



New Mexico DEPARTMENT OF
TRANSPORTATION
MOBILITY FOR EVERYONE

New Mexico Transportation Asset Management Plan

TIRS
June 2023

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-NMDOT Capital Program & Investments Division Director



Why TAM?

One of the New Mexico Department of Transportation's key priorities is to keep the state's bridges and pavements in a desired state of good repair. Transportation Asset Management is an important aspect of that effort. The TAMP helps ensure the efficient and responsible investment of taxpayer dollars to achieve the best possible road and bridge conditions, given their current condition levels and anticipated funding.



NMDOT TAMP

- Addresses federal requirements
 - 23CFR490
 - 23CFR515.9
 - 23CFR515.15
 - 23CFR515.11
- Is Bipartisan Infrastructure Law (BIL) compliant
- Provides an assessment of the condition of pavements and bridges on the national highway system
- Identifies future performance gaps based on current and anticipated finances and asset conditions
- Details NMDOT's financial plan

The TAMP helps improve decision-making on maintenance, preservation, rehabilitation, and replacement projects in order to achieve desired performance over the lifespan of the transportation system.

23 CFR 515.9: Asset management plan requirements

- Objectives
- Measures and targets
- Summary condition description
- Performance gap identification
- Life-cycle planning
- Risk management analysis
- Financial plan
- Investment strategies

TAM Objectives

○ Data-driven

- Pavement & Bridge Condition
- Condition Analysis Report (CAR)

Year	Route	From	To	Length	Lane Miles	Federal GFP
2022	NM104P	21.3	21.4	0.1	0.2	1-GOOD
2022	NM104P	21.4	21.5	0.1	0.2	1-GOOD
2022	NM104P	21.5	21.6	0.1	0.2	2-FAIR
2022	NM104P	21.6	21.7	0.1	0.2	1-GOOD
2022	NM104P	21.7	21.8	0.1	0.2	2-FAIR

○ Long-term

- Scenario Analysis
- Performance Targets
- Cost-effective Planning

District	Roadway	Project Location	FuncClass	MPO or RTPO	Baseline Score	Adjust Score
3	I40	Bernalillo	1 - Interstate	MPO	48	58.4
3	FL1720, NM14, NM536	Bernalillo	4 - Minor Arterial	MPO	49	53.8
3	6.1-6.7, 2.7-.3.0, 3.9-4.9, 5.9-6.7, 229-230.3	Bernalillo	1 - Interstate	MPO	47	51.3
3	I25	Bernalillo	1 - Interstate	MPO	46	50.5
3	NM6	Bernalillo	3 - Principal Arterial	MPO	41	50.4
3	NM165	Sandoval	5 - Major Collector	MPO	33	47.4

○ Integrated

- Policy → Planning → Program Development → Implementation → Performance Analysis

○ Transparent

- Clear Goals, Objectives, Targets & Reporting
- Tell a Clear Story

Performance Measure	2 Year (2023)	4 Year (2025)
Percentage of Interstate pavements on the NHS in Good condition	42.7%	37.0%
Percentage of Interstate pavements on the NHS in Poor condition	3.2%	3.8%
Percentage of Non-Interstate pavements on the NHS in Good condition	40.6%	37.4%
Percentage of Non-Interstate pavements on the NHS in Poor condition	3.2%	3.9%
Percentage of bridges on the NHS in Good condition	30.8%	32.9%
Percentage of bridges on the NHS in Poor condition	4.1%	5.5%

○ Continuous Improvement

- Regularly Take Stock
- Move Forward with Priority Initiatives

CONDITION ANALYSIS REPORT (CAR)



PROJECT EVALUATION PROCESS & THE CAR FORM

Prioritization of projects that best support the overall well-being of the transportation system and its users, as well as making progress toward achieving the goals set forth in the TAMP and other NMDOT planning documents.

