

### Profile of Rail-Related Injuries for the Chicago Metropolitan Area

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.<sup>1,2</sup> 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.<sup>1</sup>
- 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 rail-related injuries occurring in the Chicago, IL metropolitan area. Data are for years 2011 to 2020 and are combined for Cook County and the Chicago collar counties of DuPage, Kane, Lake, McHenry and Will. 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 suicide and attempted suicide.

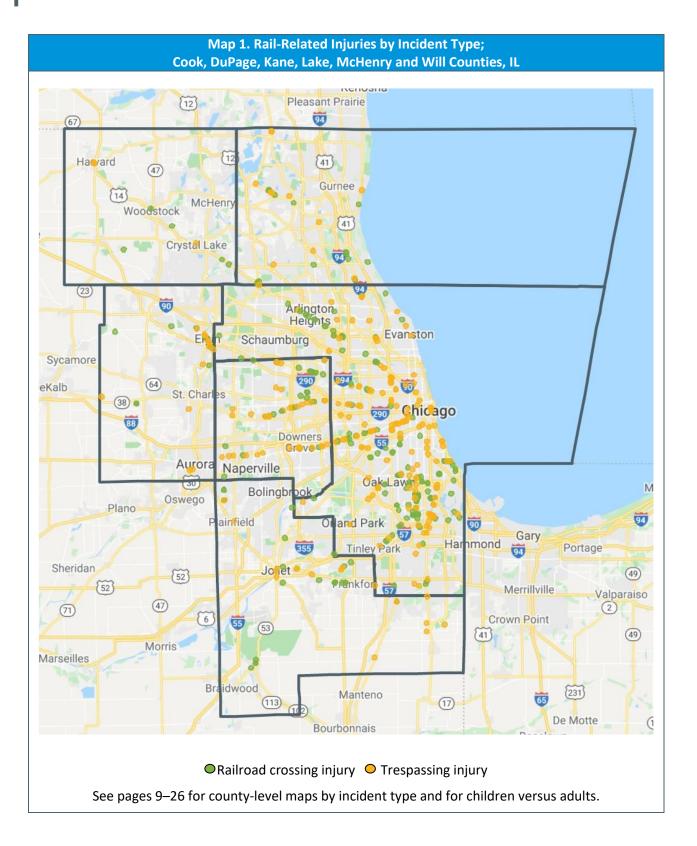
This report and other rail safety resources for families, educators and community partners can be downloaded from the **Safe Kids Rail Safety Station** online hub at <u>safekids.org/RailSafetyStation</u>.

#### Summary

- There were 508 rail-related injuries in the Chicago metropolitan area from 2011 to 2020, most of which occurred in Cook County.
- Of those who were injured, 14 percent were children ages 19 and under and 1 in 10 were between the ages of 20 and 24 years old.
- While trespassing and railroad crossing injuries occurred in roughly equal proportions, trespassing injuries were more often fatal.
- More than 9 in 10 injuries involved on-track equipment; of those, half involved freight trains, and 4 in 10 involved passenger trains.
- Trespassing injuries predominated during warmer months (Mar-Nov), while railroad crossing injuries predominated winter months (Dec–Feb).
- Injuries were more frequent from 3:00 PM to 8:59 PM.
- About half of railroad crossing injuries occurred during dark or low-light hours, a quarter of which occurred at railroad crossings that weren't illuminated.
- Most motor vehicle occupants and nearly half of pedestrians struck by on-track equipment at railroad crossings went through or around crossing gates meant to block traffic.
- Of the 7 in 10 trespassers who were struck by on-track equipment, half were on the tracks when they were struck and 1 in 4 were beside the tracks.

