

IS YOUR CHILD SAFE ON THE ROAD?

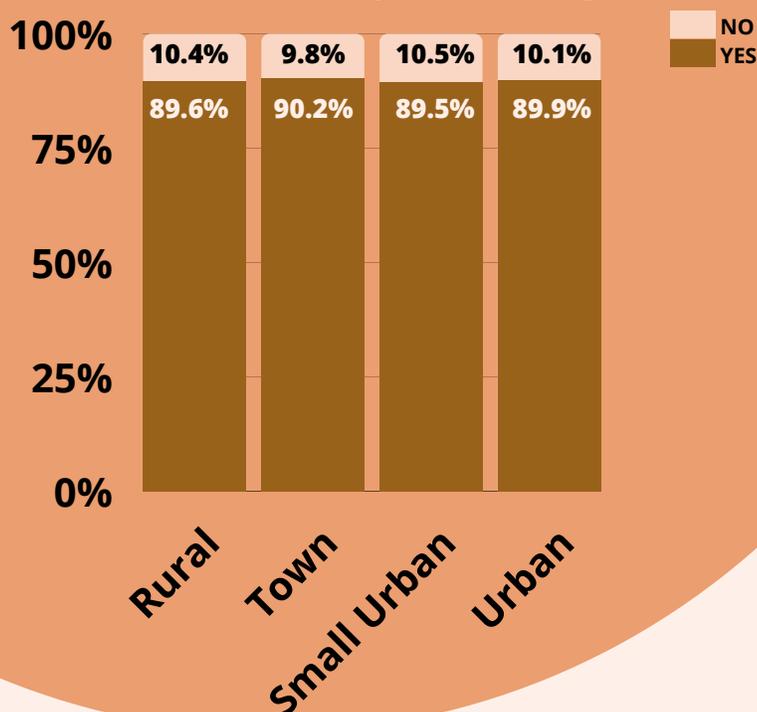
Results from Iowa's 2021 Child Passenger Restraint Survey

- We observed children in 36 communities across the state ranging in size from rural (1,000-2,499) to urban (>50,000).
- 96.5% of child passengers were restrained by any means.
- 89.8% of child passengers were properly restrained in accordance with Iowa law.



This survey was conducted by the University of Iowa Injury Prevention Research Center with funding from the Iowa Governor's Traffic Safety Bureau.

The Percentage of Child Passenger Proper Restraint Use by Community Size



Key Findings & Implications:



- From 2020 to 2021, the child passenger restrained rate in Iowa increased **2.5%** (from **94%** to **96.5%**).
- The child properly restrained rate was slightly lower in rural communities (**89.6%**) than in urban communities (**89.9%**).
- As age increased, children were less likely to be restrained (**100%** of child passengers under age 5 were restrained while **88%** of child passengers ages 14 to 17 were restrained).
- **89.8%** of all child passengers were properly restrained, which was a **3.2%** decrease from **93%** properly restrained in 2020.
- Efforts to improve road safety should target increasing proper restraint use in rural areas and among older children and educating both parents and children on proper restraint use.

A Great Milestone of Improving Child Passenger Safety: 14 Years of Data in Iowa (2005 - 2019)



Child Passengers Across All Age Groups Had Increased Restraint Use

1.6% ↑

Under age 1,
from 2009-2019

17.1% ↑

Aged 1-5,
from 2006-2019

14.9% ↑

Aged 6-11,
from 2006-2019

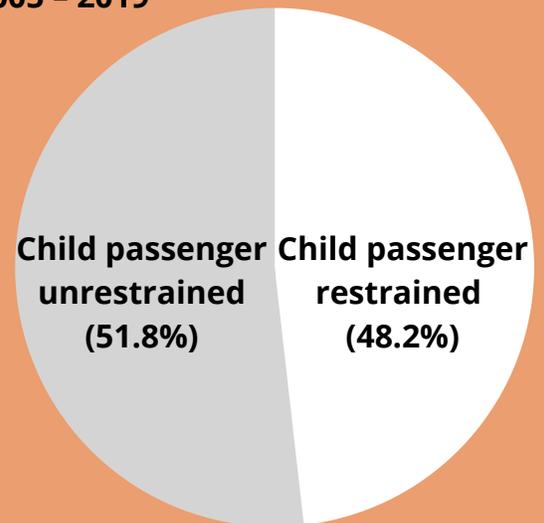
14.4% ↑

Aged 12-17,
from 2010-2019

Trends In Drivers Seatbelt Use & Child Passenger Restraint Use

- A total of **44,996** child passengers from **age 0 to 17** years were observed among **36** sites from **2005-2019**.
- **89.5%** of child passengers were properly restrained in accordance with Iowa law.
- Around **9.1%** of drivers were unbelted, and **8.2%** of children were completely unrestrained.
- Unbelted drivers were **11** times more likely to have an unrestrained child passenger compared with belted drivers.
- Unbelted teenage drivers were **33** times more likely to have an unrestrained child passenger.

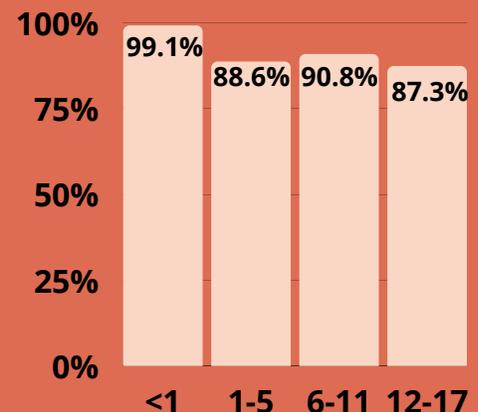
The Percentage of Child Passenger Restraint Use with Unbelted Drivers, 2005 - 2019



Trends In Child Passenger Restraint Use By Rurality & Age

- Child passengers were **18 %** less likely to be unrestrained as age increased.
- Restraint use was **highest** among the **youngest** child passengers.
- Adolescents **12-17** years of age had the **lowest** restraint use (**85.5%**).
- Urban areas had consistently **higher** child restraint use (**90.4%**) compared to rural areas (**85.4%**).

The Percentage of Child Passenger Proper Restraint Use by Different Age Groups



References:

1. Missikpode C, Hamann CJ, Peek-Asa C (In Press @ Journal of Safety Research, expected in Volume 79). Association between driver and child passenger restraint: Analysis of community-based observational survey data from 2005 to 2019. <https://doi.org/10.1016/j.jsr.2021.08.016>
2. Hamann C, Missikpode C, Peek-Asa C (In Press @ Traffic Injury Prevention). Trends in youth passenger restraint use by rurality and age, 2006-2019.