



2025 PAVEMENT CONDITION ANNUAL REPORT



March 2026



Pavement
Management Unit
Office of Materials
and Road Research

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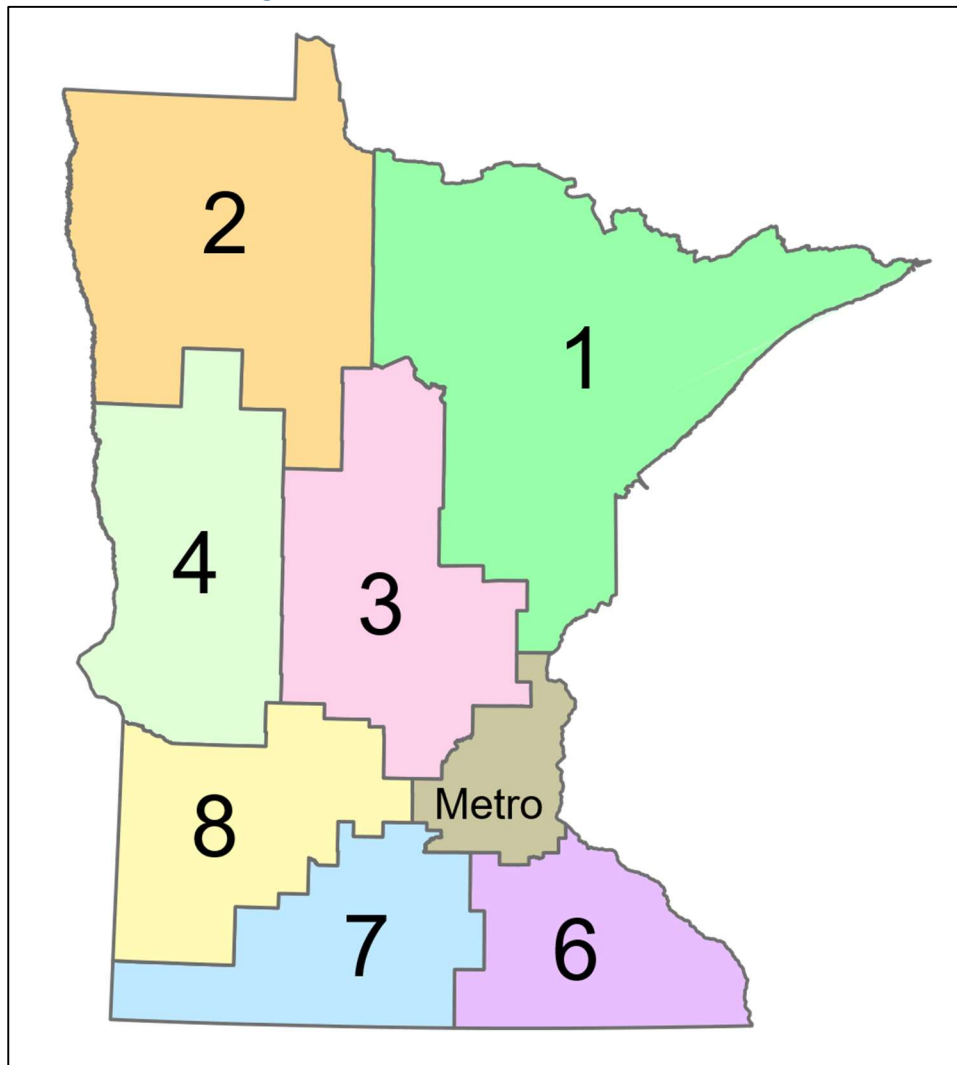
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INTRODUCTION

This report is prepared annually by the Minnesota Department of Transportation (MnDOT) Pavement Management Unit to provide information concerning trunk highway pavement performance. It compares statewide and Area Transportation Partnerships (ATP) performance trends against established targets. Figure 1 displays MnDOT's eight ATPs.

Figure 1. MnDOT's ATP Boundaries



BACKGROUND

MnDOT's trunk highway system consists of approximately 12,000 centerline miles (14,277 rated roadway miles) of pavement. This system consists of bituminous, concrete, and composite pavement with a wide range of conditions, ages, and performance. Each year, the Pavement Management Unit collects pavement roughness and digital image data on the entire trunk highway system, in both directions, and calculates several different metrics related to pavement performance. Condition data has been collected on the trunk highway network since the late 1960s.

DATA COLLECTION

Pavement roughness and surface distress data is collected using a sophisticated digital inspection vehicle (shown in Figure 2). The vehicle is driven in the outer lane of all trunk highways annually, in both directions. It is equipped with two digital cameras: one facing straight ahead and one angling toward the right to collect right-of-way images. For pavement distress and rutting measurements, a 3D laser/camera system is used to produce images of the pavement surface, from which the type, severity, and amount of cracking can be determined. The vehicle also is equipped with laser height sensors that measure the longitudinal pavement profile, from which pavement roughness is calculated.

Figure 2. Network-Level Pavement Surface Data Collection Vehicle



Pavement condition data is used to monitor the performance of the system, to aid in project selection, and to identify future pavement maintenance or rehabilitation needs.

INDICES AND MEASURES

MnDOT's pavement condition data is reduced to several indices for reporting the statewide pavement performance measures in MnDOT's 20-year Transportation Plan: Ride Quality Index (RQI), Surface Rating (SR), Pavement Quality Index (PQI), and Remaining Service Life (RSL). Each index captures a different aspect of a pavement's health. Collectively, the four indices are used to rank pavement sections and predict the need for future maintenance and rehabilitation. Each is briefly described below.

Ride Quality Index (RQI)

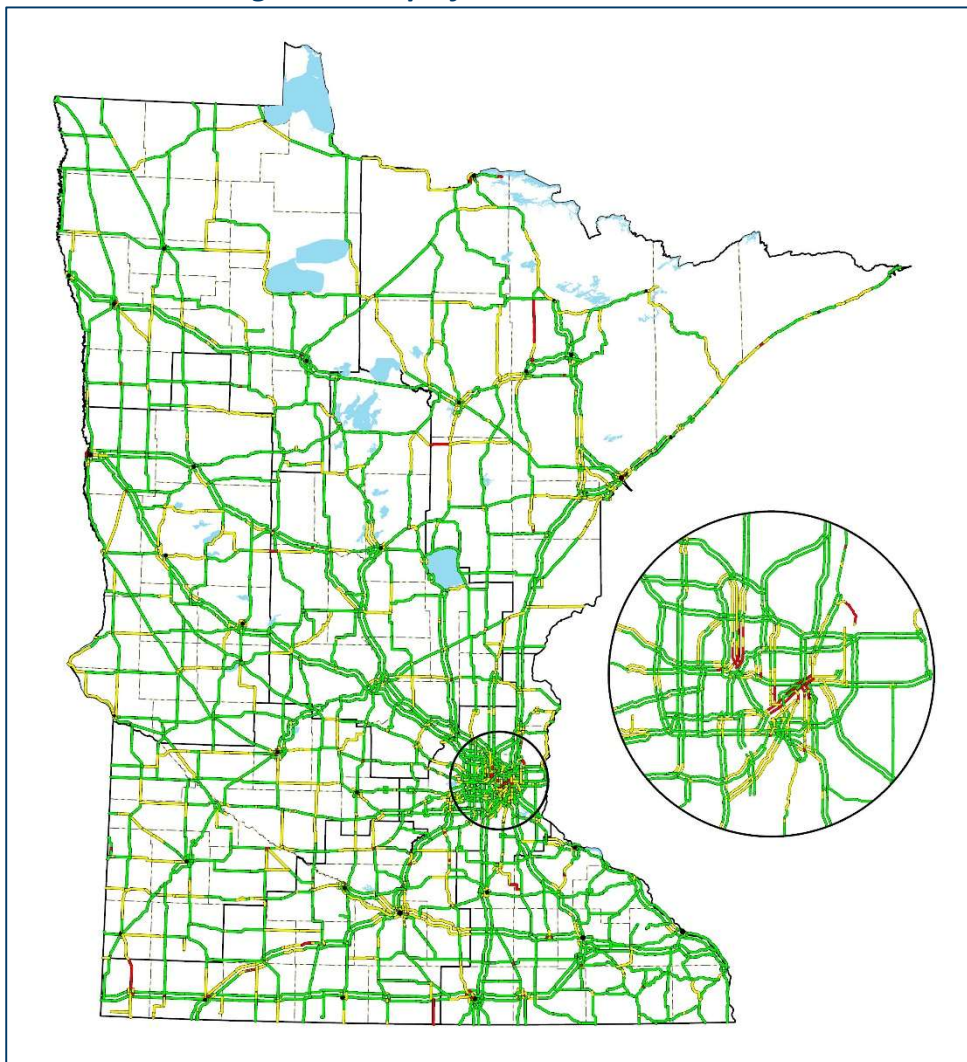
RQI is MnDOT's ride, or smoothness, index. It uses a 0.1 to 5.0 rating scale, rounded to the nearest tenth. A higher RQI represents a smoother road, while a lower RQI indicates a rougher ride. RQI attempts to quantify the range of smoothness ratings that typical drivers would use to evaluate ride. Most new construction projects have an initial RQI above 4.0. Pavements are normally designed for a terminal RQI value of 2.5. Roads that have

reached a terminal RQI value can still be driven on but have deteriorated to a point where vehicle discomfort is felt by drivers and major rehabilitation or reconstruction is likely needed.