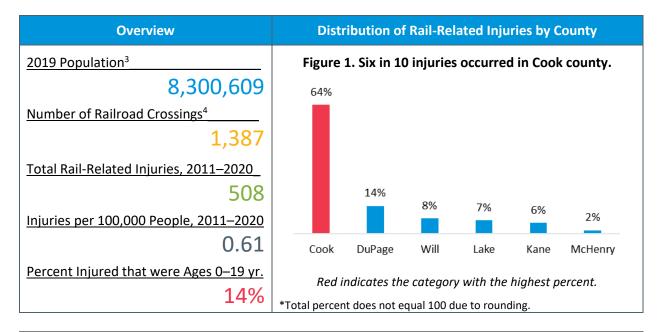




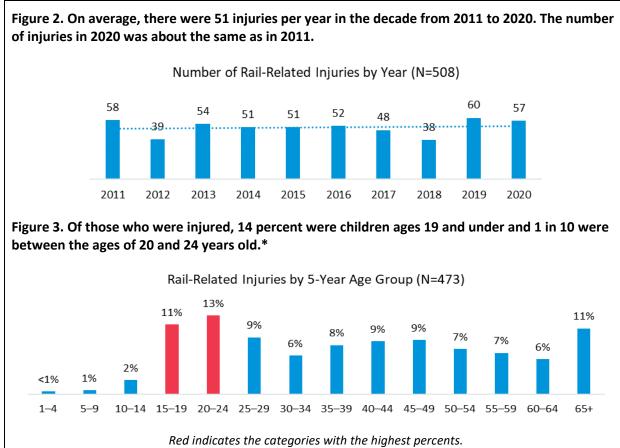








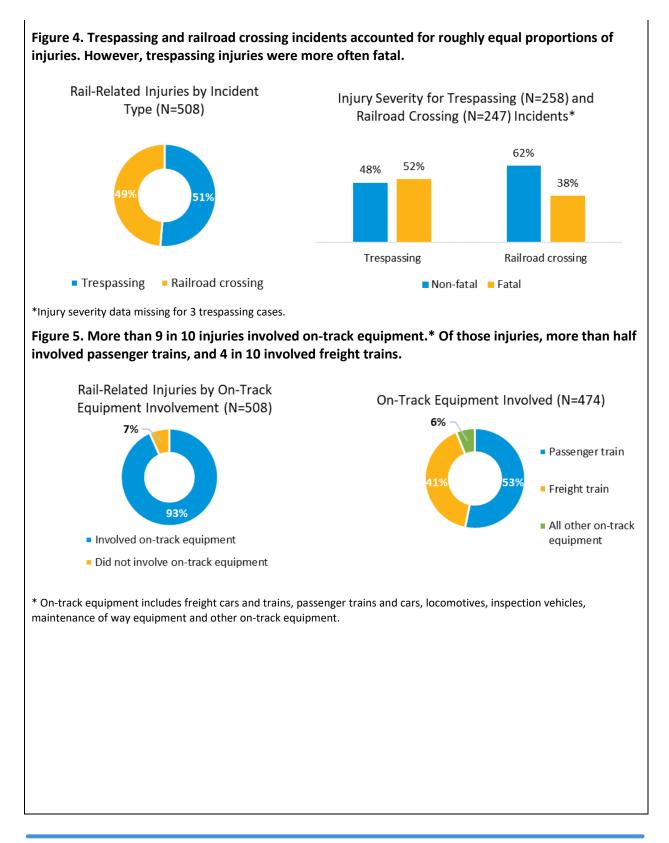
### **Overall Injuries**



\*Age data missing for 35 cases.











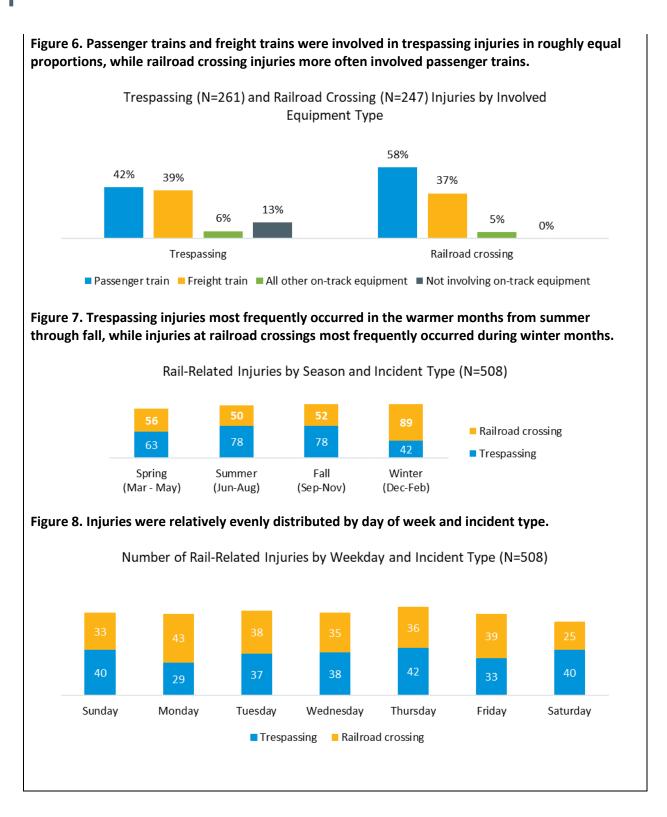
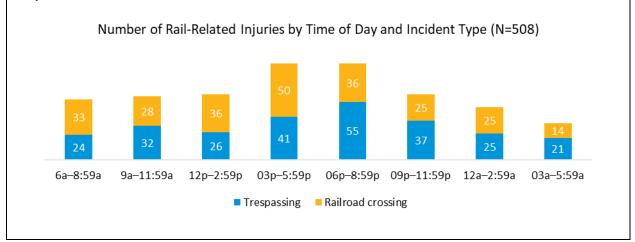


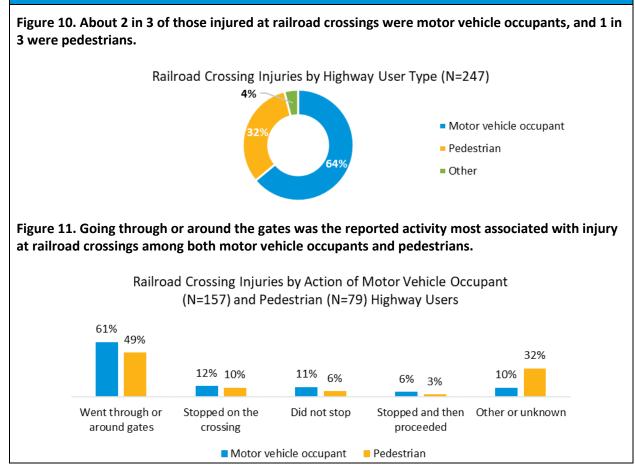




Figure 9. Overall, injuries most often occurred between 3 PM and 8:59 PM. Railroad crossing injuries were most frequent between 3 PM and 5:59 PM, while trespassing injuries were most frequent between 6 PM and 8:59 PM.

