



Performance Measures Report

Mid-America Regional Council
Transportation Department

2021

MARC
MID-AMERICA REGIONAL COUNCIL

PERFORMANCE MEASURES

Performance based planning measures performance, based on goals, and uses the results to inform future planning. The Kansas City region's long-range transportation Plan, Connected KC 2050, defines goals: access to opportunity, public health and safety, healthy environment, transportation choices and economic vitality.

Based on those goals, MARC has identified many performance measures. This report looks at a subset of those measures using updated data to inform planning decisions, especially how to spend federal funding coming to the Kansas City region.

Performance measures at a glance

This chart gives a general indication of the trend of each measure — green means moving in the desired direction, yellow means not getting better or worse and red means heading the opposite direction.

Moving in the desired direction:

- Travel Time Reliability
- Miles of Streets with Protected Bike Facilities

Not getting better or worse:

- Work Trips by Alternative Modes
- Ozone
- Vehicle Miles Traveled per Capita
- Interstate Pavement Condition

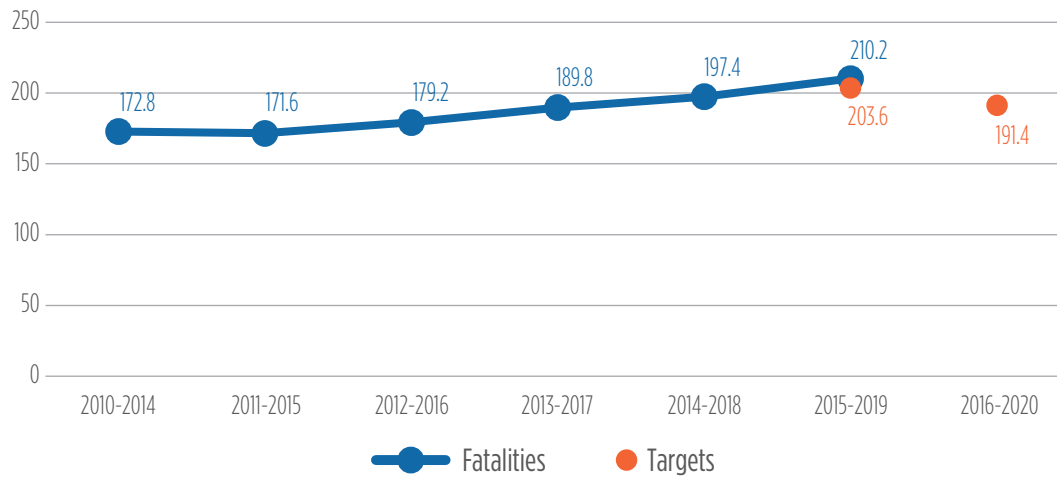
Moving in the opposite direction of targets:

- Safety
- Other Major Roadways Pavement Condition
- Bridge Condition

SAFETY

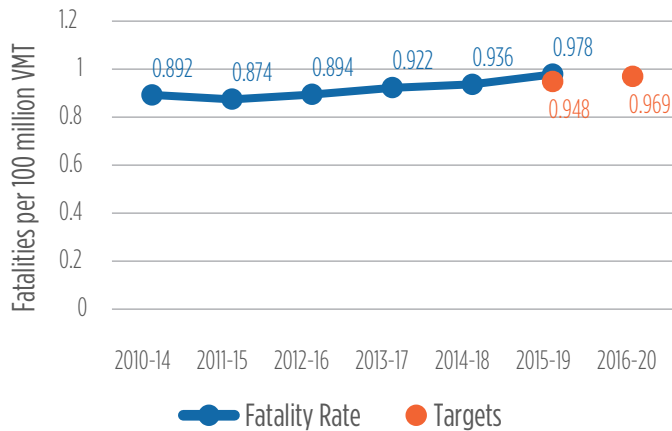
Traffic fatalities in the region have been rising consistently over time.

