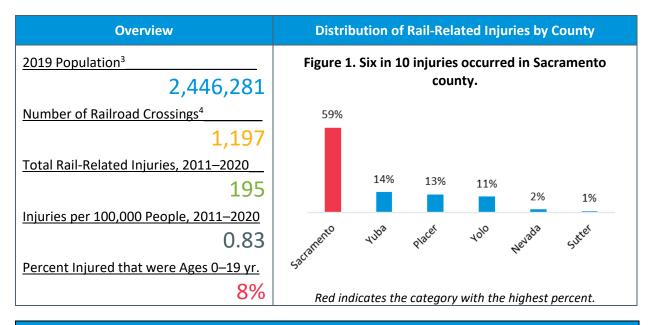




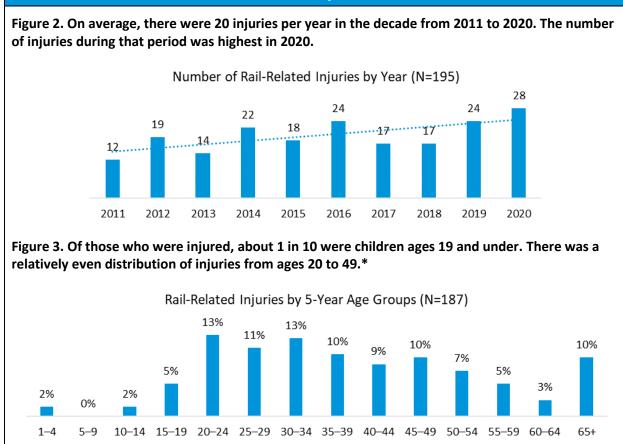


*Age data missing for 8 cases.