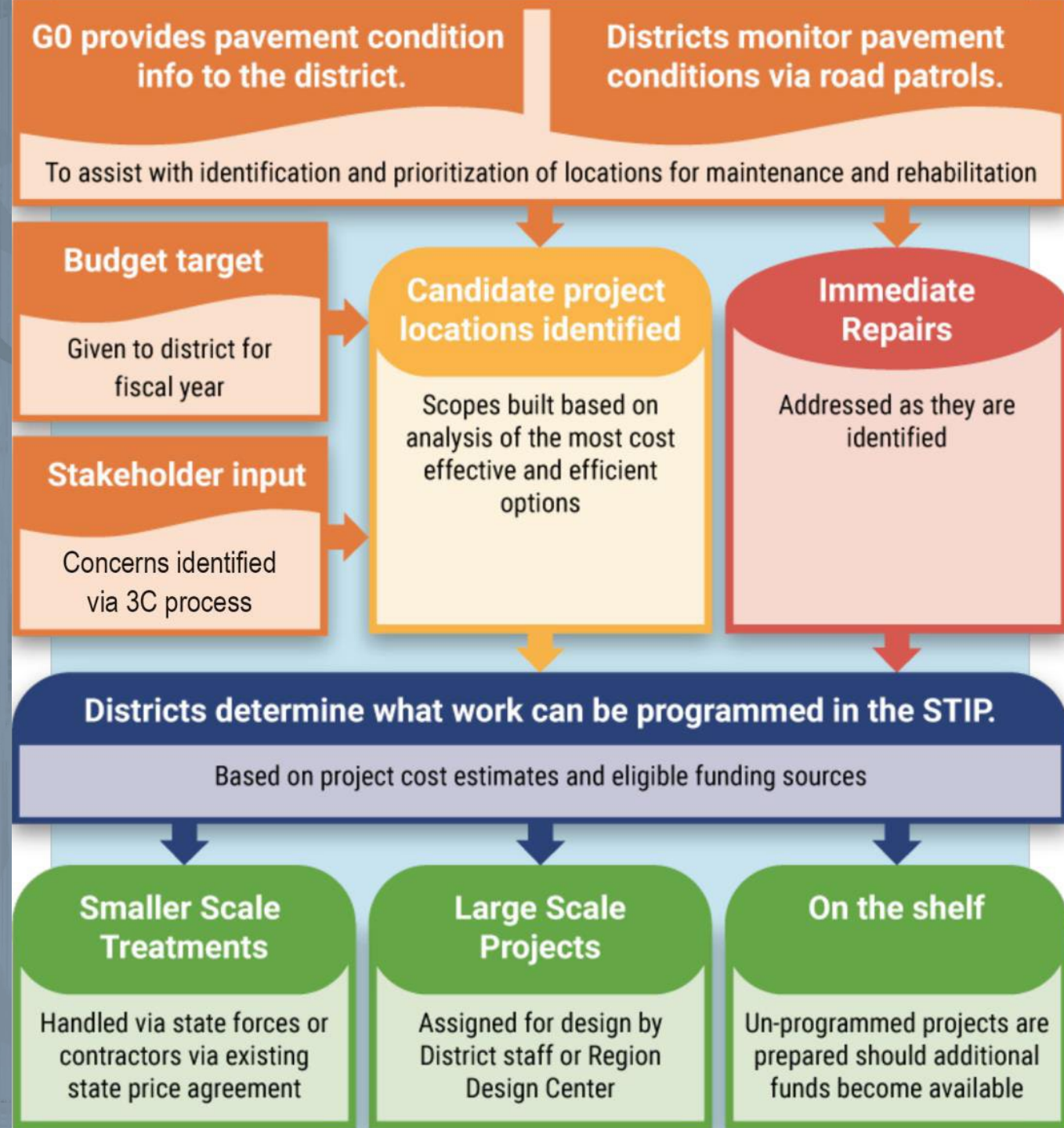


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Identification of Pavement Projects