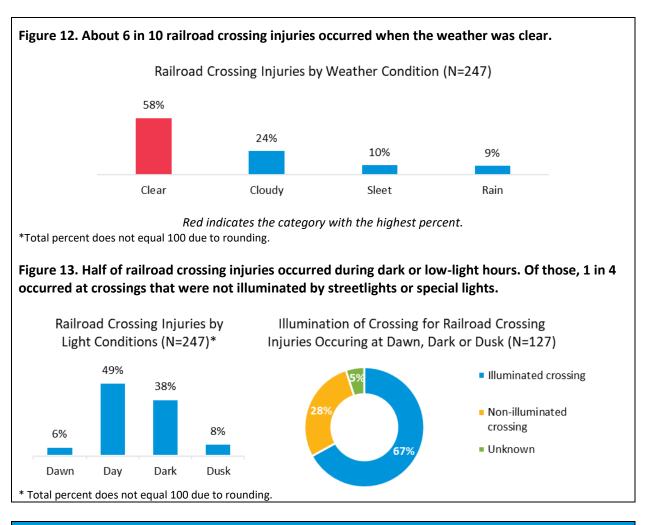


### **Railroad Crossing Circumstances**



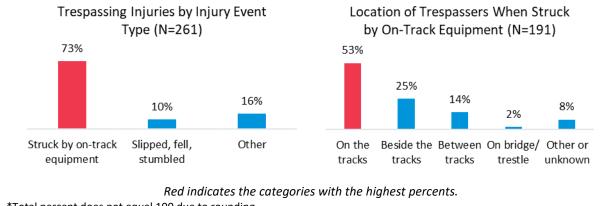






### **Trespassing Circumstances**

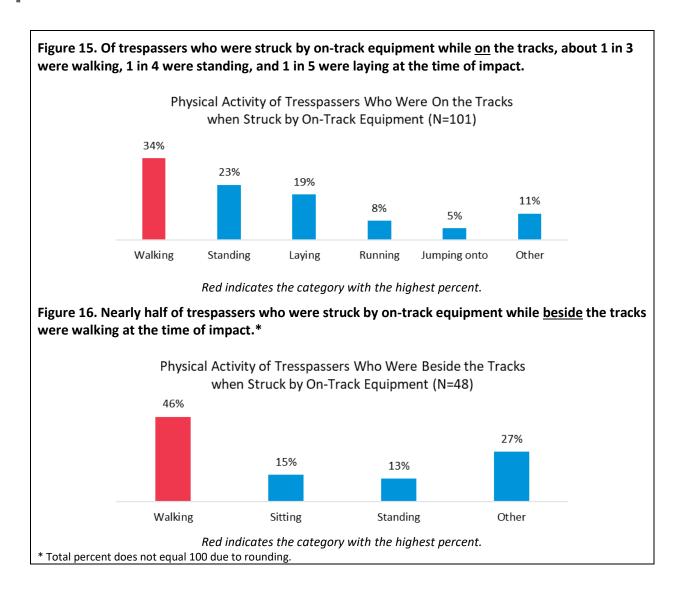
Figure 14. Seven in 10 trespassers who were injured had been struck by on-track equipment. Of those, half were on the tracks at the time of impact.



\*Total percent does not equal 100 due to rounding.