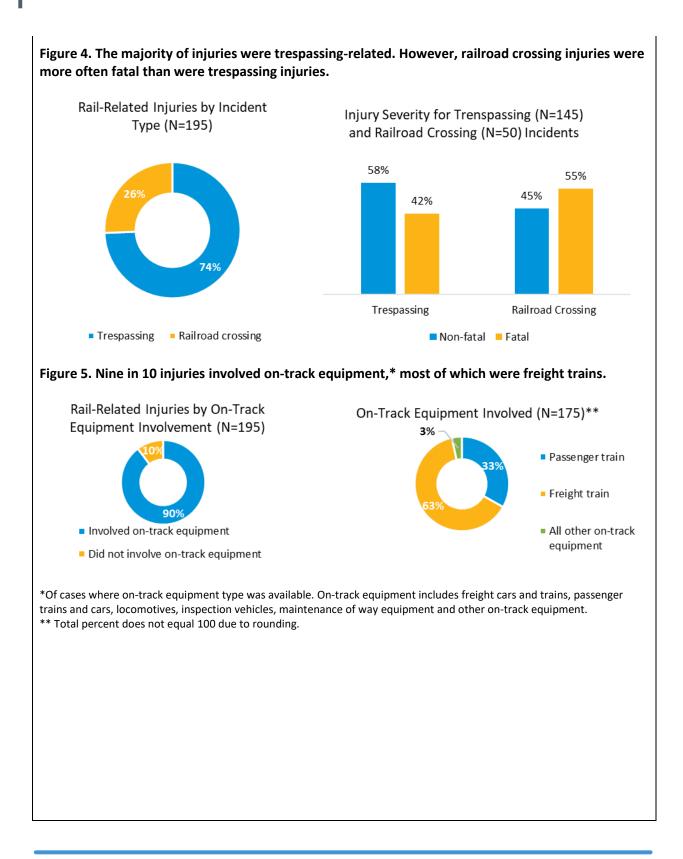


Overall Injuries



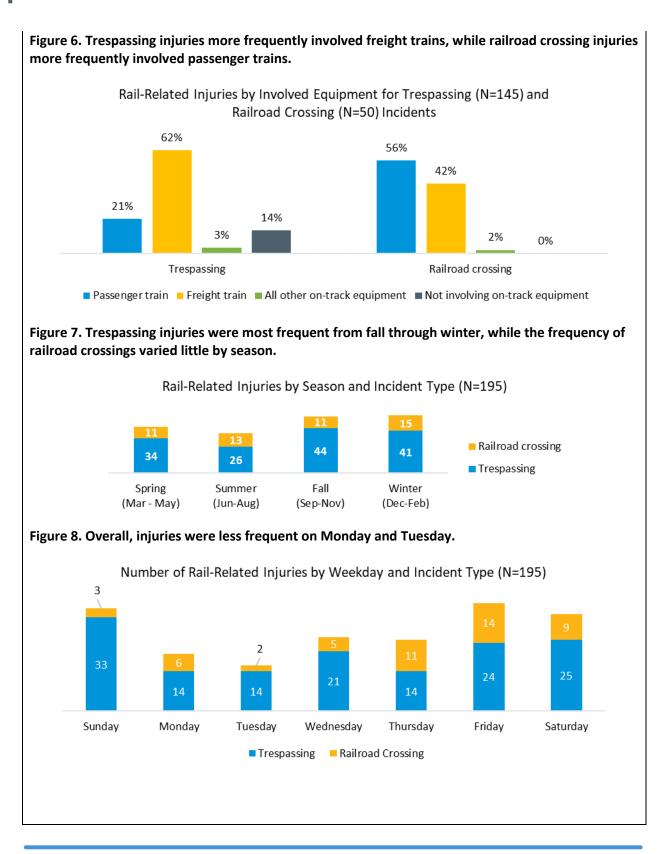






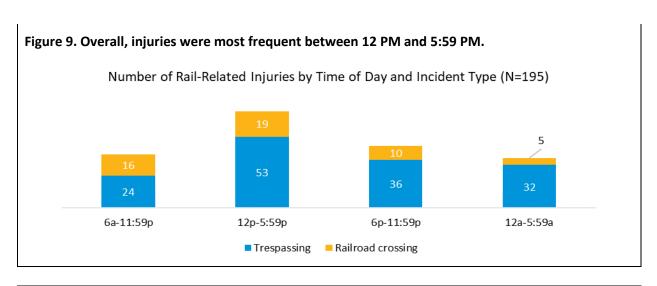


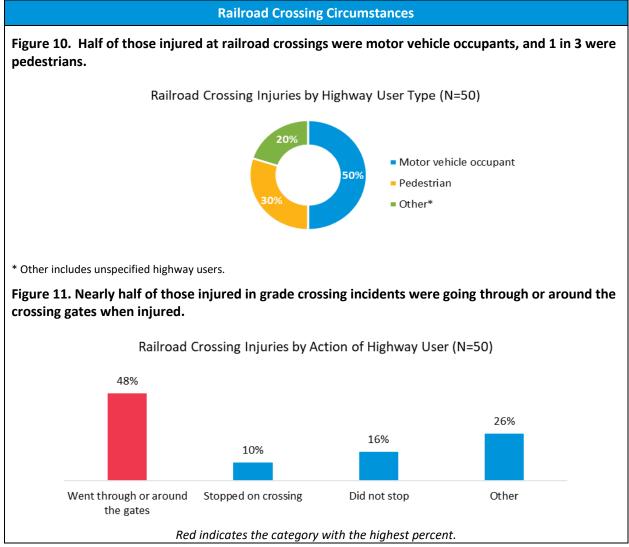






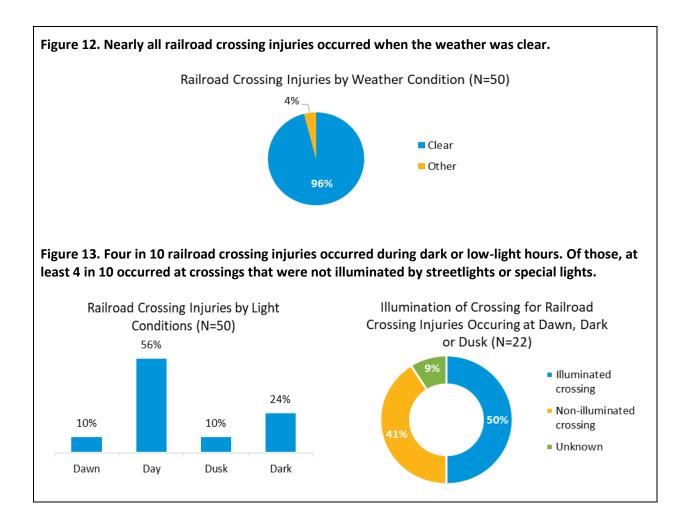








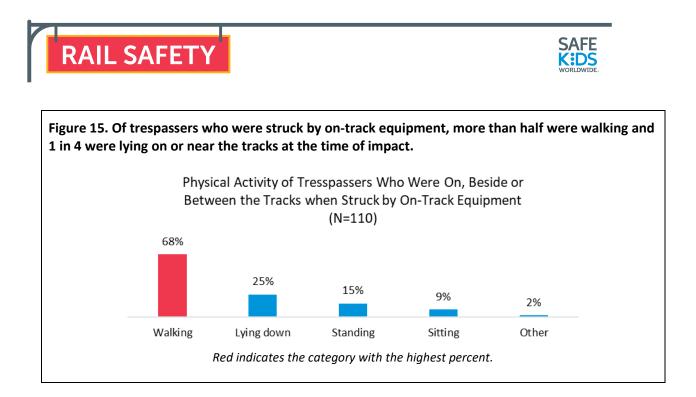




Trespassing Circumstances

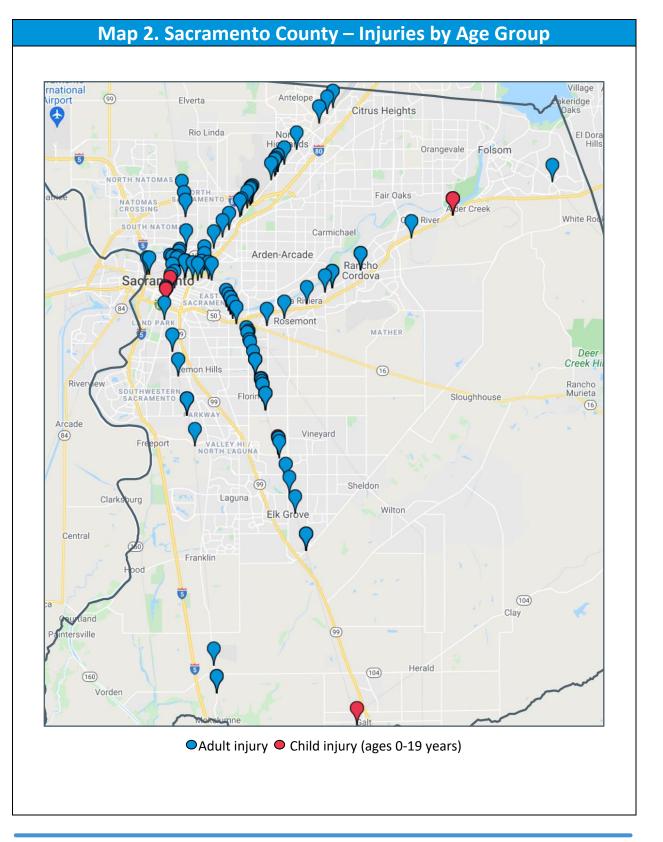
Figure 14. About 8 in 10 trespassers who were injured had been struck by on-track equipment. Of those, 6 in 10 were on the tracks at the time of impact. Trespassing Injuries by Injury Event Location of Trespassers When Struck Type (N=145) by On Track Equipment (N=114)* 79% 59% 23% 14% 15% 7% 4% Struck by on-track Slipped, fell, Other On the Beside the Between Other or equipment stumbled tracks tracks tracks unknown Red indicates the categories with the highest percents. * Total percent does not equal 100 due to rounding.