RQI is calculated from a pavement's longitudinal profile, measured by height sensors that are situated a few inches above the ground behind the digital inspection vehicle's rear tires. These height sensors consist of a multitude of adjoining laser points that combine to form a four-inch, transverse line that extends down to the pavement surface. The line lasers, along with corresponding accelerometers, measure the distance between a floating reference height and the surface of the longitudinal profile being measured. From this data, a longitudinal elevation can be recorded as the vehicle travels down a road. Once collected, the data is run through a mathematical simulation to generate the International Roughness Index (IRI)—the amount of vertical movement a standard vehicle would experience on a particular pavement. IRI is the roughness index used by most countries and every state DOT in the U.S. While many states use IRI as their sole measure of roughness, MnDOT converts IRI to RQI to incorporate Minnesota drivers' attitudes toward pavement smoothness. The two indices are highly correlated.

Figure 3 is a statewide map showing the most recent RQI. The red, yellow, and green lines represent roadways that have an RQI of 0.1-2.0, 2.1-3.0, and 3.1-5.0, respectively.

Figure 3. Map of 2025 Statewide RQI



Surface Rating (SR)

Pavement distresses are defects that are visible on the surface of a pavement. They are indicative of pavement deterioration such as cracks, patches, or ruts. The type and severity of a pavement distress can provide insight into future maintenance and/or rehabilitation needs.

MnDOT uses SR to quantify pavement distress. The distress identification procedure used to determine SR is performed using computer workstations in the Pavement Management Unit of the Office of Materials and Road Research, located in Maplewood, MN. Specialized software is utilized to examine and analyze digital images of the pavement captured by the vehicle's high-resolution cameras. The vehicle captures several images simultaneously: the pavement in front of the vehicle, to the right of the vehicle (the shoulder), and below the vehicle (downward-pointing images).

Since 2017, condition surveys have been performed using an "AutoCrack" system. AutoCrack software examines 3D images of the pavement surface to determine whether any cracks or other distresses exist. If so, the software determines the location within the lane and classifies the distresses by type and severity, calculating length and/or width. Next, a second system, called "AutoClass," is used to convert the AutoCrack distress types and severities into MnDOT distress types and severities. Because the system is automated, continuous distress surveys covering 100% of the length of each section are executed. On undivided roadways, only the outside lane in the increasing direction (north or east) is rated for SR. On divided routes, the outside lane in both directions is rated.

The percentage of each distress in a section is determined and multiplied by a weighting factor to compute a weighted distress value. The weighting factor for a particular distress type increases as its severity level rises. In addition, weighting factors are larger for distress types that indicate more serious roadway problems (such as alligator cracking or broken panels). Once a pavement section's individual weighted distress values are computed, they are combined to determine a corresponding SR. SR ranges from 0.1 to 4.0 and is rounded to the nearest tenth. A higher SR indicates a better condition. A road with no defects is rated at 4.0. A road in need of major rehabilitation or reconstruction will generally have an SR near or below 2.5.

Pavement Quality Index (PQI)

PQI is a composite index, equal to the square root of the product of RQI and SR. Because PQI is an amalgam of an index that measures pavement smoothness and another that quantifies pavement distress, it is a good indication of the overall condition of a pavement. Therefore, PQI is the index used to determine if Minnesota's state highway system is meeting performance thresholds established for the Government Accounting Standards Board, Standard 34 (GASB 34).

Remaining Service Life (RSL)

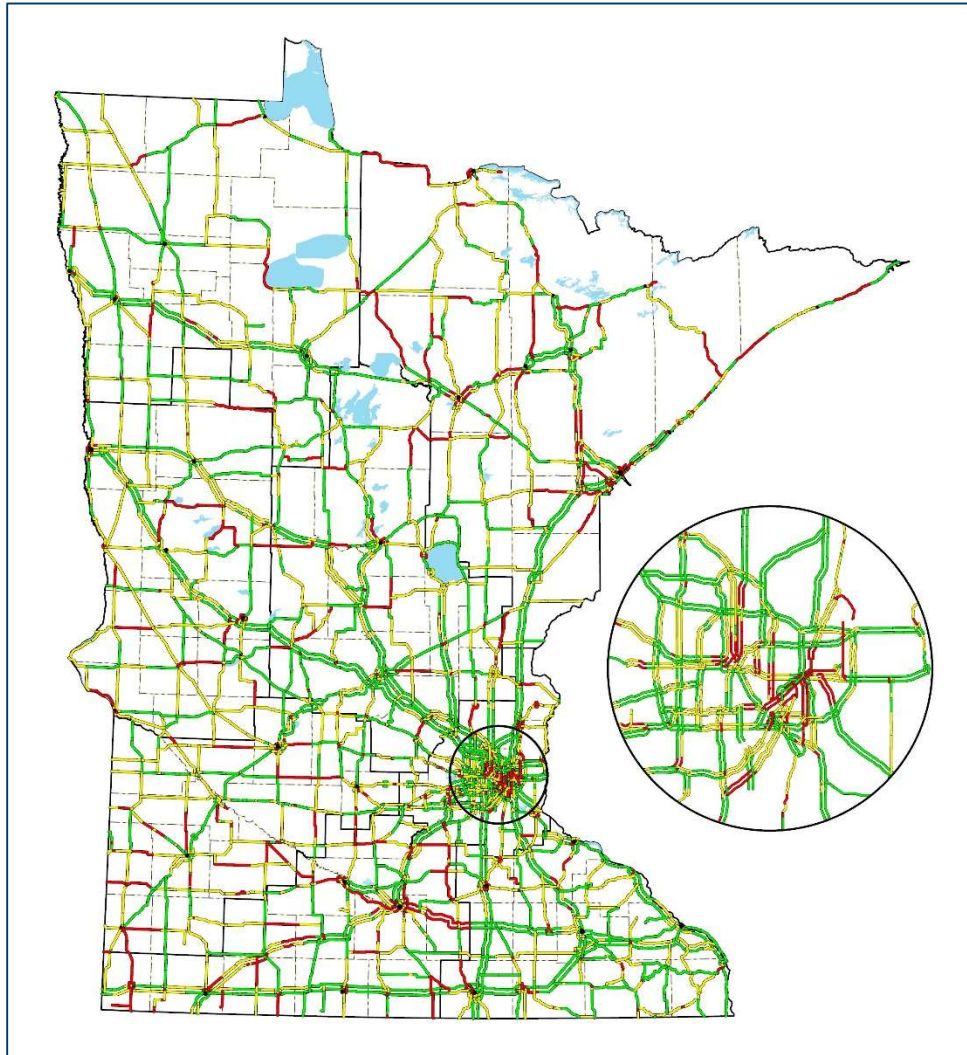
RSL is an estimate, in years, until an RQI will reach a value of 2.5, which is generally considered the end of a pavement's design life. Most pavements will need some type of major rehabilitation when their RQI is 2.5 or lower. RSL is determined from pavement deterioration curves. A regression curve is fit through the historical RQI data for each pavement section to provide an estimate of when its RQI will reach 2.5. If there is insufficient historical data to make this calculation, default models based on statewide pavement performance are used. Rehabilitation activities with long service lives add a considerable number of years to the RSL of a pavement. Short-term fixes, such as patching, temporarily increase a pavement's smoothness but do not result in many additional years of RSL.

Each year, RSL is calculated for all trunk highway segments. From these values, a length-weighted Average Remaining Service Life (ARSL) value is computed for the entire trunk highway system and each ATP. Service life

is added when any maintenance or rehabilitation is performed on a pavement section. Service life is lost as the condition of a pavement section deteriorates over time. The ARSL of the trunk highway system increases when projects add more life to the system than the sum of the system's deterioration.