Fatalities

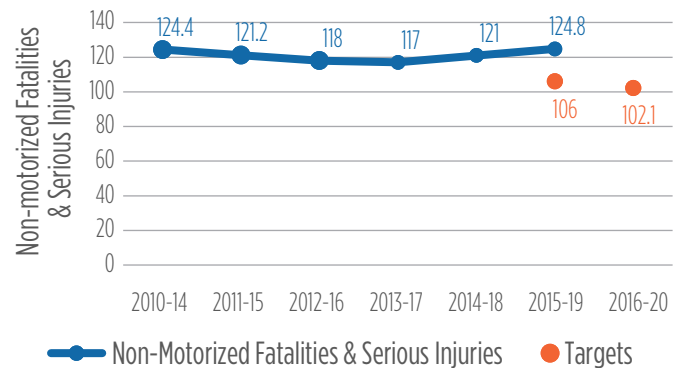


Other safety measures

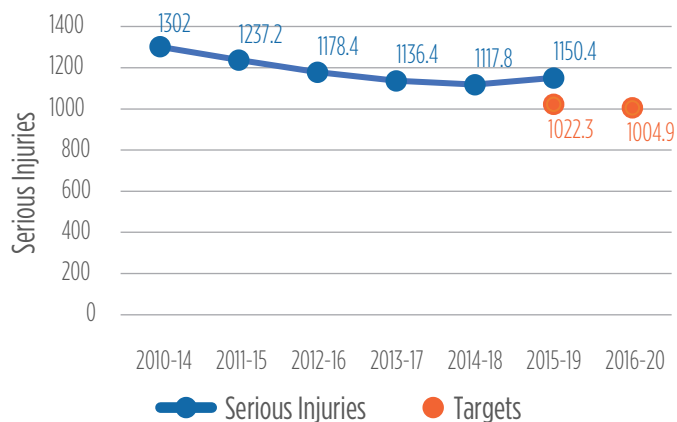
Fatality Rate



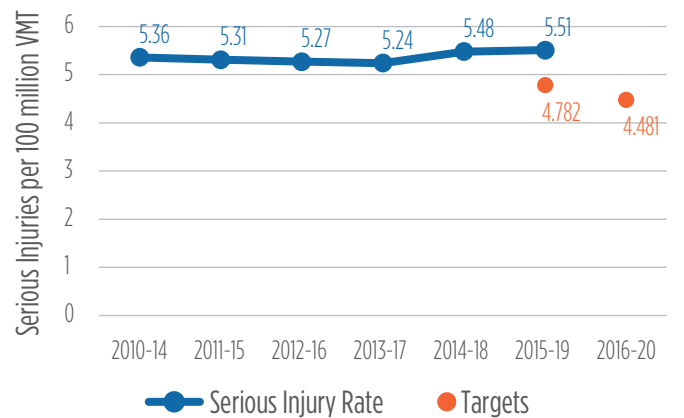
Non-Motorized Fatalities and Serious Injuries