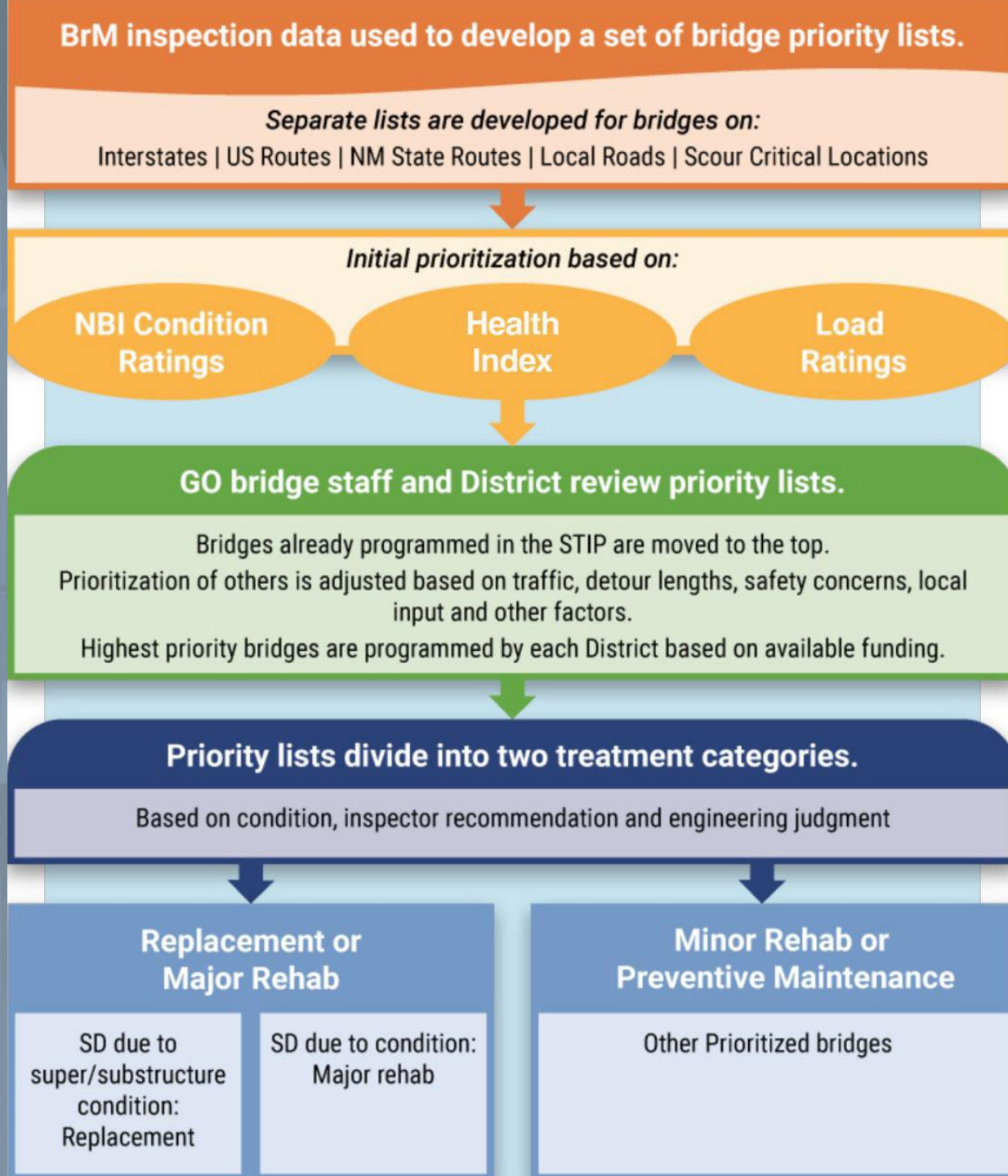
While there is variation across Districts on how pavement projects are identified, prioritized, and programmed, the following steps are typical.

The GO provides pavement condition data to the Districts. In addition, Districts do their own monitoring of pavement conditions via road patrols.



