SPEED

What data was collected

Measured speeds for several days, including weekdays and weekend days, for 24 hours per day to understand existing prevailing speeds, and how they vary by day or by hour.

What was learned

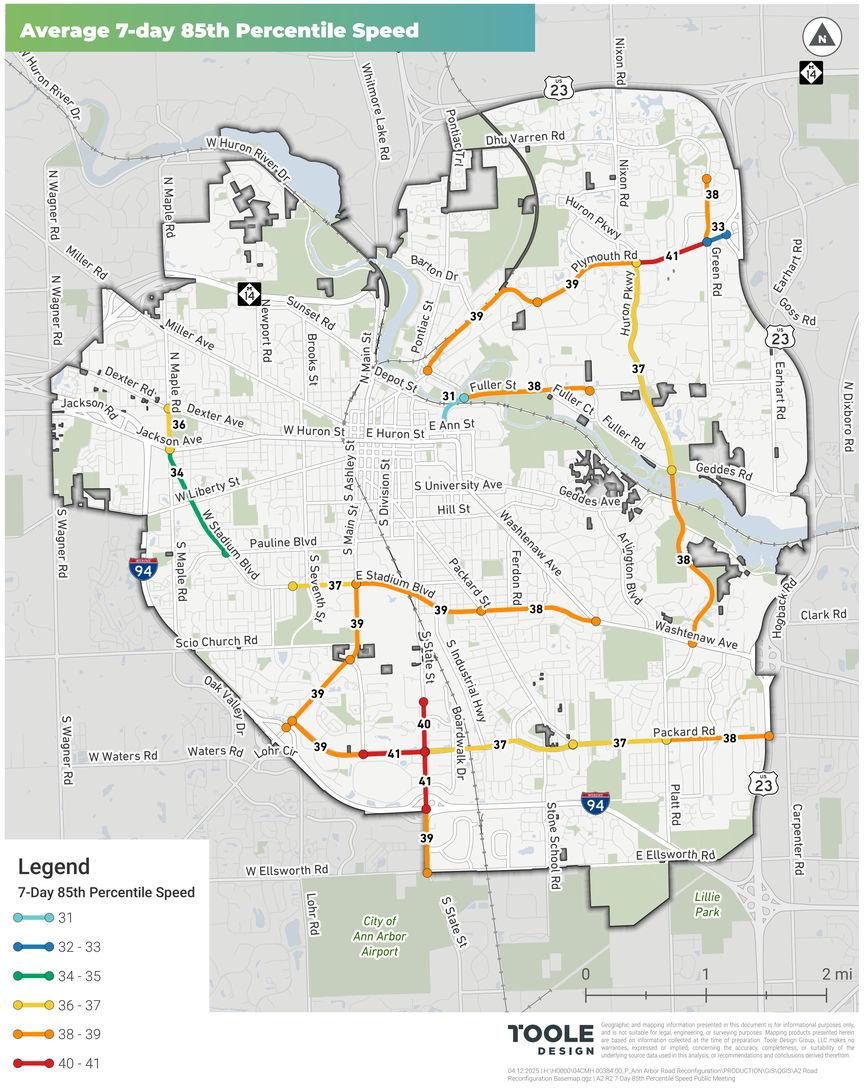
- There is significant variation in the speeds among the 10 project corridors.
- The 85th percentile speeds are well above the speeds that are needed for safe streets that serve multiple ways of travel (walking, bicycling, rolling, scootering and taking the bus)

Why is this important

- A pre-eminent goal is to achieve Vision Zero and address the root causes of crashes on these corridors. Speeds are an underlying factor in most crashes, and reducing speeds will save lives.
- At higher speeds, crash outcomes are much more likely to be deadly; vehicles have longer stopping distances, and drivers are less likely to see people walking or bicycling along the edge of a street at higher speeds.
- It is important to know that high speeds are also LESS efficient at handling high volumes of peak hour traffic, because the space between vehicles, or following distances, naturally gets longer at higher speeds due to driver perceptions and behavior. This can REDUCE how much traffic a street can handle.

