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Rural Roads Suffer from Funding, Connectivity and Safety Challenges

merica's rural transportation system is in need of repairs and modernization to support economic growth and improve traffic safety outside metro areas, but the United States faces a \$211 billion backlog in funding for needed repairs and improvements to the rural transportation system, according to a new report by TRIP, a national transportation research nonprofit.

The importance of the rural transportation system as the backbone of the nation's supply chain has been heightened during the response to the COVID-19 pandemic. Addressing the nation's rural transportation challenges will require a significant increase in investment, but the tremendous decrease in vehicle travel that has occurred due to the COVID-19 pandemic is estimated to reduce state transportation revenues by at least 30 percent—approximately \$50 billion—over the next 18 months.

POPULATION DECLINE REVERSED

Rural America is the primary source of the energy, food and fiber that drives the U.S. economy. The decline in rural population has been halted largely due to increasing employment and declining poverty.

According to the U.S. Census Bureau definition, 19 percent of the nation's residents live in rural areas—or approximately 60 million people. The nation's rural areas account for 97 percent of America's land area and are home to the vast majority of the nation's 2.2 million farms.

America's rural population, which had declined slightly from 2010 to 2016, added 54,000 people from 2016 to 2018. The modest rebound in rural population is likely a result of increased employment and declining poverty. The rural poverty rate, which is the percentage of people making below the amount of money deemed necessary to have a basic standard of living, decreased from 18.5 percent in 2013 to 16.1 percent in 2018.

The movement of retiring baby boomers to rural America is likely to continue in the future as aging Americans seek out communities that offer affordable housing, small-town quality of life and desirable natural amenities, while often located within a short drive of larger metropolitan areas.

America's rural economy is far more reliant on goods production, which includes farming, ranching, forestry, fishing, mining and energy extraction, and manufacturing, than is the nation's urban economy.

Many of the transportation challenges facing rural America are similar to those in urbanized areas. However, rural residents tend to be more heavily reliant on their limited transportation network—primarily rural roads and highways—than their counterparts in urban areas. Residents of

RANK	STATE	Rural Pavements in Poor Condition	STATE	Rural Bridges Poor/ Structurally Deficient	STATE	Fatality Rate per 100M VMT on Rural Non-Interstate Roads	Fatality Rate per 100M VMT on All Other Roads
1	Rhode Island	41%	Rhode Island	22%	South Carolina	3.44	1.12
2	Oklahoma	36%	West Virginia	21%	Oregon	2.92	0.76
3	Hawaii	32%	lowa	20%	Kentucky	2.55	0.83
4	West Virginia	29%	South Dakota	18%	Tennessee	2.42	0.97
5	New Mexico	28%	Pennsylvania	17%	Arizona	2.36	1.39
6	Arkansas	26%	Louisiana	15%	Rhode Island	2.35	0.61
7	Mississippi	24%	Maine	13%	Kansas	2.31	0.66
8	Connecticut	24%	New York	12%	Oklahoma	2.29	0.95
9	Alaska	23%	Michigan	12%	North Carolina	2.28	0.75
10	Maine	21%	North Dakota	11%	Florida	2.27	1.30
11	California	21%	Oklahoma	11%	Texas	2.26	1.04
12	Washington	21%	North Carolina	11%	New York	2.24	0.49
13	Missouri	21%	Mississippi	9%	California	2.22	0.86
14	New Hampshire	20%	Missouri	9%	South Dakota	2.22	0.52
15	Louisiana	19%	Alaska	9%	Delaware	2.19	0.74
16	Pennsylvania	19%	Nebraska	9%	Alabama	2.16	0.97
17	Vermont	17%	Hawaii	9%	Indiana	2.15	0.65
18	Massachusetts	16%	New Hampshire	9%	West Virginia	2.10	1.15
19	Michigan	16%	South Carolina	9%	Louisiana	2.10	1.33
20	South Carolina	15%	California	9%	Nevada	2.10	1.04

States ranked based on their rate of rural pavements in poor condition, share of rural bridges that are rated poor/structurally deficient, and fatality rates on non-interstate, rural roads



rural areas often must travel longer distances to access education, employment, retail locations, social opportunities and health services.

ROAD, BRIDGE DEFICIENCIES

The report finds that the nation's rural roads and bridges have significant deficiencies. Thirteen percent of U.S. rural roads are rated in poor condition, while 21 percent are in mediocre condition. Sixteen percent of the nation's rural roads are in fair condition and the remaining 50 percent are in good condition.