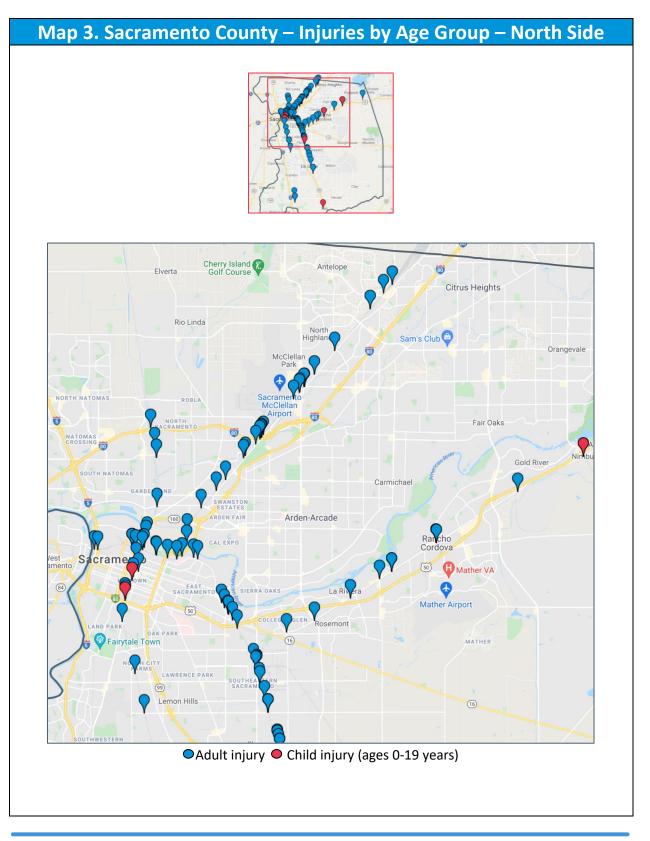






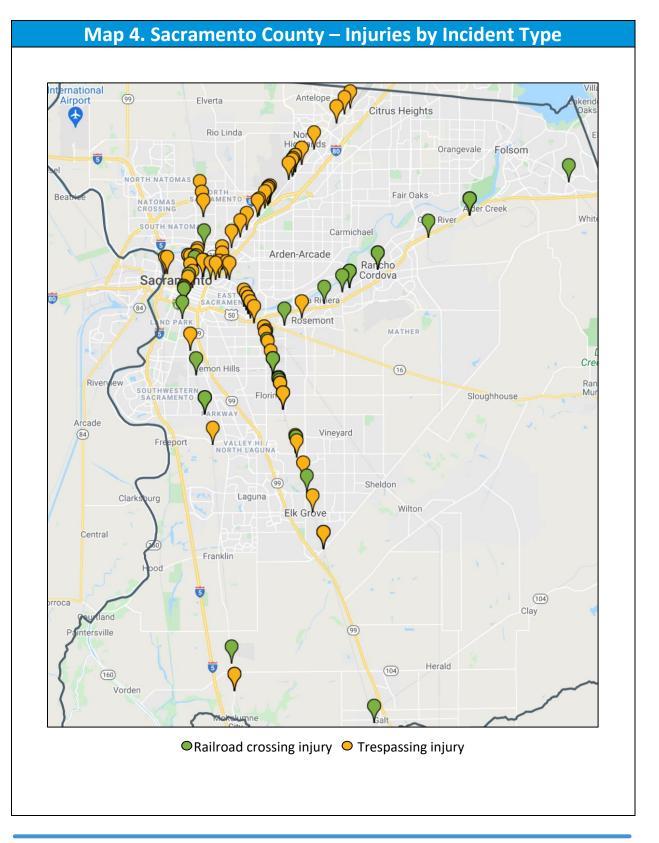






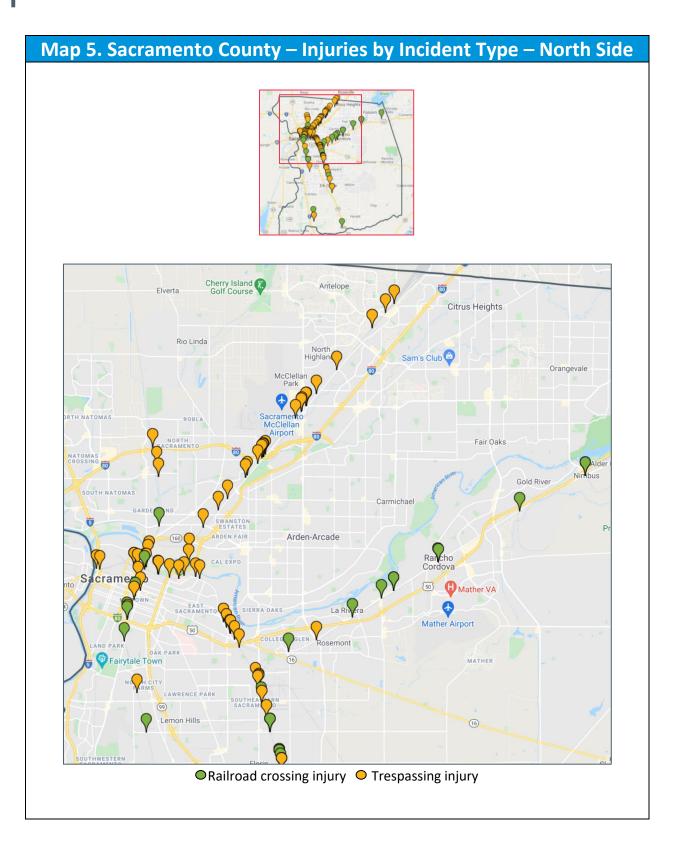






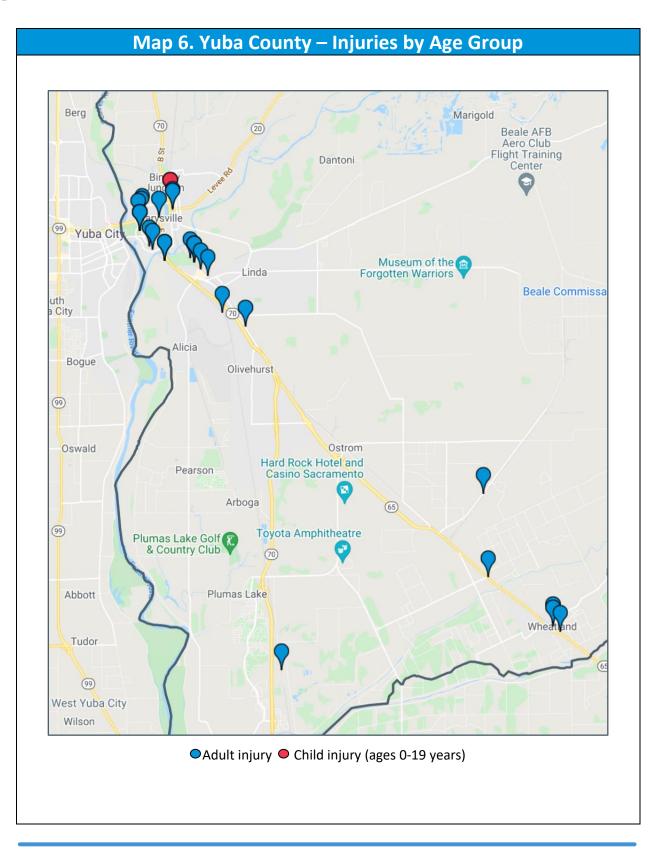






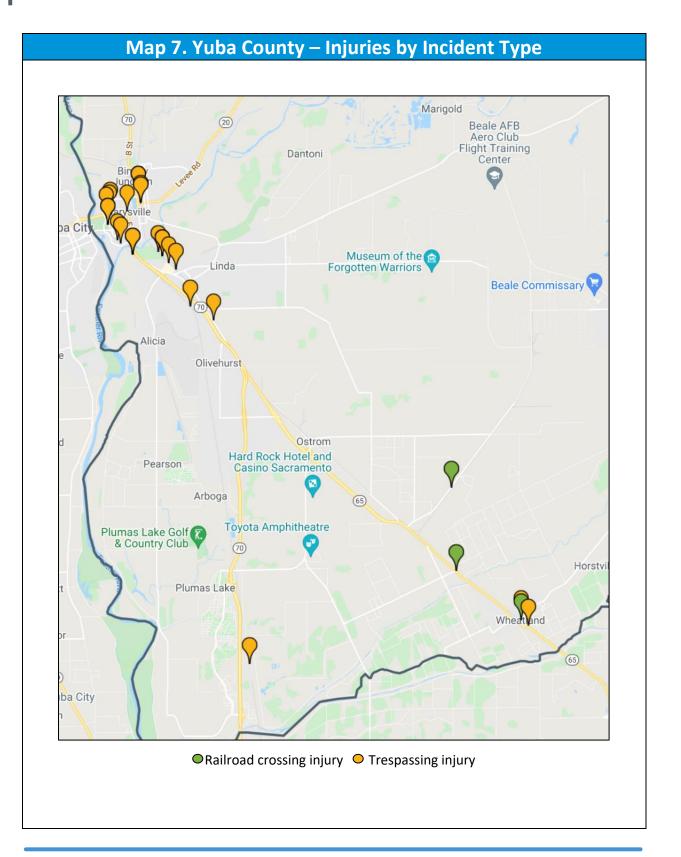






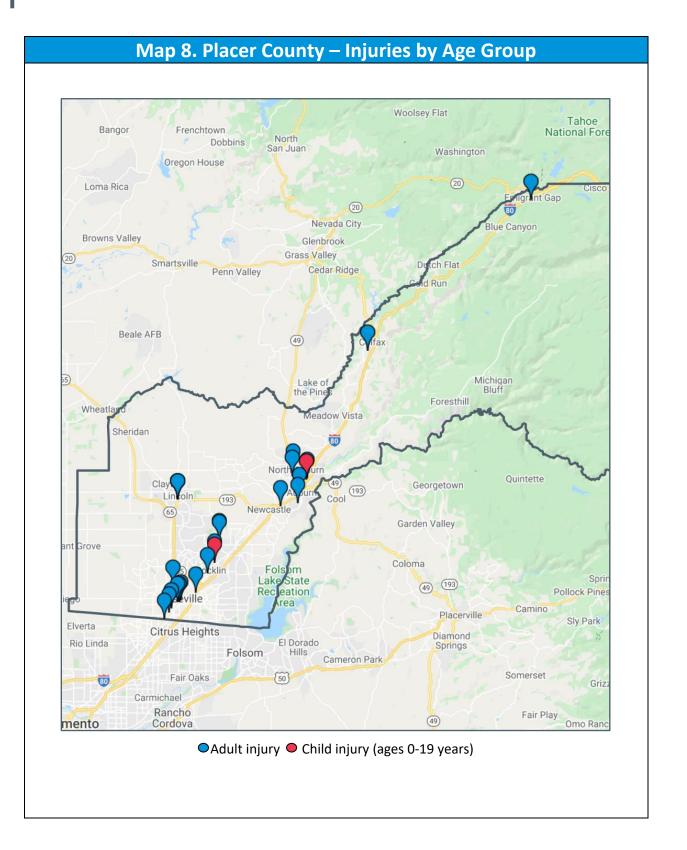






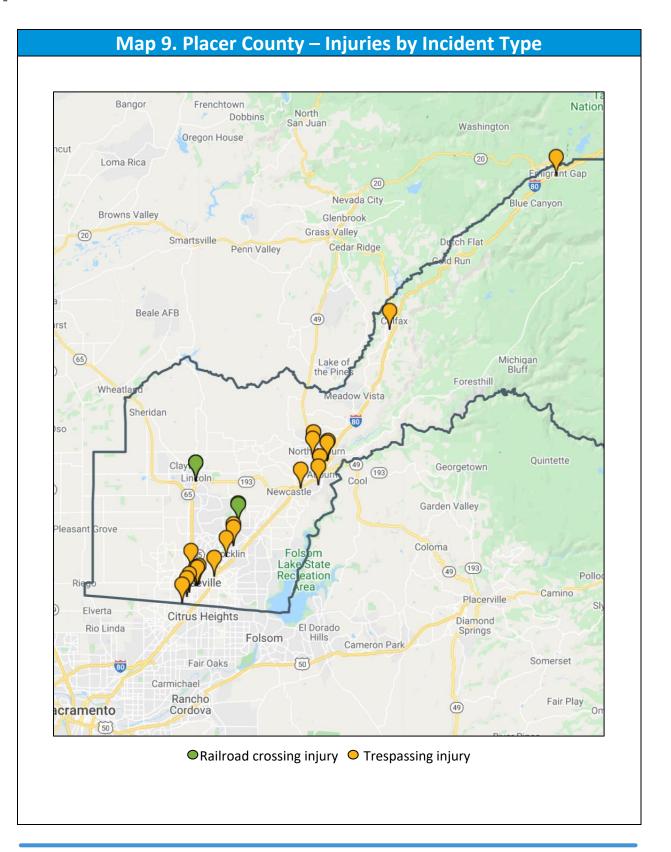






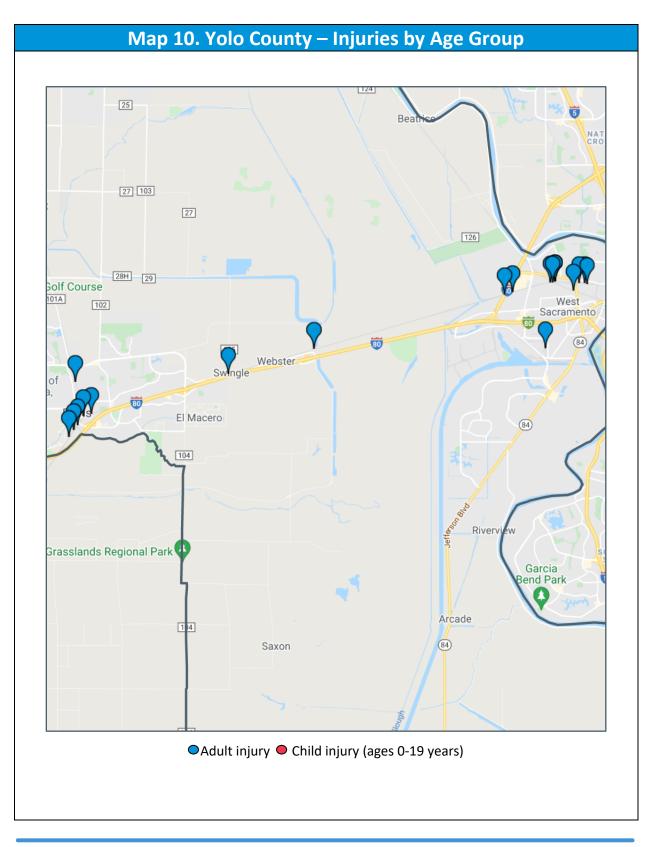