Serious Injuries



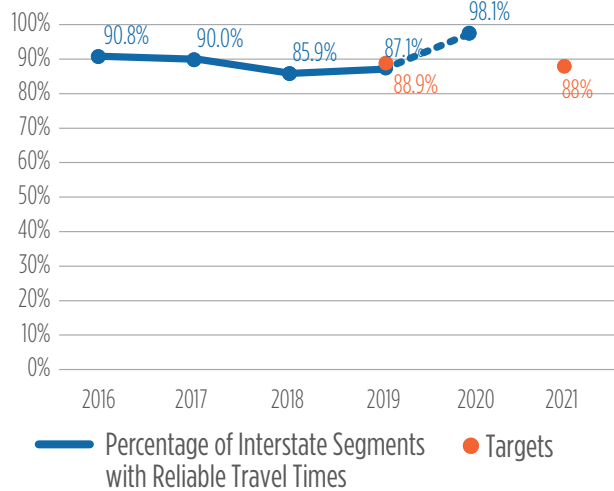
Serious Injury Rate



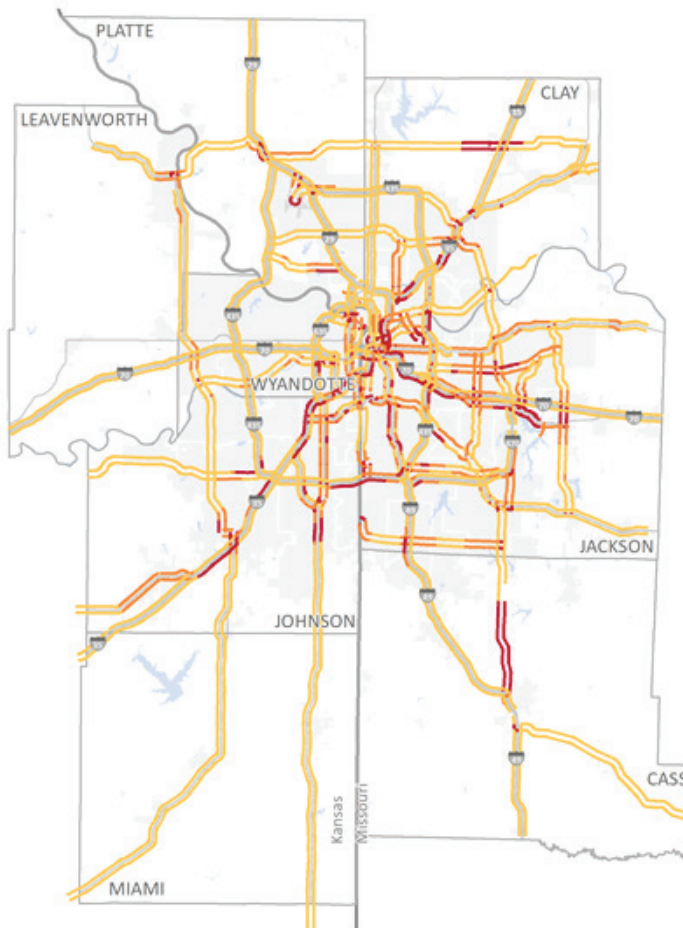
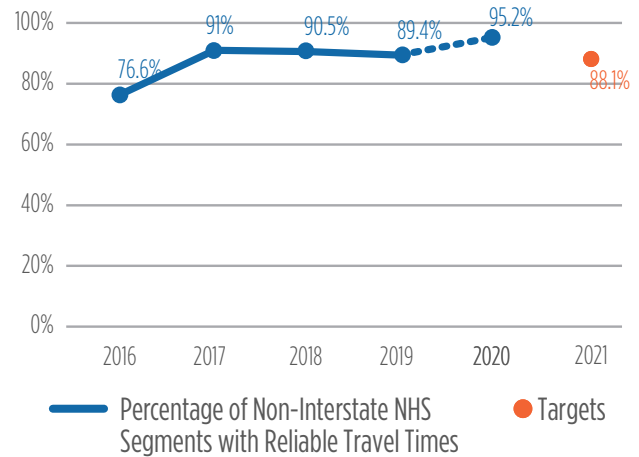
TRAVEL TIME RELIABILITY

Travel times in the region are highly reliable. More than 85% of interstate highway segments and almost 90% of the segments on other major roads provided reliable travel times in 2019.

Interstate Travel Time Reliability



Non-Interstate NHS Travel Time Reliability



Level of Travel Time Reliability (2019)

- Good (<1.25)
- Fair (1.25-1.49)
- Poor (>1.50)

Note that due to the pandemic, traffic volume was down significantly in 2020. This had the side effect of increasing reliability.

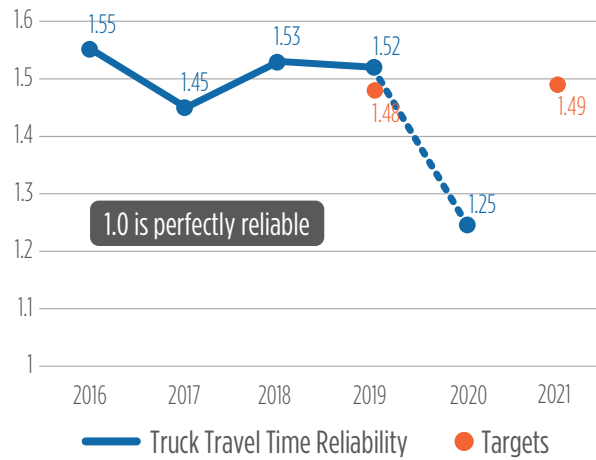
Source(s): INRIX
Date Prepared: 8/27/2021

Truck Travel Time Reliability

Truck travel times on major roads are also highly reliable. In 2019, even during the most congested times, truck travel times were only about 50% longer than average.

Note: Lower values are better. A travel time reliability index of 1.0 would indicate perfectly reliable travel times.

Data from the National Performance Management Research Data Set

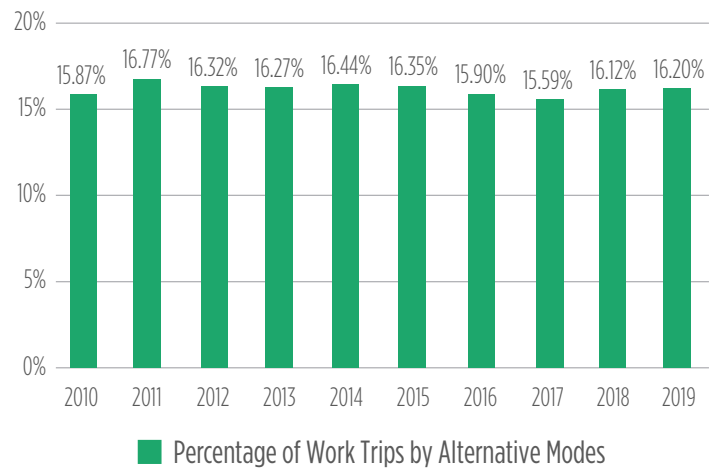


TRANSPORTATION CHOICES

Percentage of work trips by alternative modes

The proportion of trips to work in the region by alternative modes such as transit, carpooling, biking or walking has remained steady at around 16%.