Did you know that a small reduction of speed of 1 mph can result in a 5% reduction in crashes?

Average 7-day 85th Percentile Speed



Legend

7-Day 85th Percentile Speed

- 31
- 32 - 33
- 34 - 35
- 36 - 37
- 38 - 39
- 40 - 41

TOOLE DESIGN

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04.12.2025 | H:\H0000\04CMH.00384.00_P_Ann Arbor Road Reconfiguration\PRODUCTION\GIS\QGIS\A2 Road Reconfiguration Basemap.qgz | A2 R2 7-Day 85th Percentile Speed Public Meeting

Small shifts in speed = big safety results

Reducing speeds by even relatively modest amounts can significantly improve safety, especially for people who are more physically vulnerable, such as people walking and bilking, and kids and seniors.

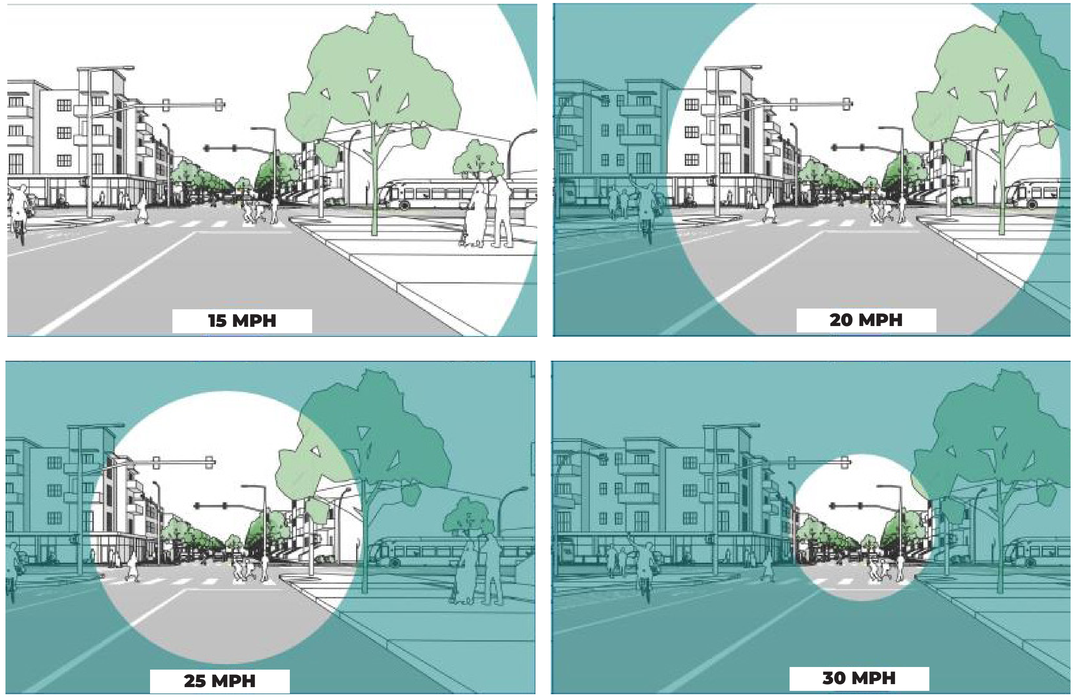
Research shows that a reduction of 1 mph in average speed is associated with a 5% reduction in crashes. The evidence is clear: crash frequency rises with higher average speeds, and the increase becomes more rapid at higher speeds.

Speed 1 mph ↓ Crashes 5%

Even small reductions in speed can improve safety. Reducing the average speed by 1 mph is associated with 5% reduction in crashes.

Source: Transport Research Laboratory

A Driver's Cone Of Vision Narrows As Speeds Increase



Source: Valley Transportation Authority

Higher Travel Speeds Are More Lethal To Pedestrians