Identification of Bridge Projects

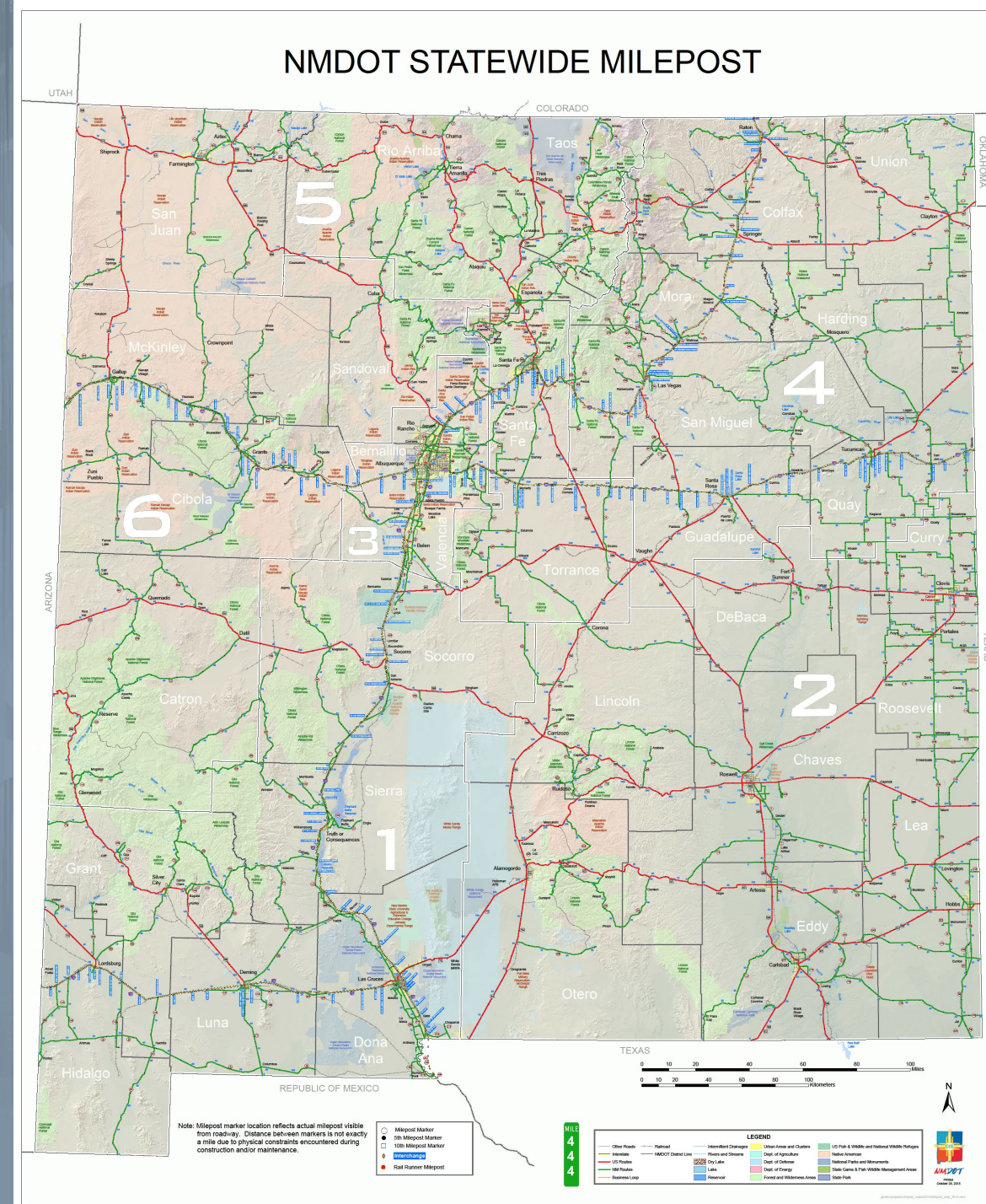
Prioritization of capital bridge projects for the STIP is conducted through a collaborative process between the GO and the Districts.



Overview

Asset Information is Summarized:

1. NMDOT-maintained system (portions of NHS)
2. NHS (covering both state and non-state-maintained facilities)
3. Asset inventory and conditions as of 2021