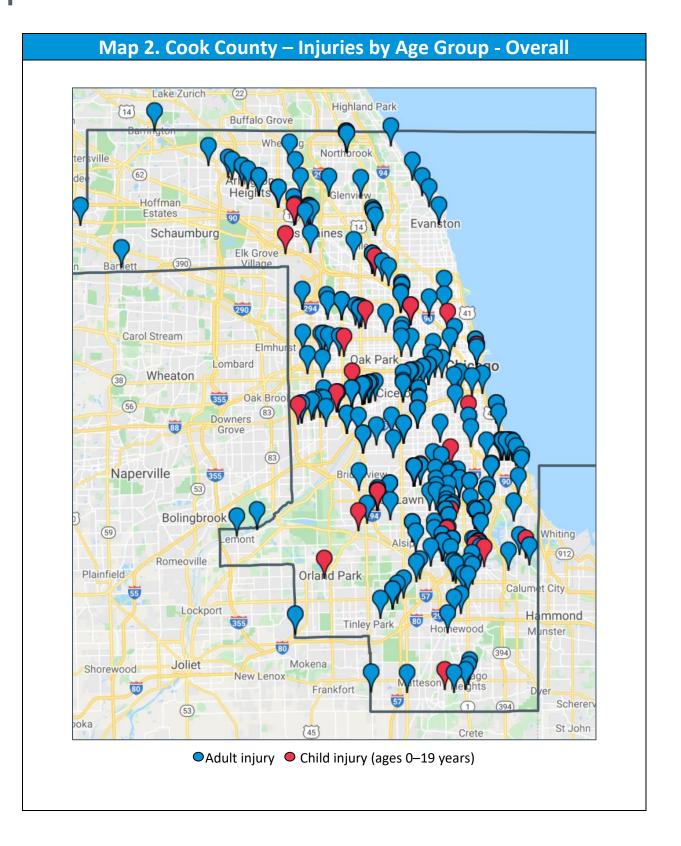






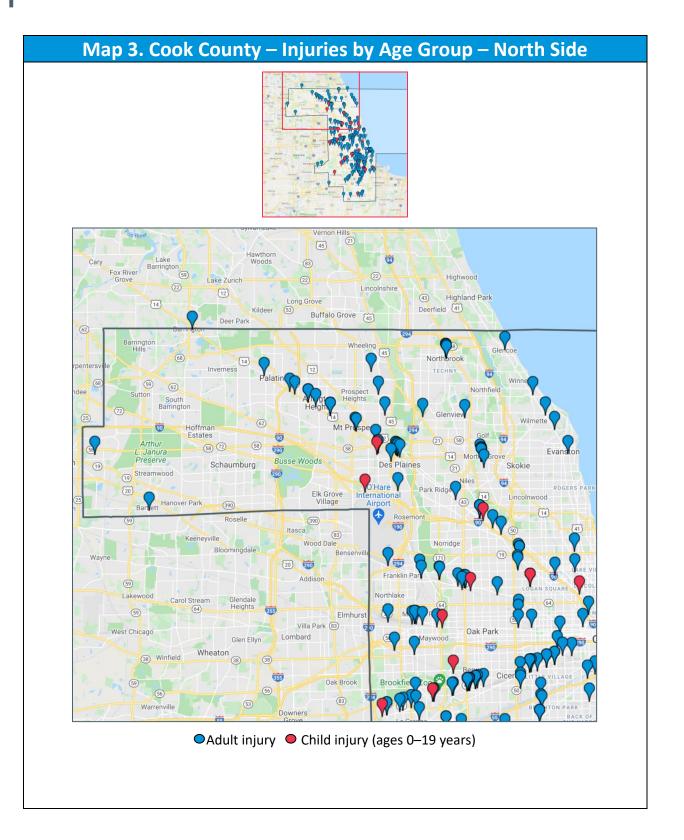






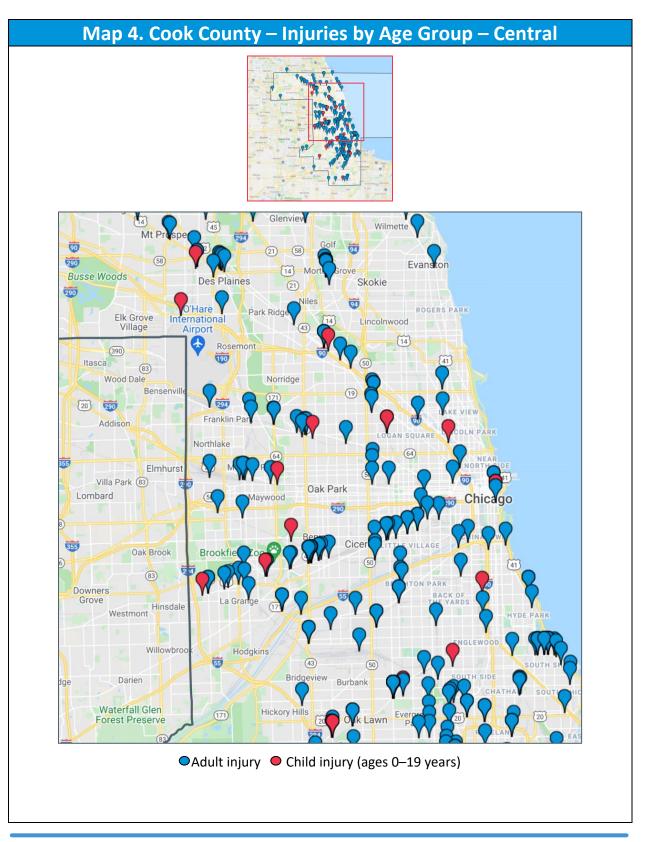
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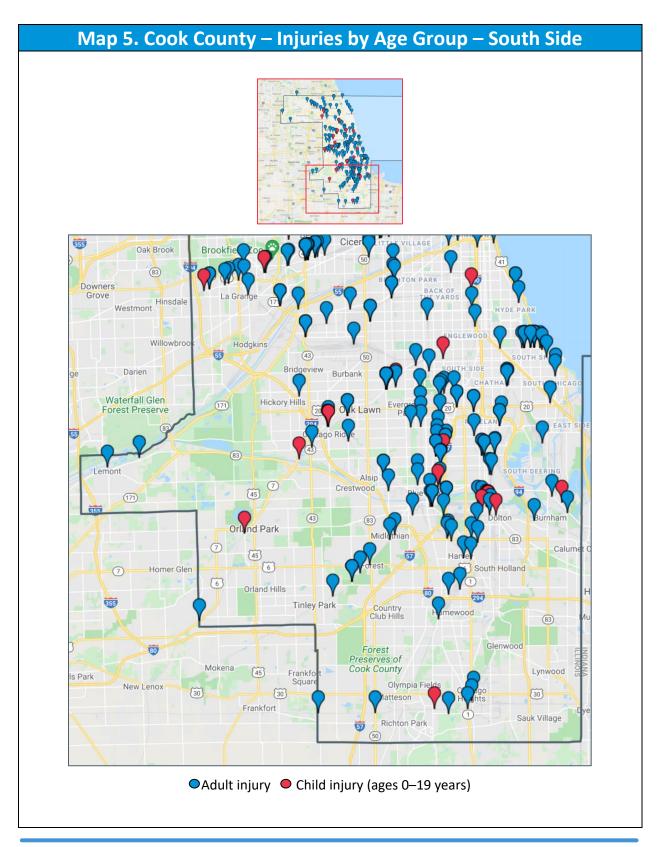