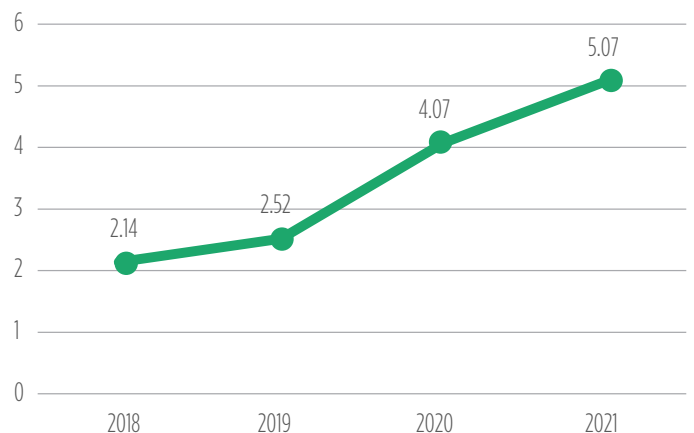
Data from the American Community Survey



Miles of streets with protected bike facilities

The region currently has more than 150 miles of bike lanes. Just over 5 miles of streets have bike facilities separated from traffic with a physical barrier. These protected bike lanes make cycling comfortable for a much wider array of riders.

Data from the Mid-America Regional Council

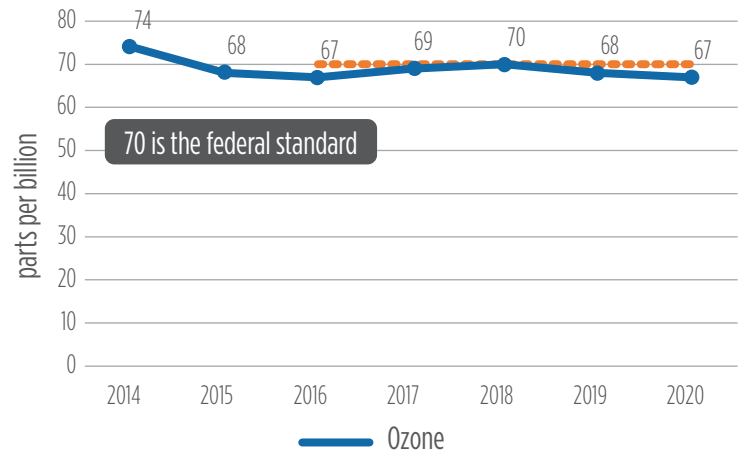


HEALTH & ENVIRONMENT

Ozone

Levels of ozone pollution in the region have been trending downward in recent years. We have been at or below the federal standard of 70 parts per billion since 2015.

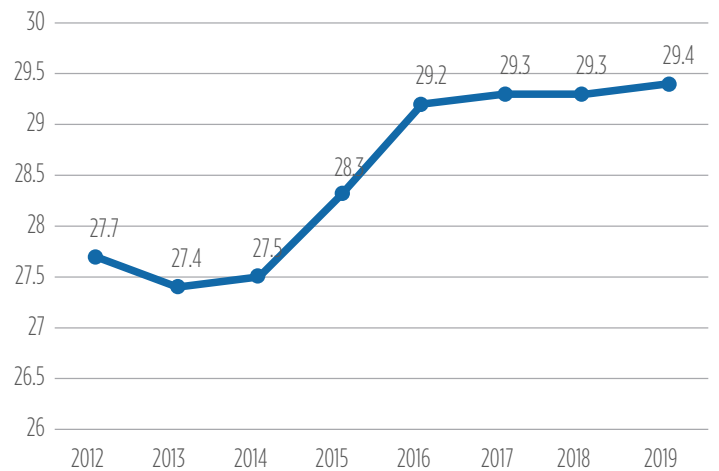
Data from Kansas Department of Health and Environment and Missouri Department of Natural Resources



Daily Vehicle Miles Traveled per Capita

The average number of miles driven climbed between 2014 and 2016, before stabilizing around 29 miles per person per day from 2016 to 2019.