Figure 4 is a statewide map showing the most recent RSL. The red, yellow, and green lines represent roadways that have an RSL of 0-3, 4-11, and 12 or more years, respectively.

Figure 4. Map of 2025 Statewide RSL



PERFORMANCE CATEGORIES

As shown in Table 1, MnDOT currently categorizes RQI pavement condition into five descriptive categories: "Very Good" (4.1 - 5.0), "Good" (3.1 - 4.0), "Fair" (2.1 - 3.0), "Poor" (1.1 - 2.0), and "Very Poor" (0.1 - 1.0). However, when reporting performance measures, the top two categories are combined and referred to as "Good" (3.1 - 5.0); likewise, the bottom two categories are combined and referred to as "Poor" (0.1 - 2.0). These two performance measure categories, which are highlighted in green and red in Table 1, respectively, will be used for the remainder of this report.

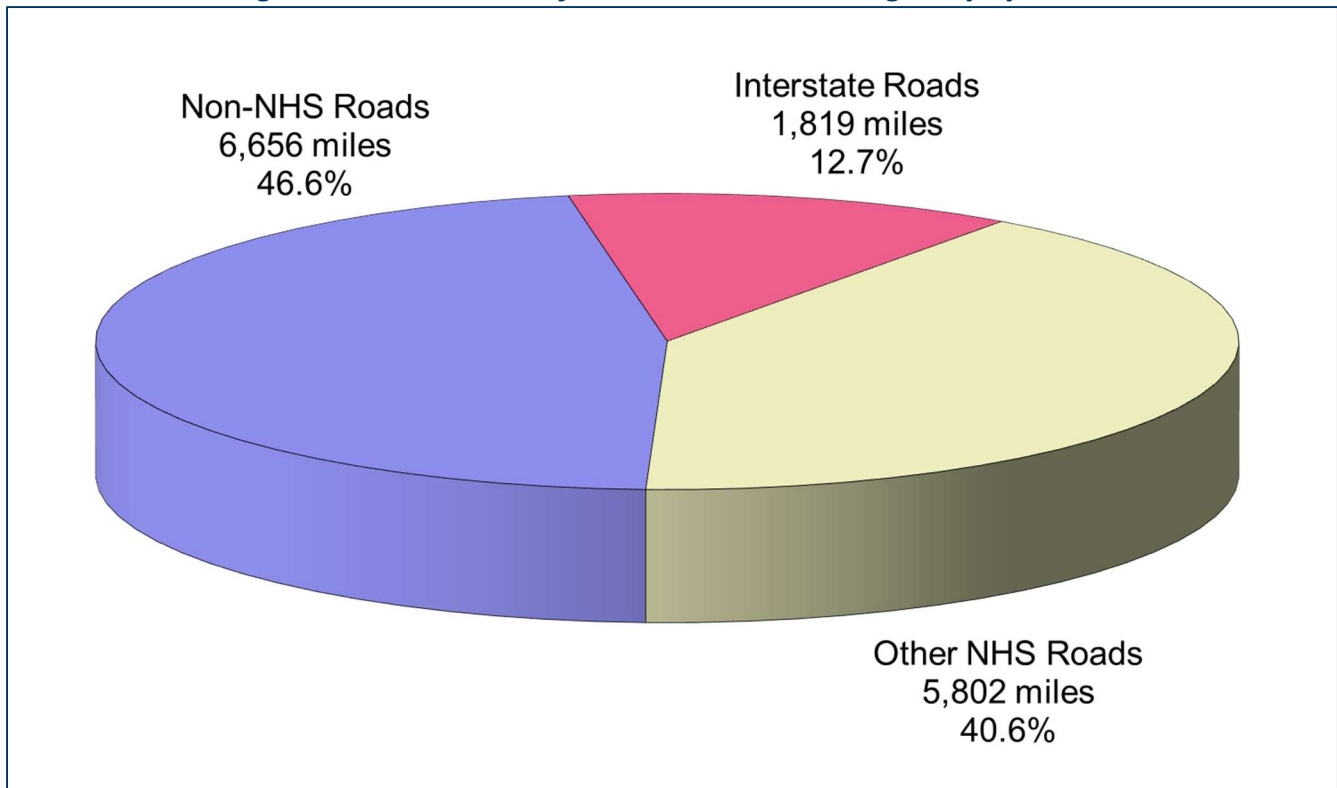
Table 1. RQI Performance Categories

Descriptive Category	RQI Range	Performance Measure Category
Very Good	4.1 – 5.0	Good
Good	3.1 – 4.0	
Fair	2.1 – 3.0	
Poor	1.1 – 2.0	Poor
Very Poor	0.1 – 1.0	

PERFORMANCE TARGETS

For reporting statewide pavement conditions, MnDOT divides its trunk highway system into three subsystems: “Interstate,” “Other NHS,” and “Non-NHS” roads. Minnesota’s trunk highway system distribution is shown in Figure 5.

Figure 5. Distribution of Minnesota’s Trunk Highway System



Interstates are highways that traverse more than one state. These roads, which comprise part of the National Highway System (NHS), account for 12.7 percent of Minnesota’s trunk highway system. Other NHS roads, the non-interstate highways within Minnesota’s NHS, constitute 40.6 percent of the trunk highway system. Lastly, Non-NHS roads make up the largest portion of Minnesota’s trunk highway system: 46.6 percent. Every ATP contains Other NHS and Non-NHS roads, but some—namely, ATP-2 and ATP-8—do not have any Interstates.

Each subsystem has its own set of targets as shown in Table 2.

Table 2. RQI Targets by System

System	Good RQI Target	Poor RQI Target
Interstate	70 percent or more	2 percent or less
Other NHS	65 percent or more	4 percent or less
Non-NHS	60 percent or more	8 percent or less

MnDOT’s targets for the Interstate system are 70 percent or more in Good condition and 2 percent or less in Poor condition. The targets for the Other NHS system are 65 percent or more in Good condition and 4 percent or less in Poor condition. Finally, the targets for the Non-NHS system are 60 percent or more in Good and 8 percent or less in Poor. Note: the Poor target for Non-NHS roads officially decreased from 10 to 8 percent with the adoption of the Minnesota State Highway Investment Plan (MnSHIP) in February 2024.

Federal Highway Administration (FHWA) definitions of Good, Fair, and Poor are different than what is described above. Since this document is not intended to be the official document regarding MnDOT’s pavement system to be submitted to the FHWA, FHWA measures and targets will not be discussed in this report. That information can be obtained from MnDOT’s annual Highway Performance Monitoring System (HPMS) submittal.

Similarly, since forecasted pavement condition values are covered in MnDOT’s annual State Transportation Improvement Program (STIP) and Capital Highway Investment Plan (CHIP) reports, this report will cover only present and past condition values.

RQI targets are based on the percentage of miles in MnDOT’s Good and Poor categories. Because these are statewide objectives, some ATPs will outperform the targets while others will not meet them. However, limiting the variation between ATPs’ pavement conditions ensures the public does not encounter drastic differences in pavement performance while driving throughout the state.

STATEWIDE HISTORICAL RQI TRENDS

In 2025, the overall smoothness of the state highway system worsened, with 216 fewer miles in the Good category and 8 more miles in the Poor category, compared to 2024.

The quantity of Good roads for the Interstate, Other NHS, Non-NHS systems decreased by 11, 49, and 156 miles, respectively.

Once a pavement falls into Poor condition, it normally will require major rehabilitation or reconstruction to restore a meaningful amount of service life. Because these types of repairs are expensive, the recovery of Poor pavements is constrained by limited budgetary resources. Nonetheless, even a small reduction in the number of Poor miles is an accomplishment. Both the Interstate and Other NHS systems experienced a modest decrease in Poor roads: 1 and 4 miles, respectively. These improvements, however, were offset by the 13-mile increase of Non-NHS roads in Poor condition.

2016-2025 Interstate RQI Trends (Figure 6 on page 12)

Interstate Good worsened between 2024 and 2025, dropping from 92.7 to 92.1 percent. Over the same one-year period, Interstate Poor improved for the third consecutive year, decreasing from 0.2 to 0.1 percent. The

amount of Interstate roads in Poor condition in 2025—2 total miles—is historically low. Both the 2025 Interstate Good and Poor values met their Interstate RQI target.

2016-2025 Other NHS RQI Trends (Figure 7 on page 13)

In 2025, Other NHS Good regressed from the previous year, dropping from 78.5 to 78.0, while Other NHS Poor remained unchanged at 0.9 percent. Although both results met their Other NHS RQI target, the trend of performance decline continued for a fourth consecutive year for the Good category.