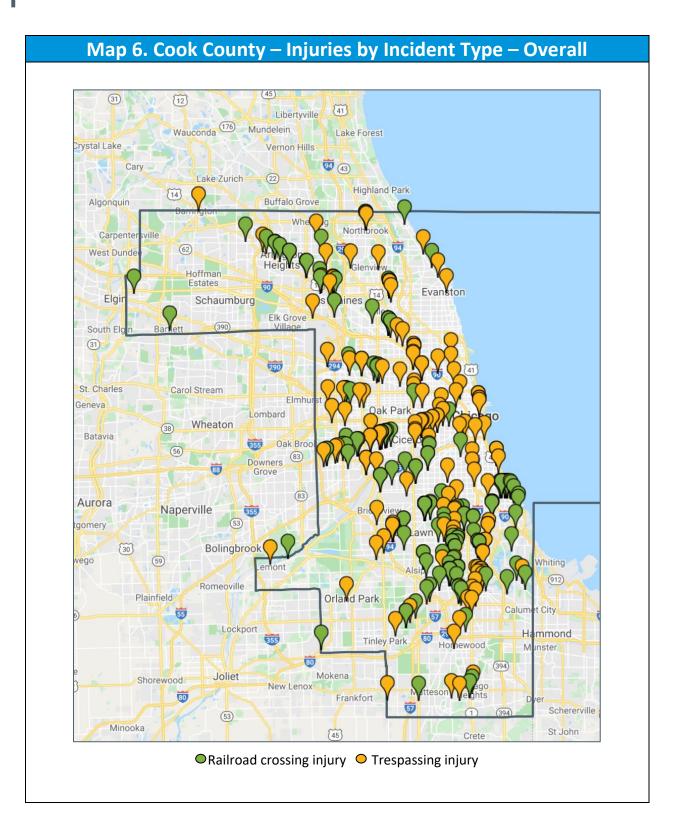








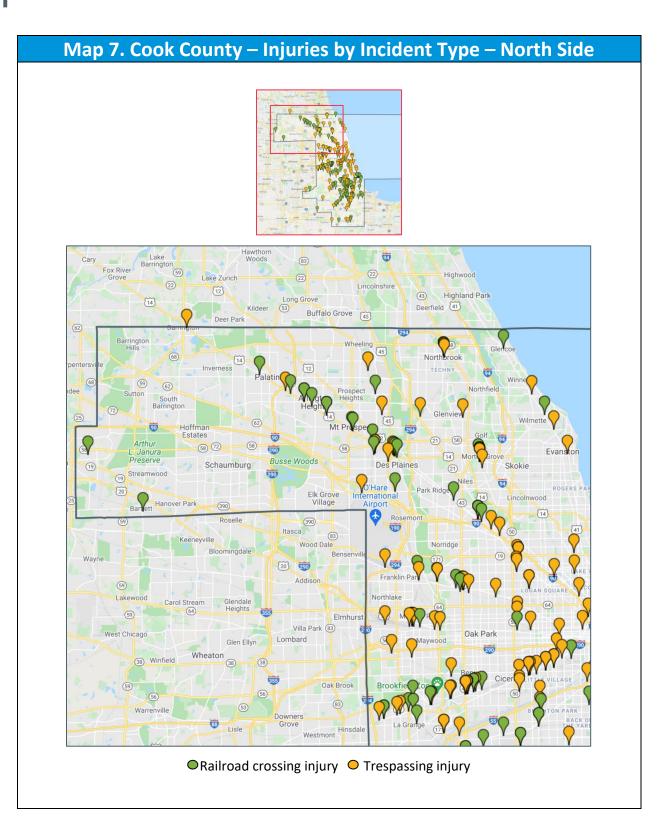






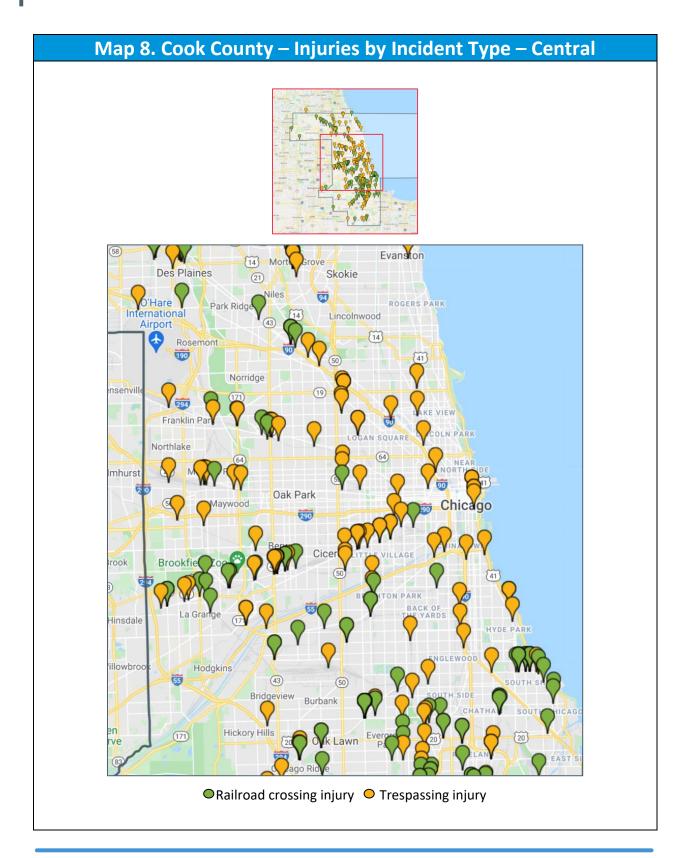








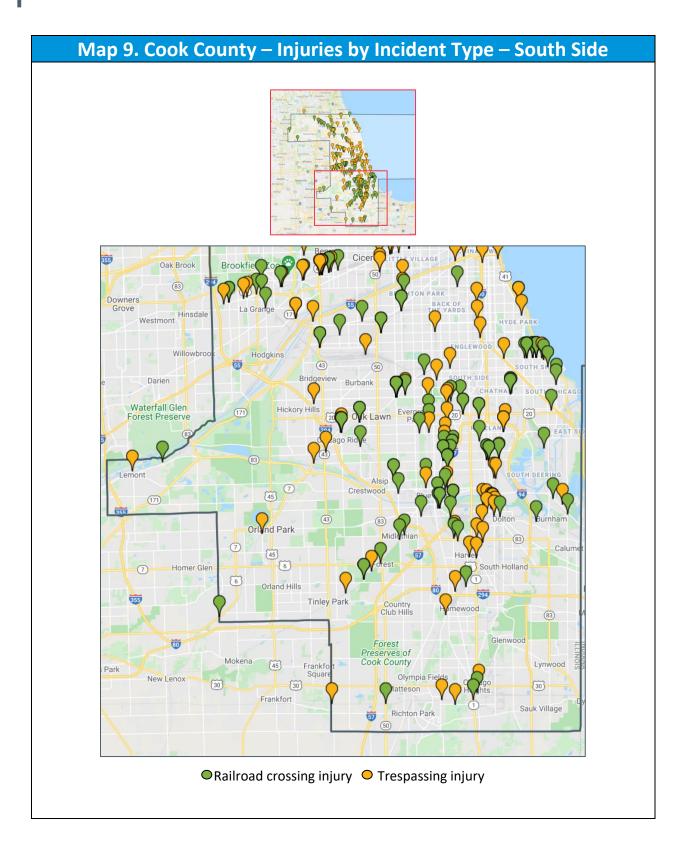






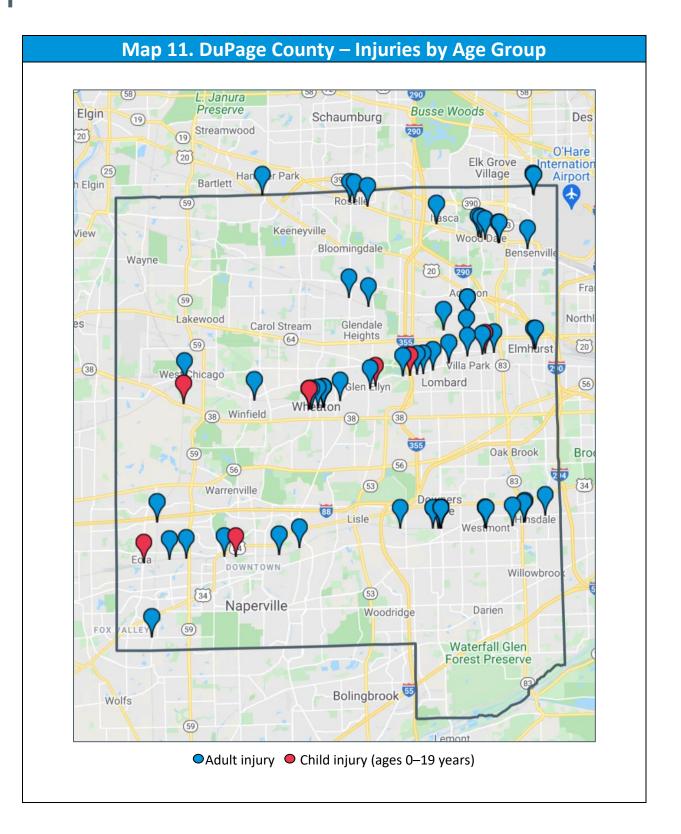