VMT data from the Kansas Department of Transportation and Missouri Department of Transportation, Population data from the American Community Survey

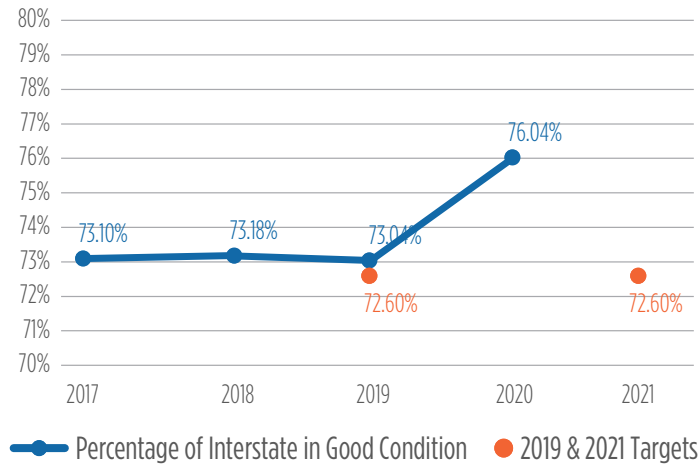


INFRASTRUCTURE CONDITION

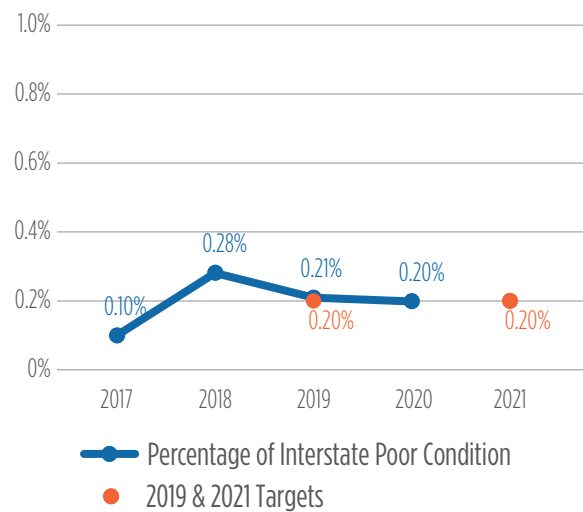
Pavement Condition

The pavement condition of the region's Interstate Highways is quite good, with more than 75% in good condition and just 0.2% in poor condition.

Percentage of Interstate in Good Condition



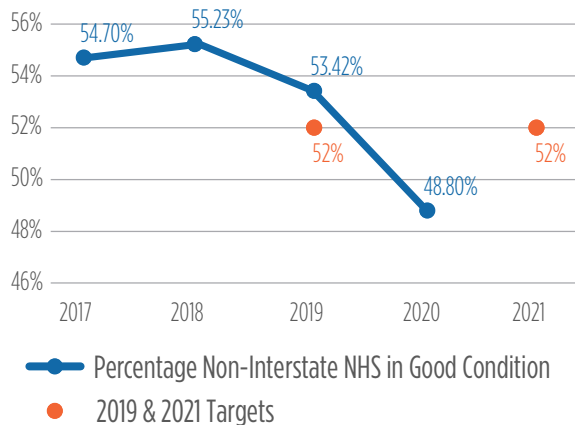
Percentage of Interstate in Poor Condition



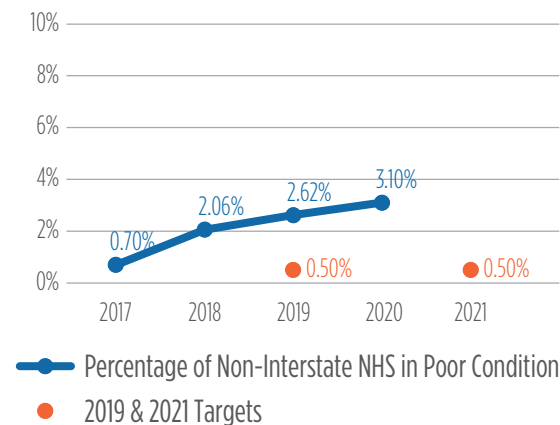
Pavement conditions on other major roadways in the region are not doing as well. Less than half are in good condition and more than 3% are in poor condition.

Data from the Kansas Department of Transportation and Missouri Department of Transportation

Percentage Non-Interstate NHS in Good Condition



Percentage of Non-Interstate NHS in Poor Condition



Bridge Condition

The percentage of the region's bridges in good condition has been steadily declining over time. The condition of bridges on major roads (the National Highway System) has dropped from 50% to less than 40% over the past five years. During that time the percentage of bridges in poor condition has largely held steady.

Data from the National Bridge Inventory