2016-2025 Non-NHS RQI Trends (Figure 8 on page 14)

Between 2024 and 2025, both Non-NHS Good and Poor worsened. The proportion of Good pavement decreased from 71.0 to 68.5 percent, while the proportion of Poor pavement increased from 2.0 to 2.2 percent. In 2025, both the Good and Poor values met their Other NHS RQI target.

Although the overall smoothness of Minnesota’s trunk highway system deteriorated between 2024 and 2025, significant improvements occurred between 2016 and 2025. During this ten-year period, the amount of Good pavement rose from 81.0 to 92.1 percent for Interstate, 71.5 to 78.0 percent for Other NHS, and 65.8 to 68.5 percent for Non-NHS. Over the same timeframe, the amount of Poor pavement decreased from 1.5 to 0.1 percent for Interstate, 2.0 to 0.9 percent for Other NHS, and 5.5 to 2.2 percent for Non-NHS.

RQI COMPARISON BY ATP

Table 3 shows the change in Good and Poor miles for the Interstate, Other NHS, and Non-NHS systems between 2024 and 2025. Green cells in the table indicate an improved condition (i.e., fewer Poor or more Good miles), while red cells indicate a worse condition (i.e., fewer Good or more Poor miles). Changes less than one half of a mile in length are rounded to zero and shown as white cells. Of the 44 ATP comparisons in Table 3, 12 indicate a smoother overall condition, while 21 indicate a rougher overall condition. Eleven of the comparisons indicate no change in condition.

Table 3. ATP Comparison of Good and Poor RQI Miles in 2024 and 2025

ATP	Change in Miles Over Last Year (2024-2025)					
	Interstate		Other NHS		Non-NHS	
	Good	Poor	Good	Poor	Good	Poor
1	-1	0	1	-2	-59	7
2	NA	NA	-6	1	-14	-3
3	3	0	-29	0	3	2
4	-17	0	-7	0	-45	3
6	-1	0	-8	-1	0	0
7	-7	0	-5	0	6	2
8	NA	NA	-18	-2	-22	3
Metro	12	-2	23	0	-25	-1

2025 ATP Comparison of Interstate RQI (Table 3 above and Figure 9 on page 15)

In 2025, all ATPs met the Good target (70 percent or more) on the Interstate system. Values ranged from 85.1 percent (ATP-4) to 99.6 percent (ATP-3). Two ATPs—3 and Metro—had an increase in the number of miles in Interstate Good in 2025 compared to 2024, while four ATPs—1, 4, 6, and 7—had a decrease. Statewide, there were 11 fewer miles in Good condition on the Interstate system in 2025, compared to 2024.

All ATPs easily met the Poor target (2 percent or less) on the Interstate system in 2025. Values ranged from 0.0 percent (ATP-1, ATP-3, and ATP-7) to 0.3 percent (ATP-4). The quantity of Interstate Poor roads between 2024 and 2025 changed very little. During this period, the amount of Interstate Poor pavement remained the same for all ATPs except Metro, which had a decrease of 2 miles.

2025 ATP Comparison of Other NHS RQI (Table 3 above and Figure 10 on page 16)

Every ATP surpassed the Good target (65 percent or more) on the Other NHS system in 2025 except ATP-1 and ATP-7, which remained below the target for a second consecutive year. Values in 2025 ranged from 60.7 percent (ATP-7) to 87.8 percent (ATP-6). Two ATPs—1 and Metro—had an increase in the number of miles in Other NHS Good between 2024 and 2025, while six ATPs—2, 3, 4, 6, 7, and 8—had a decrease. The largest drop in Good pavements occurred in ATP-3, which had a decrease of 29 miles. Statewide, there were 49 fewer miles in Good condition on the Other NHS system in 2025, compared to 2024.

In 2025, all ATPs met the Poor target (4 percent or less) on the Other NHS system. Values ranged from 0.2 percent (ATP-6 and Metro) to 1.7 percent (ATP-1). Between 2024 and 2025, Other NHS Poor miles declined in ATPs 1, 6, and 8; rose slightly in ATP-2; and remained unchanged in ATPs 3, 4, 7, and Metro. Statewide, the amount of Other NHS pavement in Poor condition decreased by 4 miles over the one-year period.

2025 ATP Comparison of Non-NHS RQI (Table 3 above and Figure 11 on page 17)

Apart from ATP-8 and Metro, all ATPs met the Good target (60 percent or more) in 2025. Values ranged from 50.2 percent (Metro) to 83.2 percent (ATP-6). Two ATPs—3 and 7—had a modest increase in the number of Non-NHS Good miles between 2024 and 2025, whereas five ATPs—1, 2, 4, 8, and Metro—experienced a decrease. The largest declines occurred in ATP-1 and ATP-4, which had a decrease of 59 and 45 miles, respectively. The number of miles in Non-NHS Good remained unchanged for ATP-6 between 2024 and 2025. Statewide, there were 156 fewer miles in Non-NHS Good in 2025. Over the past three years, statewide Non-NHS Good has decreased by a total of 438 miles.

In 2025, all ATPs met the Poor target (8 percent or less) on the Non-NHS system. Values ranged from 0.3 percent (ATP-2) to 7.2 percent (Metro). Between 2024 and 2025, two ATPs—2 and Metro—experienced a reduction in the number of Non-NHS Poor miles, while five ATPs—1, 3, 4, 7, and 8—had an increase. The number of miles in Non-NHS Poor remained unchanged for ATP-6. Statewide, Non-NHS Poor decreased by 1 mile over the one-year period.

AVERAGE RSL

RSL is defined as the number of years until a pavement's corresponding RQI reaches a value of 2.5 or lower. This is the point where most people begin to complain that a road's roughness is objectionable, and major rehabilitation is likely needed. ARSL is the average RSL for an ATP or the entire state.

2016-2025 ARSL Trends (Figure 12 on page 18)

In 2025, the ARSL was 20.2 years on the Interstate, 12.1 years on the Other NHS, and 9.0 years on the Non-NHS systems. Although these values remain at healthy levels, the statewide ARSL for all three systems worsened between 2024 and 2025. The ARSL of the Interstate, Other NHS, and Non-NHS systems decreased by 0.1, 0.2, and 0.5 years, respectively. A simultaneous decline in ARSL across all three functional classes from one year to the next is highly unusual and did not occur at any other point between 2016 and 2025.

2025 ATP Comparison of ARSL (Figure 13 on page 19)

By ATP, the ARSL of the Interstate system ranged from 16.9 years (ATP-4) to 23.6 years (ATP-1). The ARSL of the Other-NHS system ranged from 9.3 years (ATP-7) to 14.4 years (ATP-6 and Metro), while the ARSL of the Non-NHS system ranged from 6.7 (Metro) to 10.8 (ATP-3).

GOVERNMENT ACCOUNTING STANDARDS BOARD, STATEMENT 34

The Government Accounting Standards Board (GASB), a private, nonprofit organization, was established in 1984 by the Financial Accounting Foundation. The Foundation oversees GASB, provides funding, and appoints the members of GASB's board. The Foundation has a similar relationship with GASB's sister organization, the private-sector, standard-setting Financial Accounting Standards Board. GASB's span of influence covers over 84,000 state, county, and other local governmental units. Also impacted by GASB's financial reporting standards are organizations such as public utilities, municipal hospitals, and state universities. GASB, which does not impact the federal government, establishes concepts and standards that guide the preparation of external financial reports. GASB establishes generally accepted accounting principles that are utilized by auditors charged with evaluating state and local government financial statements.

In June 1999, GASB established a new financial reporting standard that fundamentally changed the way state and local governments report their financial results. GASB Statement 34 (GASB 34), "Basic Financial Statements—and Management's Discussion and Analysis—for State and Local Governments," requires that major infrastructure assets acquired, expanded, or improved in fiscal years beginning after June 15, 1980, be capitalized in financial statements. GASB 34 also states that the cost of using the assets must be reflected. The U.S. Department of Transportation's Office of Asset Management prepared a detailed report of GASB 34 in November 2000. This FHWA Primer can be accessed at: <https://www.fhwa.dot.gov/infrastructure/asstmgmt/010019.pdf>.

One of the primary purposes of GASB 34 is to check whether an agency is adequately maintaining the condition of its infrastructure and disclosing all future liabilities.

To determine and track the cost of agency assets, GASB 34 requires governments to report a depreciation expense or use an optional reporting method called "the modified approach." A government agency is permitted to use the modified approach if it meets or exceeds the following four requirements:

- Having a current inventory of eligible assets,
- Documenting the condition of those assets via a reproducible assessment procedure,
- Demonstrating that assets are being preserved at a level predetermined by the government, and
- Estimating the actual cost to maintain and preserve the assets.