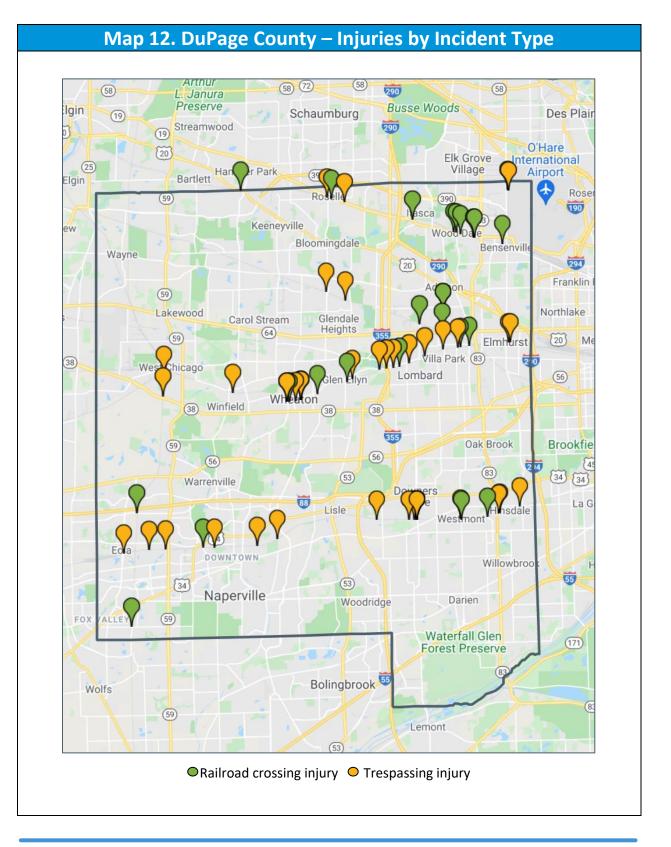






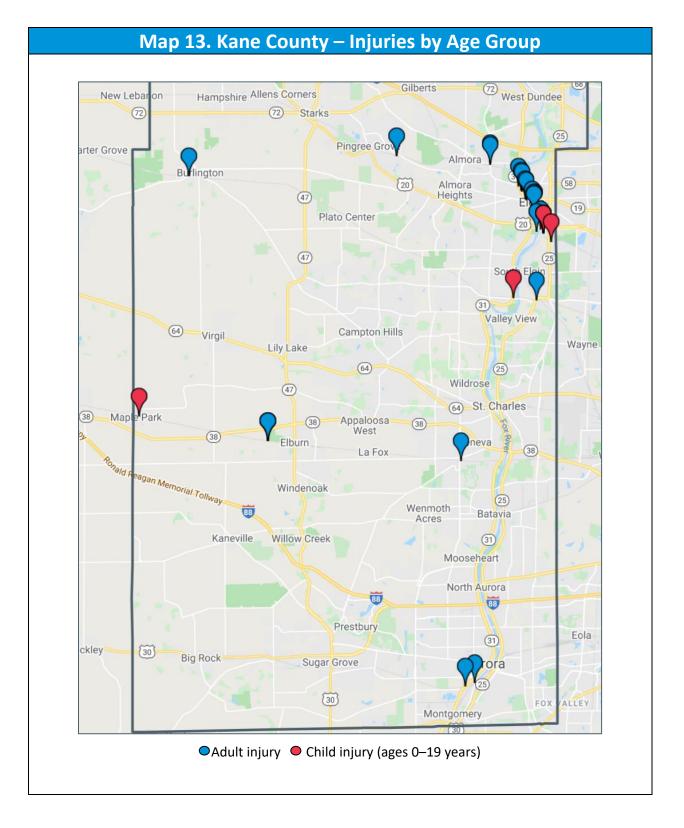






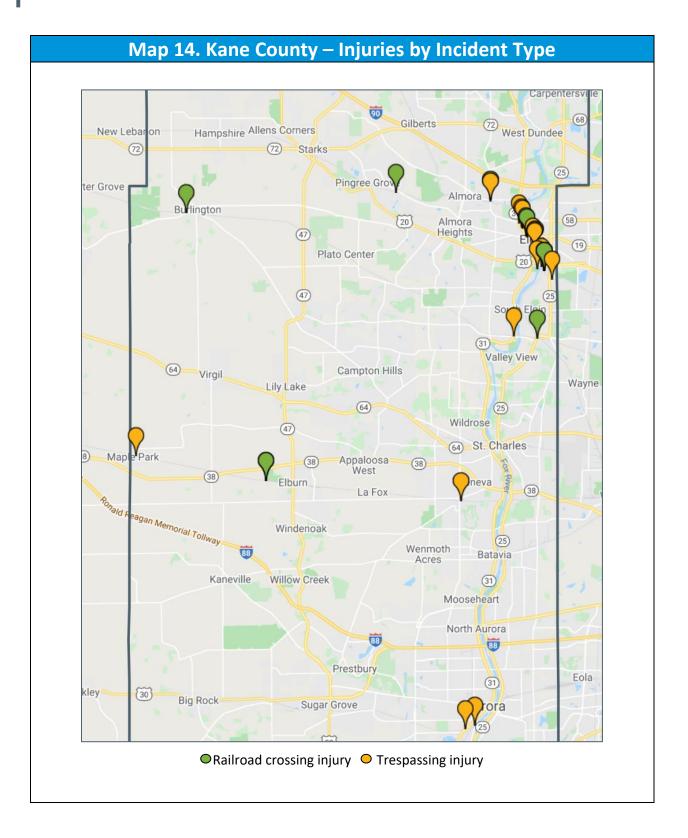






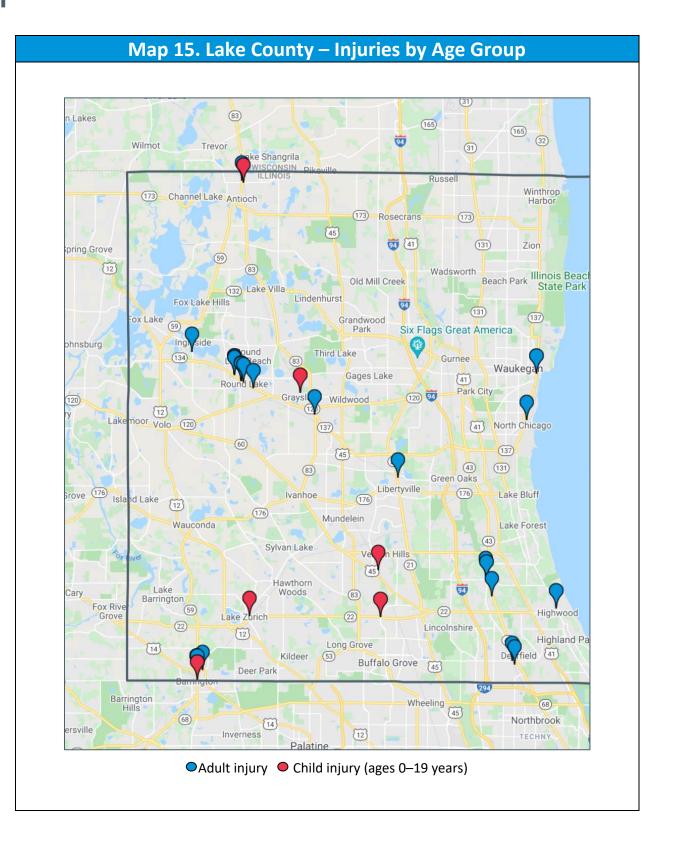






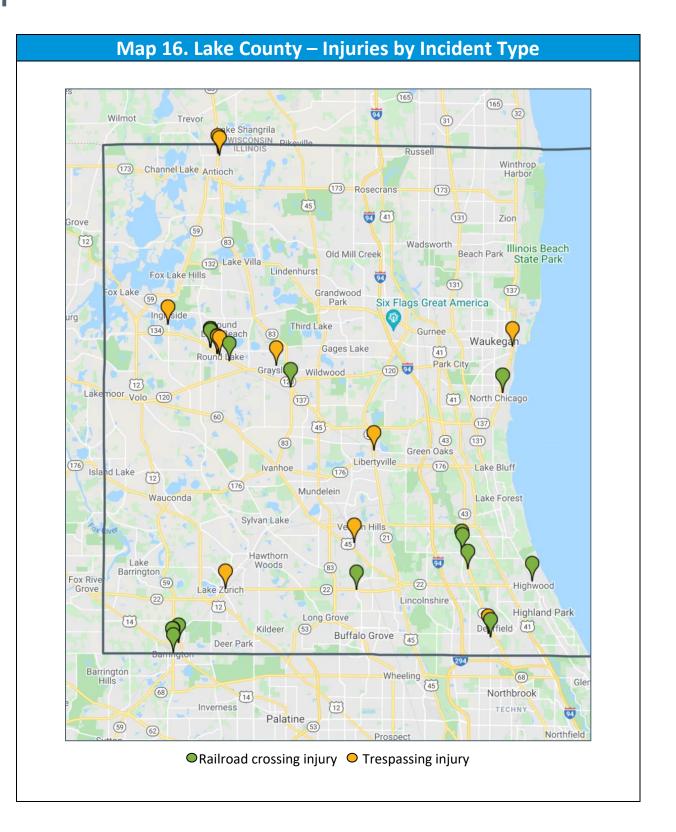