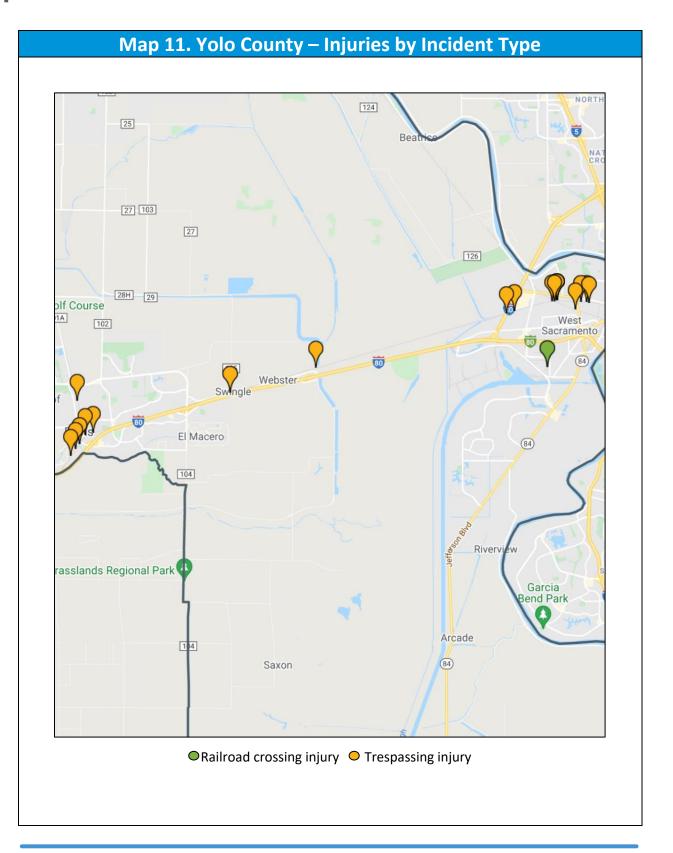






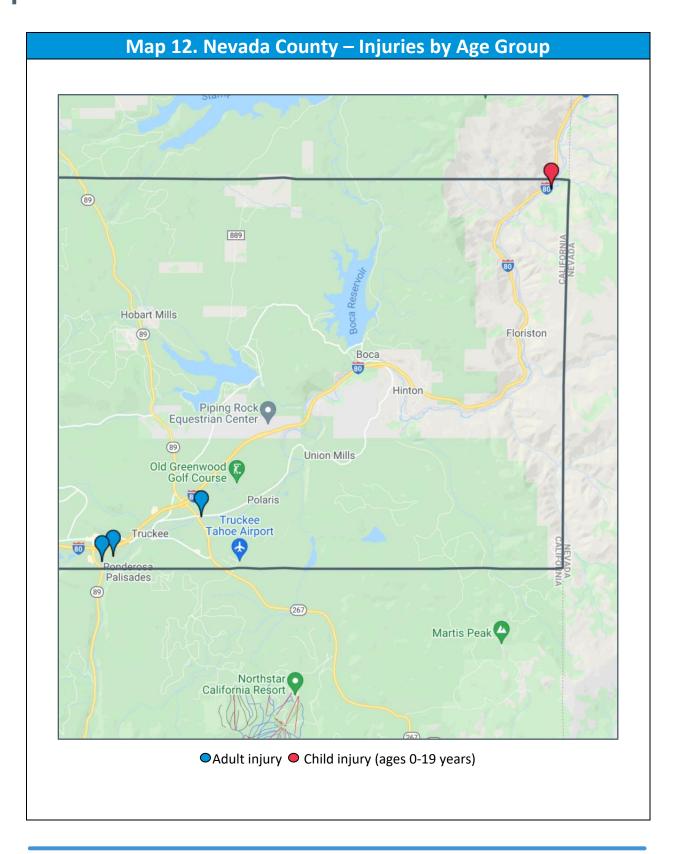






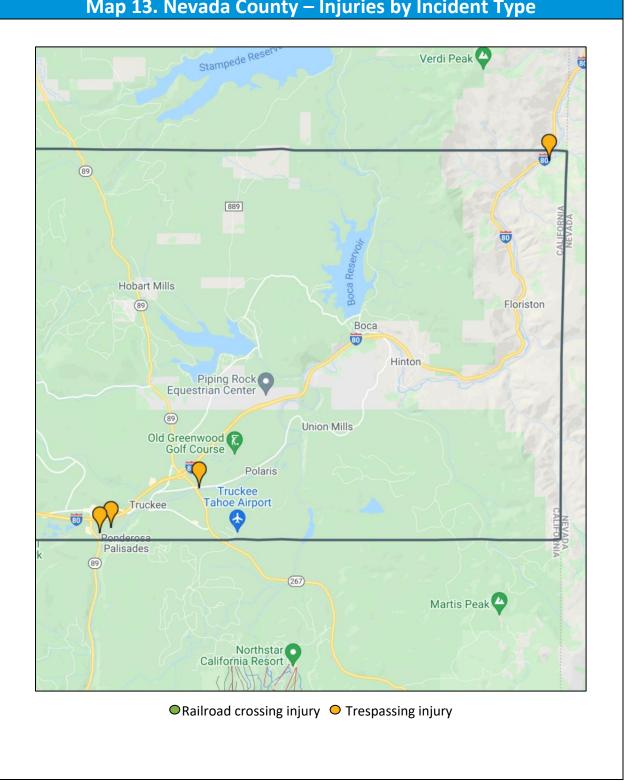








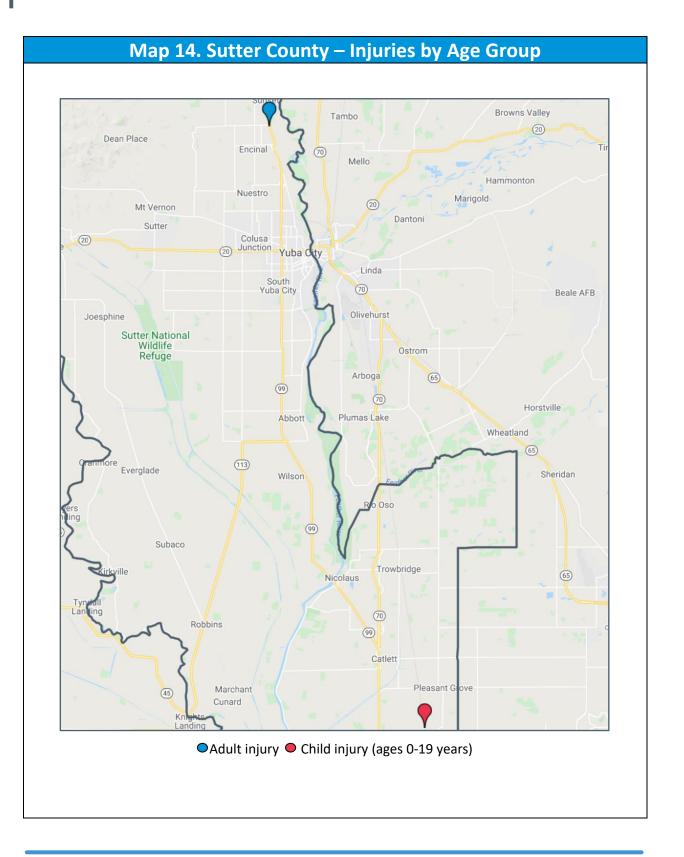






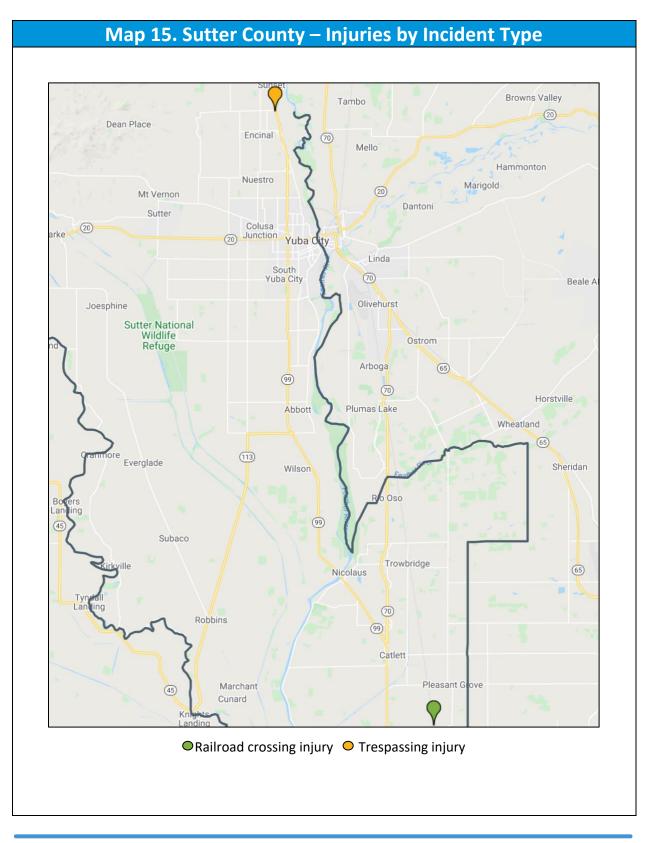
















Notes

Data source

Data on rail-related injuries presented in this profile were obtained from the Federal Railroad Administration's (FRA) Safety Railroad Casualties (form 6180.55A) and Highway Rail Accidents (form 6180.57) databases for years 2011–2020. Excluded were rail workers and rail passengers as well as cases of suicide or attempted suicide. Maps reflect locations of injuries where longitude and latitude data are provided in each case file.

References

1. Federal Railroad Association. Fact Sheet - Highway Rail Crossing & Trespassing. 2016. Available from: https://railroads.dot.gov/sites/fra.dot.gov/files/2019-10/rrx-fact-sheet-final12716.pdf. Accessed August 26, 2021.

2. Federal Railroad Association. Accident Data as Reported by Railroads 2009-2018. Available from: https://safetydata. fra.dot.gov/OfficeofSafety/publicsite/on_the_fly_download.aspx. Accessed August 26, 2021.

3. U.S. Census Bureau. Quick Facts. Available from: https://www.census.gov/quickfacts. Accessed August 26, 2021.

4. Current Crossing Data for State of California. 2021. Available from: https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/DownloadCrossingInventoryData.aspx. Accessed August 31, 2021.

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