With all the above requirements achieved, MnDOT has been authorized to use the modified approach. For the purposes of GASB 34, MnDOT established that the state trunk highway system will be maintained at the following levels:

- Principal Arterial System: Average PQI of 3.0 or higher
- Non-Principal Arterial System: Average PQI of 2.8 or higher

2016-2025 PQI Trends (Figure 14 on page 20)

MnDOT has surpassed the established GASB 34 levels in every year of the ten-year reporting period. The Average PQI in 2025 was 3.6 and 3.4 for the Principal Arterial and Non-Principal Arterial systems, respectively—well above the minimum levels.

ADDITIONAL INFORMATION

Additional information about the condition of Minnesota’s trunk highway system, including color-coded maps of the most recent indices, can be obtained from MnDOT’s Pavement Management Unit’s website:

<http://www.dot.state.mn.us/materials/pvmtmgmt.html>.

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Figure 6. Ten-Year Statewide RQI for Interstate Roads

2016-2025 Statewide Ride Quality Index: Interstate Roads
 Percent in **Good (RQI ≥ 3.1)** and **Poor (RQI ≤ 2.0)** Condition

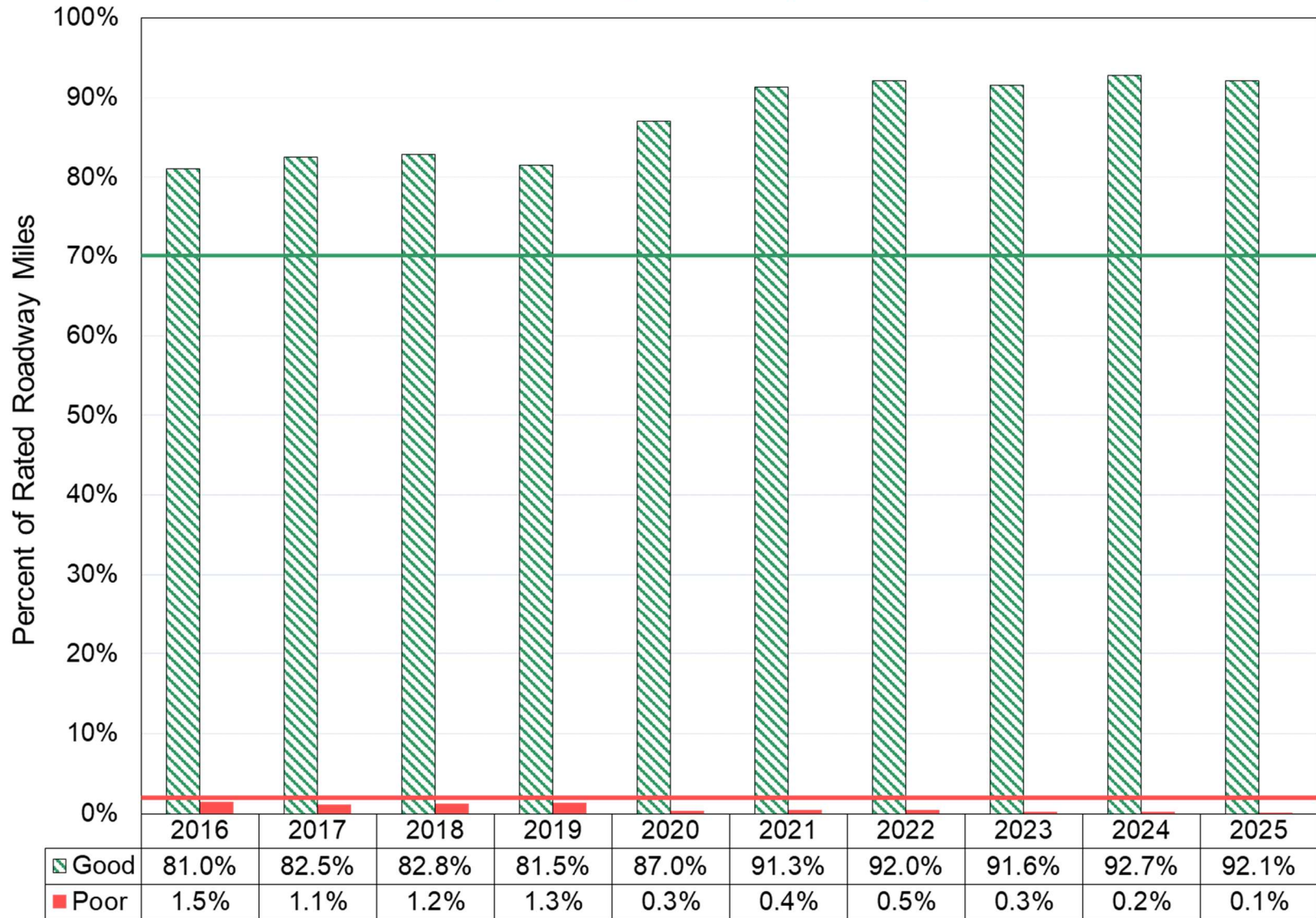


Figure 7. Ten-Year Statewide RQI for Other NHS Roads

2016-2025 Statewide Ride Quality Index: Other NHS Roads
 Percent in **Good (RQI ≥ 3.1)** and **Poor (RQI ≤ 2.0)** Condition

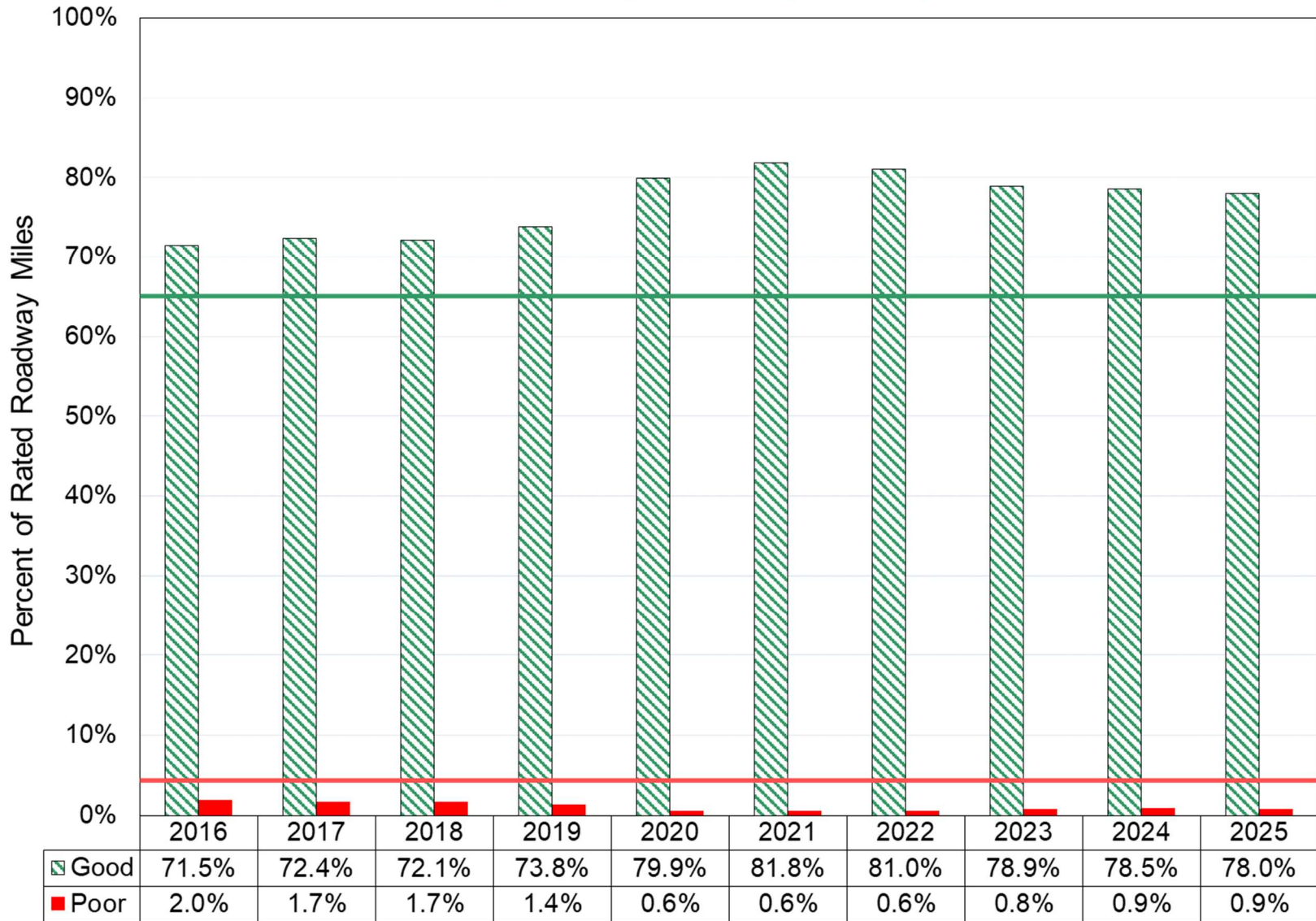


Figure 8. Ten-Year Statewide RQI for Non-NHS Roads

2016-2025 Statewide Ride Quality Index: Non-NHS Roads
 Percent in **Good (RQI ≥ 3.1)** and **Poor (RQI ≤ 2.0)** Condition