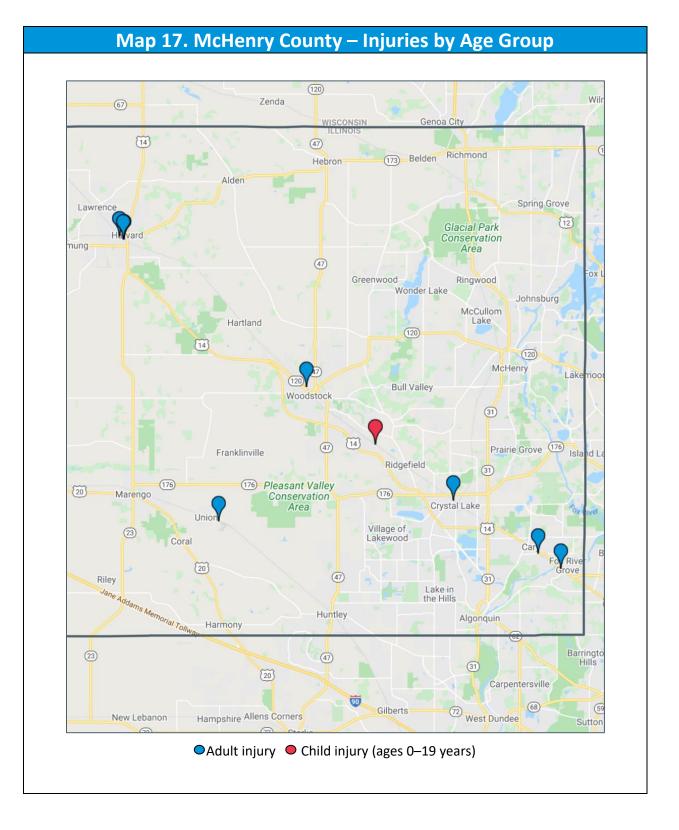






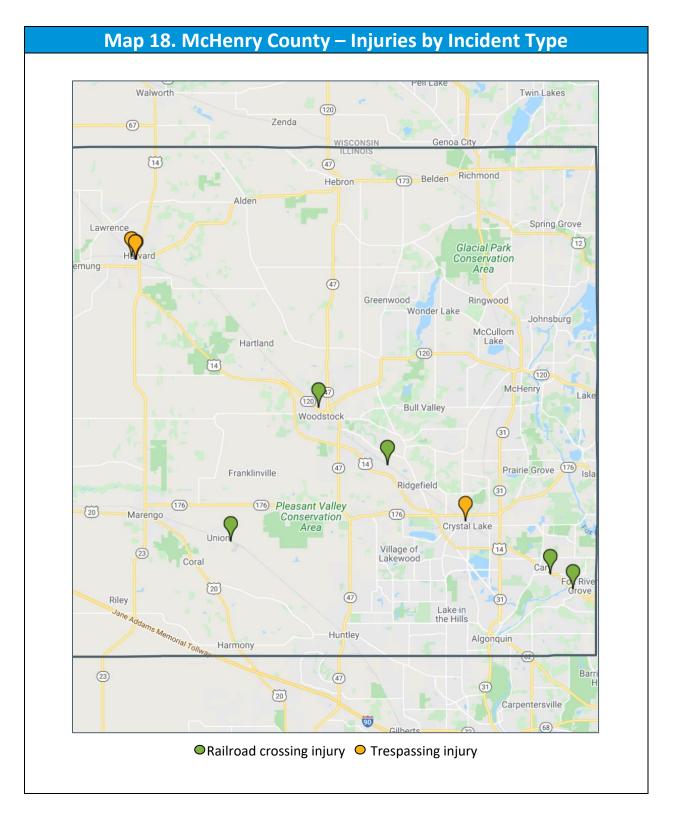






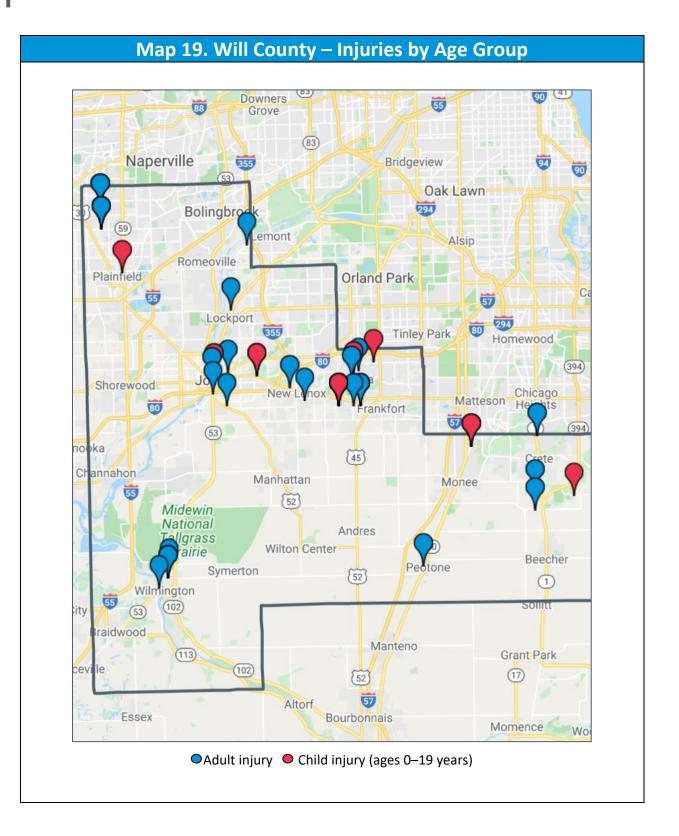
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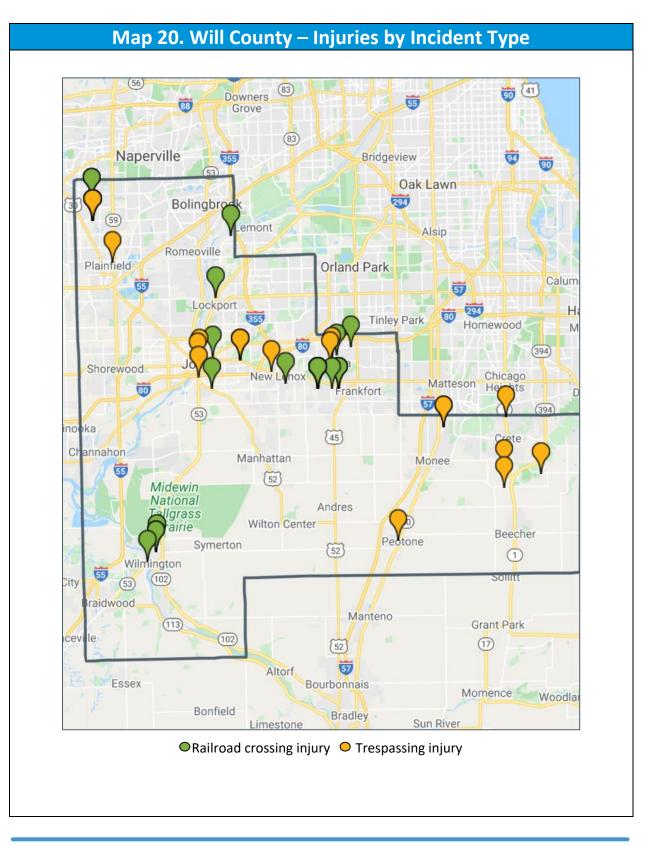
















Notes

### 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 Illinois. 2021. Available from: https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/DownloadCrossingInventoryData.aspx. Accessed August 31, 2021.

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