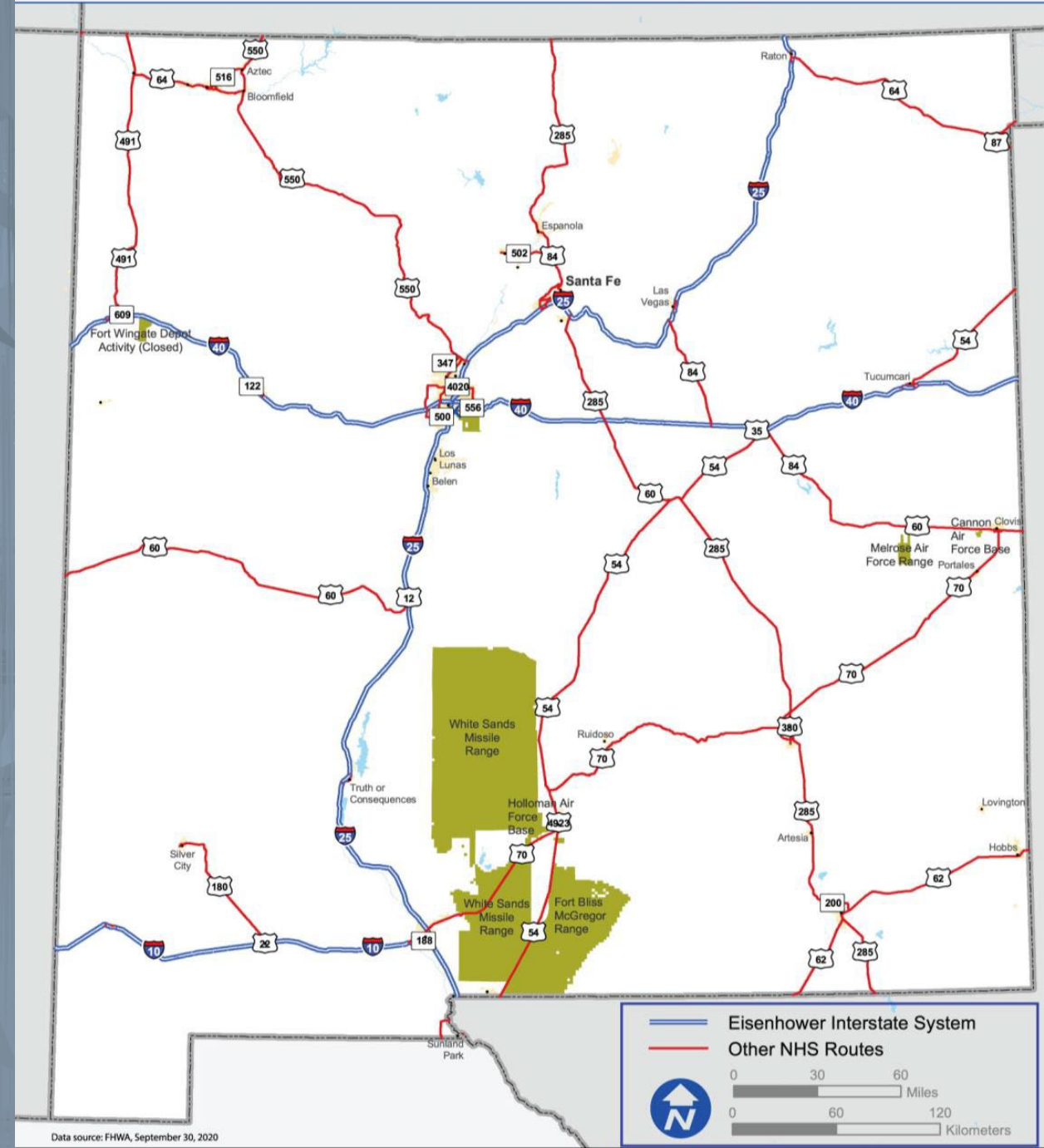


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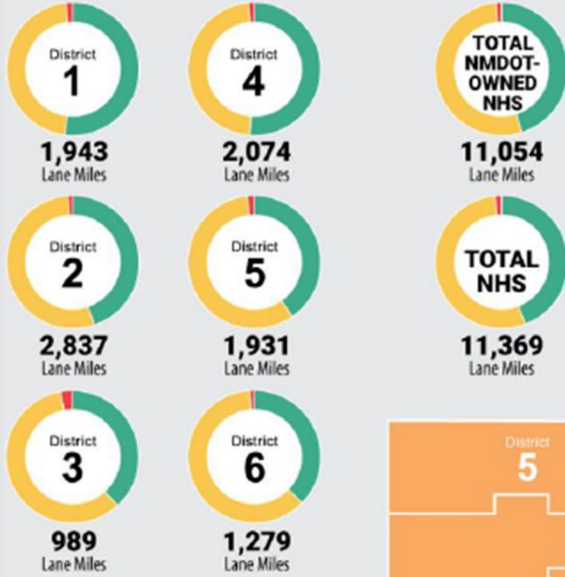
New Mexico National Highway System