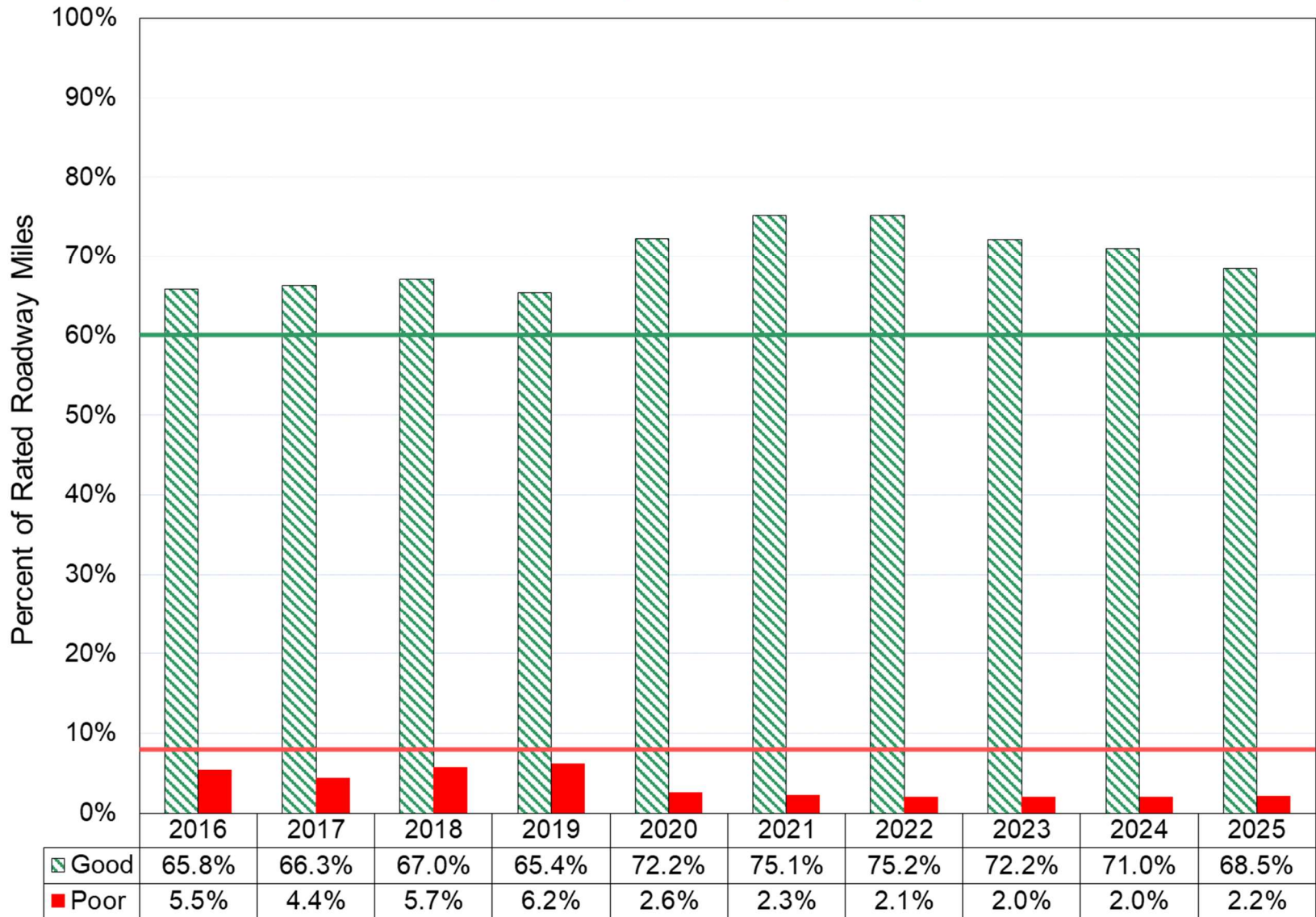


Figure 9. 2025 RQI by ATP for Interstate Roads

2025 Ride Quality Index by ATP: Interstate Roads
 Percent in **Good** (RQI ≥ 3.1) and **Poor** (RQI ≤ 2.0) Condition

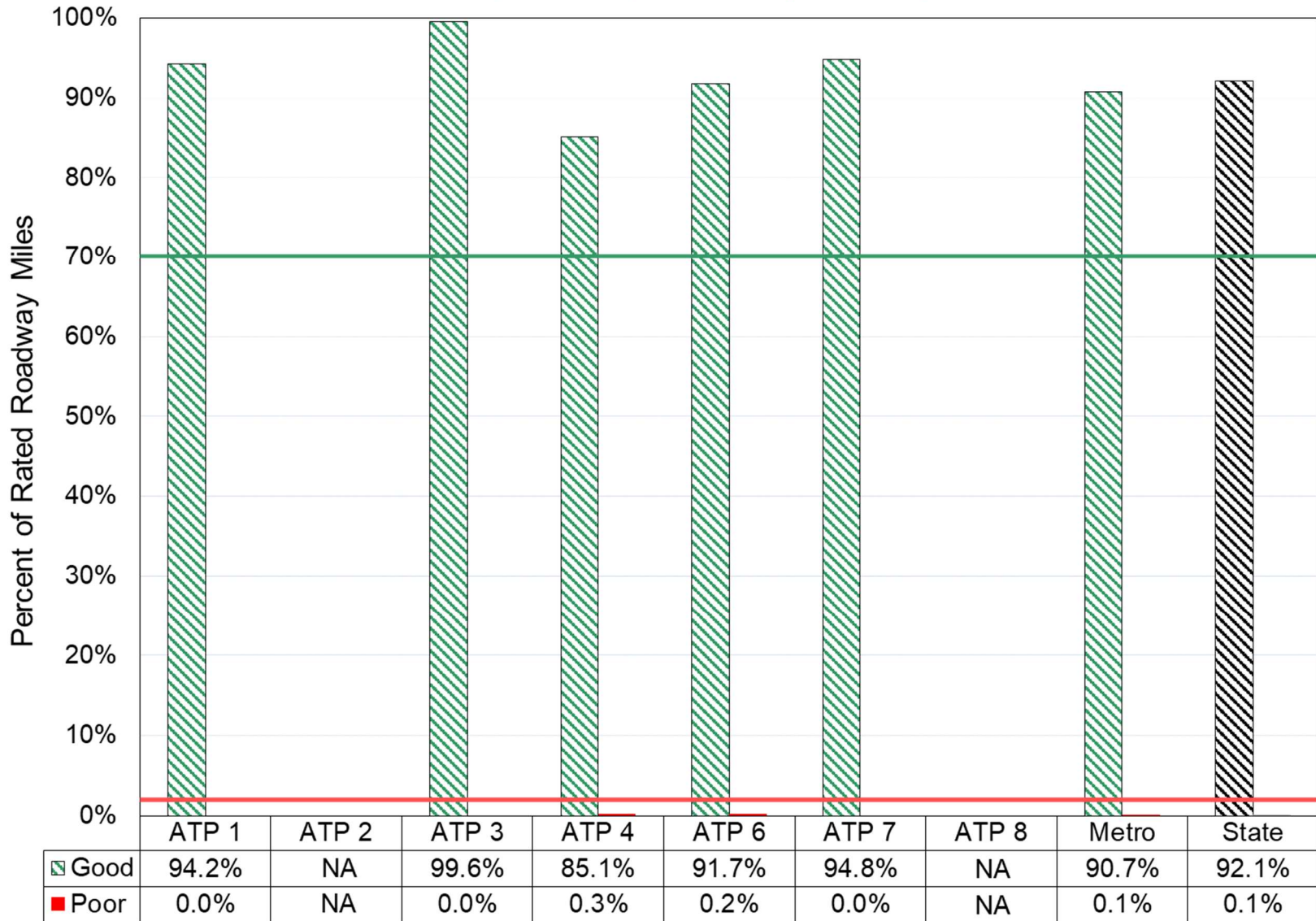


Figure 10. 2025 RQI by ATP for Other NHS Roads

2025 Ride Quality Index by ATP: Other NHS Roads
 Percent in **Good (RQI ≥ 3.1)** and **Poor (RQI ≤ 2.0)** Condition

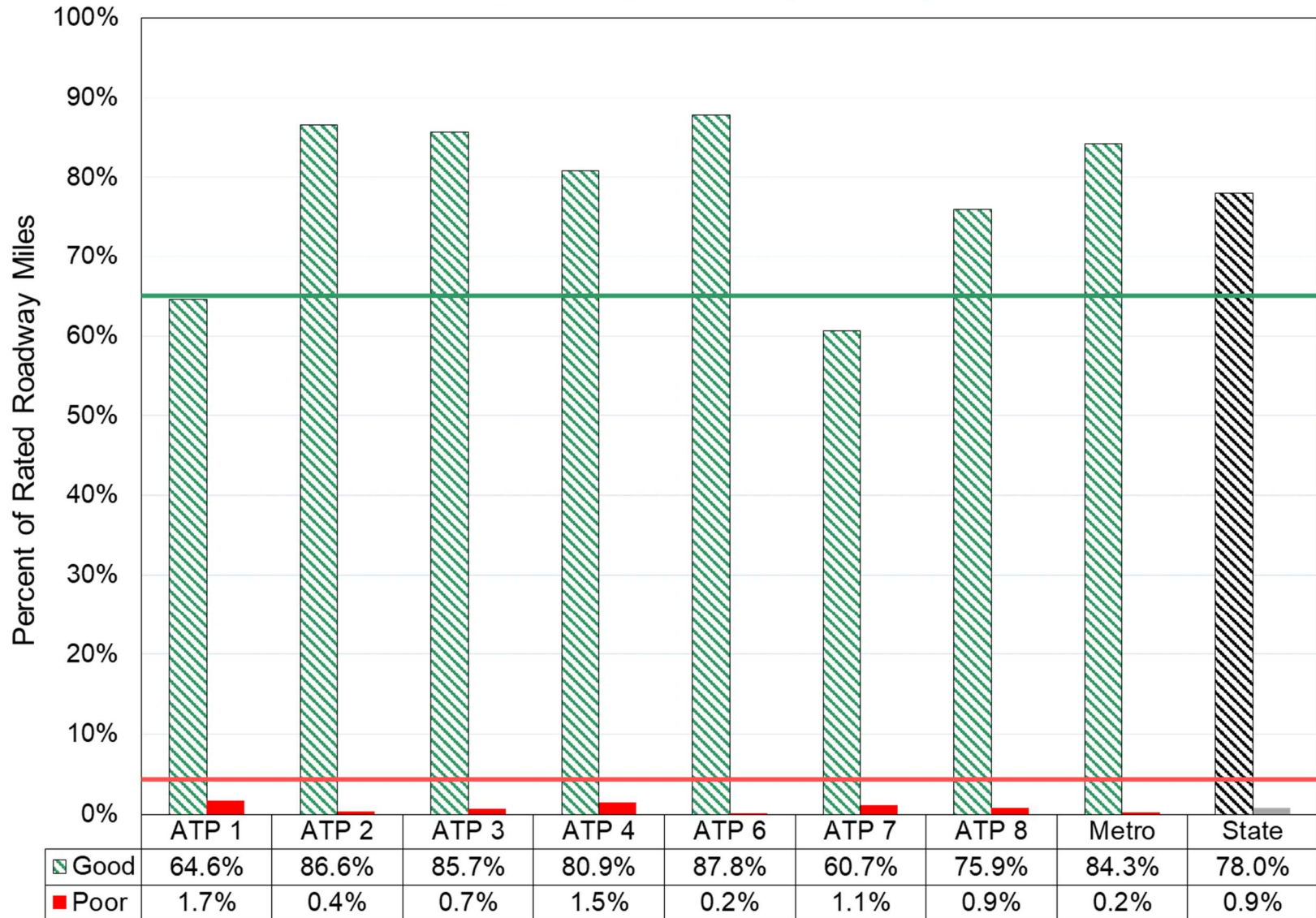