Eight percent of the nation's rural bridges are rated in poor/structurally deficient condition, meaning there is significant deterioration to the major components of the bridge. Poor/structurally deficient bridges are often posted for lower weight or closed to traffic, restricting or redirecting large vehicles, including agricultural equipment, commercial trucks, school buses and emergency services vehicles. Forty-seven percent of rural bridges are rated fair. A fair rating indicates that a bridge's structural elements are sound but minor deterioration has occurred to the bridge's deck, substructure or superstructure. The remaining 45 percent of rural bridges are rated in good condition.

"This report reinforces what many rural Americans already know-our country's rural infrastructure is crumbling. The competitiveness of our farmers and ranchers relies on an aging network of roads, bridges, waterways and railways that need an immediate infusion of investment dollars," said Todd Van Hoose, president and CEO of the Farm Credit Council. "That's why we have partnered with more than 250 national, state and local organizations through the Rebuild Rural Coalition. Previous funding opportunities have overlooked our rural infrastructure in the past. We must invest in the transportation network that drives the base of our economy. We must invest in all aspects of rural infrastructure. And we must do it before we lose our competitive advantage."

CRASHES INORDINATELY HIGH

The TRIP report finds that traffic crashes and fatalities on rural non-interstate roads are disproportionately high, occurring at a rate more than double that on all other roads.

In 2018, non-interstate rural roads had a traffic fatality rate of two deaths for every 100 million vehicle miles of travel, compared to a fatality rate on all other roads of 0.88 deaths per 100 million vehicle miles of travel. Rural roads are more likely to have narrow lanes, limited shoulders, sharp curves, exposed hazards, pavement drop-offs, steep slopes and limited clear zones along roadsides.

"TRIP's report provides further evidence all Americans need safe and efficient transportation infrastructure facilities and also reveals we are falling further behind in addressing conditions on our rural roads," said American Road & Transportation Builders Association president Dave Bauer. "It's time to stop talking and start delivering the long-term increase in federal highway and bridge investment necessary to jump-start the economy post-coronavirus."

FEDS: INCREASE INVESTMENT

An analysis of the *Status of the Nation's Highways, Bridges and Transit,* 23rd Edition, submitted by the United States Department of Transportation (U.S. DOT) to Congress in 2019, indicates that the nation's annual \$28 billion investment by all levels of government in rural road, highway and bridge rehabilitation and enhancements should be increased by 28 percent, to approximately \$36 billion annually, to improve their condition, reliability and safety.

America's rural transportation system provides the first and last link in the supply chain from farm to market, connects manufacturers to their customers, supports the tourism industry, and enables the production of energy, food and fiber. Rural Americans are more reliant on the quality of their transportation system than their urban counterparts.

"This report shows infrastructure investment must go beyond our nation's major cities, and be made in America's rural communities where our food, fiber, and fuel is produced and much of our equipment is manufactured," said Dennis Slater, president of the Association of Equipment Manufacturers. "Manufacturers depend on the roads, bridges and highways in rural America to supply the equipment our economy relies on and that infrastructure is in desperate need of repair and modernization. This is especially true today as our nation fights the COVID-19 pandemic and hopefully looks to rebuild the economy in the weeks ahead. That's why we need our lawmakers to prioritize policies that support the movement of essential people and goods now more than ever."

COVID-19 ENDANGERS FUNDS

Improving and modernizing the nation's rural transportation system will require addressing the significant reduction in state transportation revenues, including motor fuel taxes and tolls, as a result of a significant reduction in travel caused by the COVID-19 pandemic; and ensuring that the current federal surface transportation program, which expires Sept. 30, be reauthorized at funding levels that are adequate and reliable.

"The health of the nation's economy and the safety and quality of life in America's small communities and rural areas ride on our rural transportation system," said Dave Kearby, executive director of TRIP. "The nation's rural roads and bridges already faced a significant funding shortfall, and that will only be exacerbated by the looming reduction in state transportation revenues as a result of decreased vehicle travel due to the COVID-19 pandemic. The economic recovery from the pandemic could be hastened by significant investments in our nation's transportation system to support job creation, while making needed improvements to our roads and bridges that will serve our economy and enhance quality of life for all Americans for decades to come."

Adapted from the May 2020 report, Rural Connections: Challenges and Opportunities in America's Heartland, from TRIP, a National Transportation Research Nonprofit. TRIP is supported in part by funding from FP². To download the complete report, visit https://tripnet.org/reports/ rural-connections-challenges-and-opportunities-in-americas-heartland-may-2020/