Figure 11. 2025 RQI by ATP for Non-NHS Roads

2025 Ride Quality Index by ATP: Non-NHS Roads
 Percent in **Good (RQI ≥ 3.1)** and **Poor (RQI ≤ 2.0)** Condition

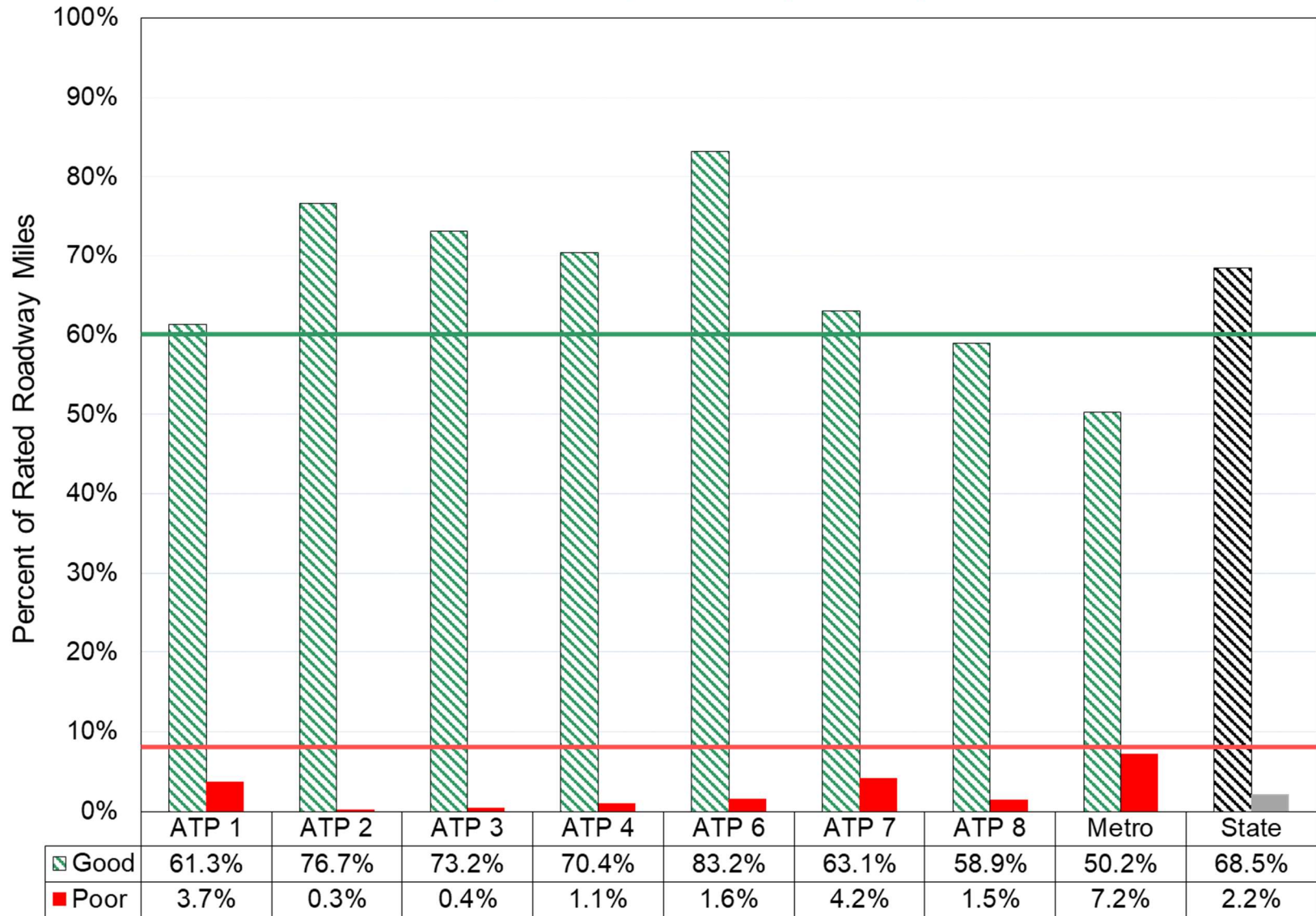


Figure 12. Ten-Year Statewide ARSL

2016-2025 Statewide Average Remaining Service Life

Poor: 0-3 years, Fair: 4-11 years, Good: 12+ years

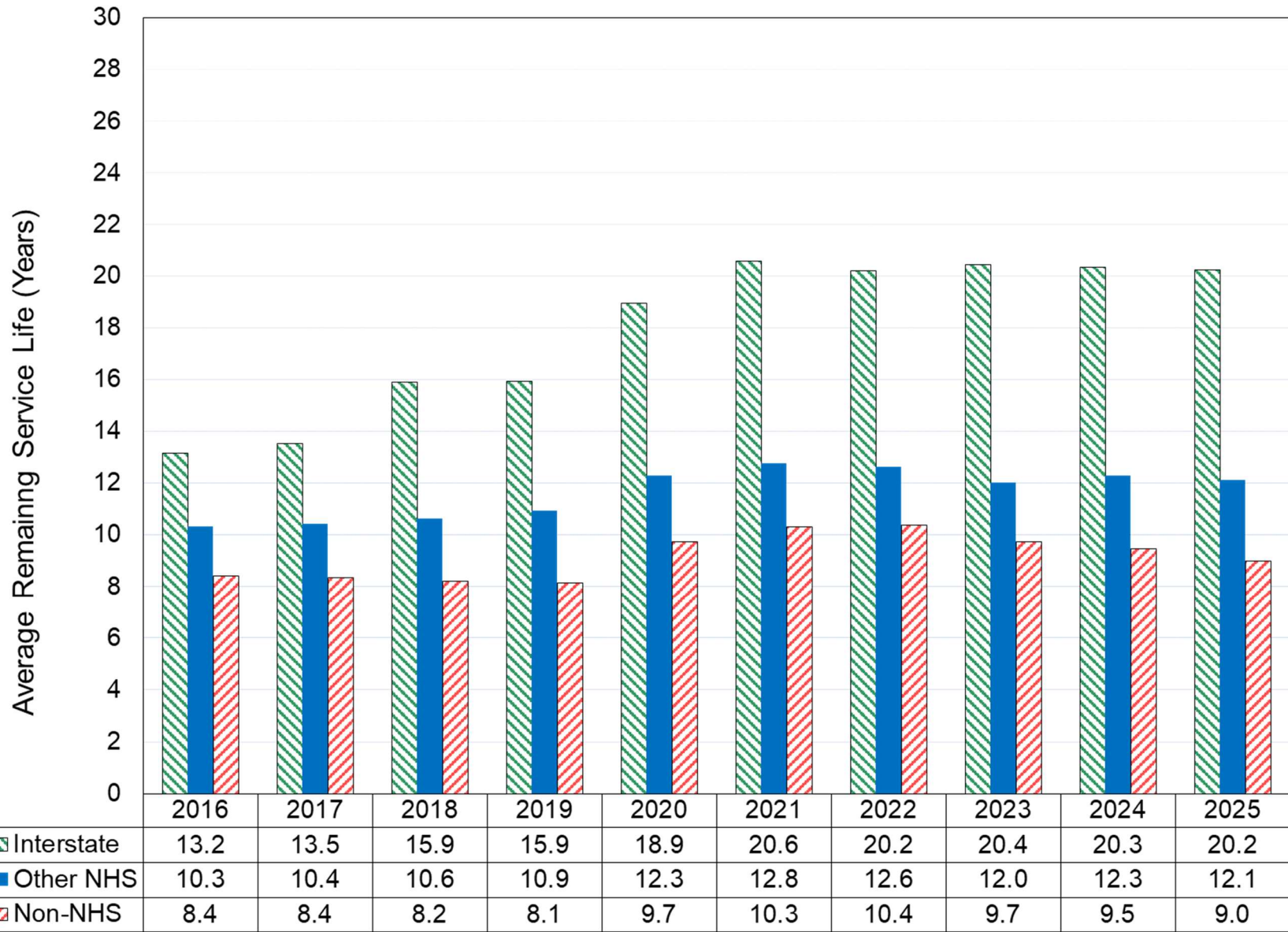
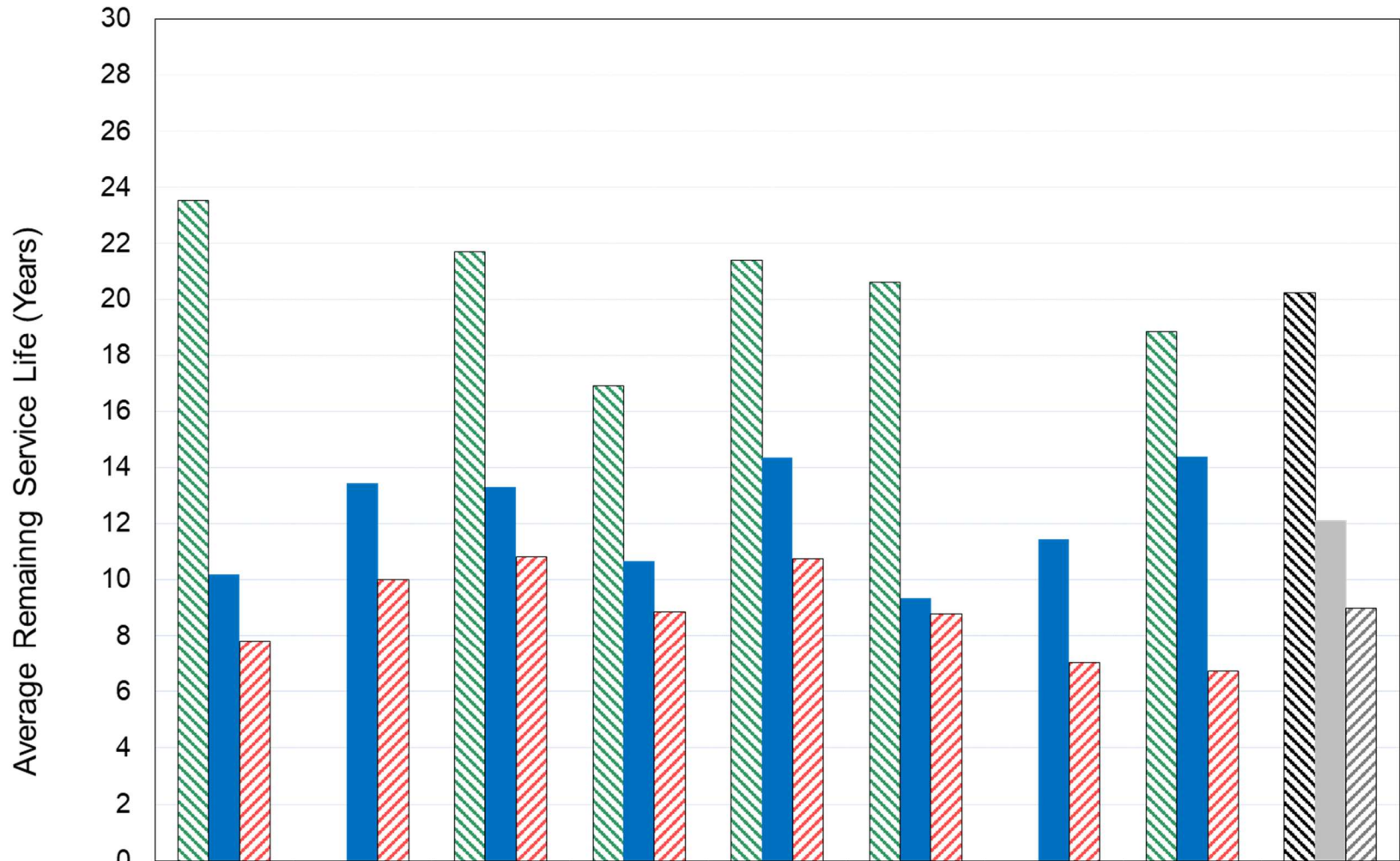


Figure 13. 2025 ARSL by ATP

2025 Statewide Average Remaining Service Life by ATP
 Poor: 0-3 years, Fair: 4-11 years, Good: 12+ years



	ATP 1	ATP 2	ATP 3	ATP 4	ATP 6	ATP 7	ATP 8	Metro	State
IS	23.6	NA	21.7	16.9	21.4	20.6	NA	18.8	20.2
Other NHS	10.2	13.5	13.3	10.7	14.4	9.3	11.5	14.4	12.1
Non-NHS	7.8	10.0	10.8	8.8	10.7	8.8	7.0	6.7	9.0

Figure 14. Ten-Year Statewide Average PQI for GASB 34 Reporting

2016-2025 Statewide Average Pavement Quality Index
Principal Arterial and Non-Principal Arterial Values for GASB 34