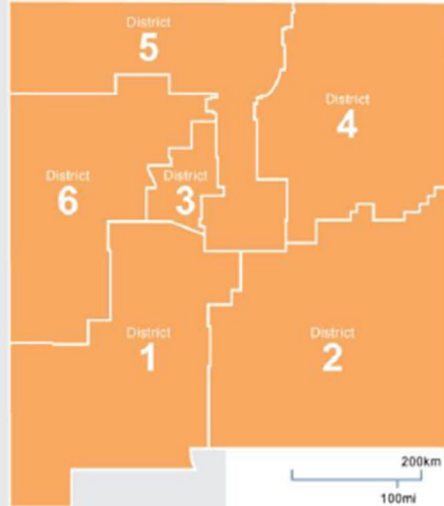
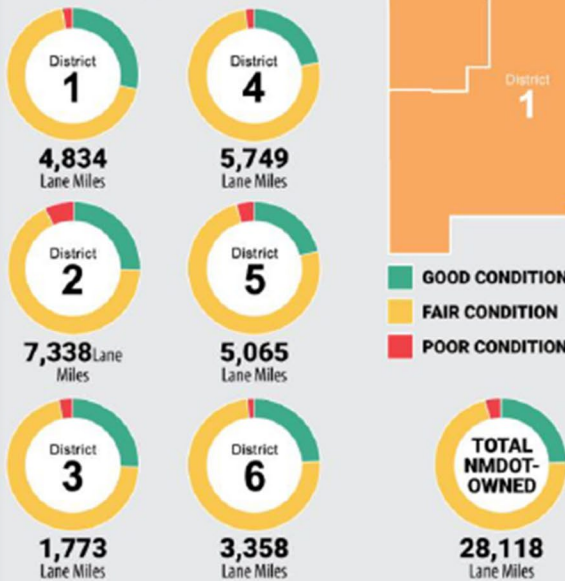
System Summary

Pavements

NMDOT-Owned NHS



All NMDOT-Owned

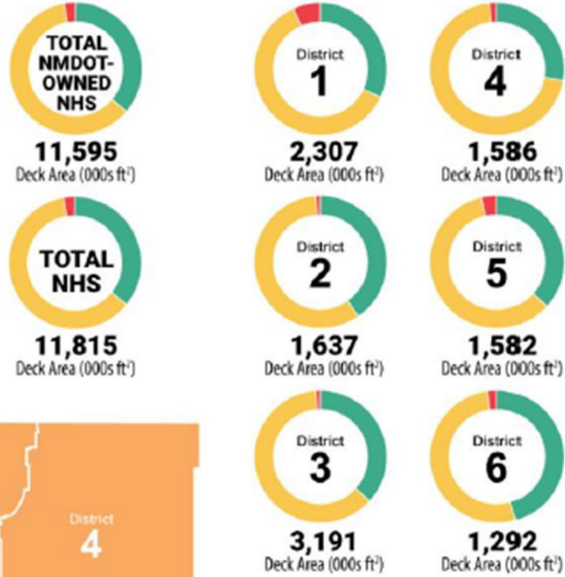


- GOOD CONDITION
- FAIR CONDITION
- POOR CONDITION

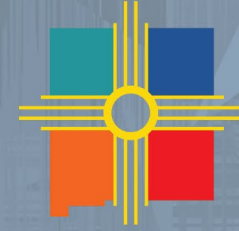
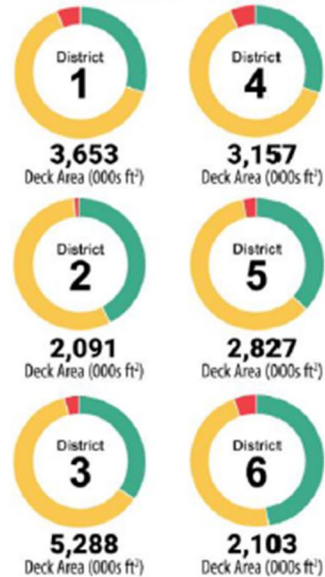
NMDOT Owned Bridges = 2,977
 NMDOT Owned Bridges on the NHS = 1,617

Bridges

NMDOT-Owned NHS



All NMDOT-Owned



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Performance Analysis Gap



	Good	Fair	Poor
Interstate Pavements (Lane Miles)			
10-Year Desired State Projection	57.20%	41.40%	1.40%
Current Performance	54.86%	44.20%	0.94%
Current Gap	2.34%		(-0.46%)
10-Year Current Funding Projection	35.91%	58.53%	5.56%
10-Year Projected Gap	21.29%		4.16%

	Good	Fair	Poor
Non-Interstate NHS Pavements (Lane Miles)			
10-Year Desired State Projection	49.43%	48.40%	2.18%
Current Performance	38.78%	59.45%	1.78%
Current Gap	10.65%		(-0.40%)
10-Year Current Funding Projection	40.86%	53.68%	5.46%
10-Year Projected Gap	8.57%		3.28%

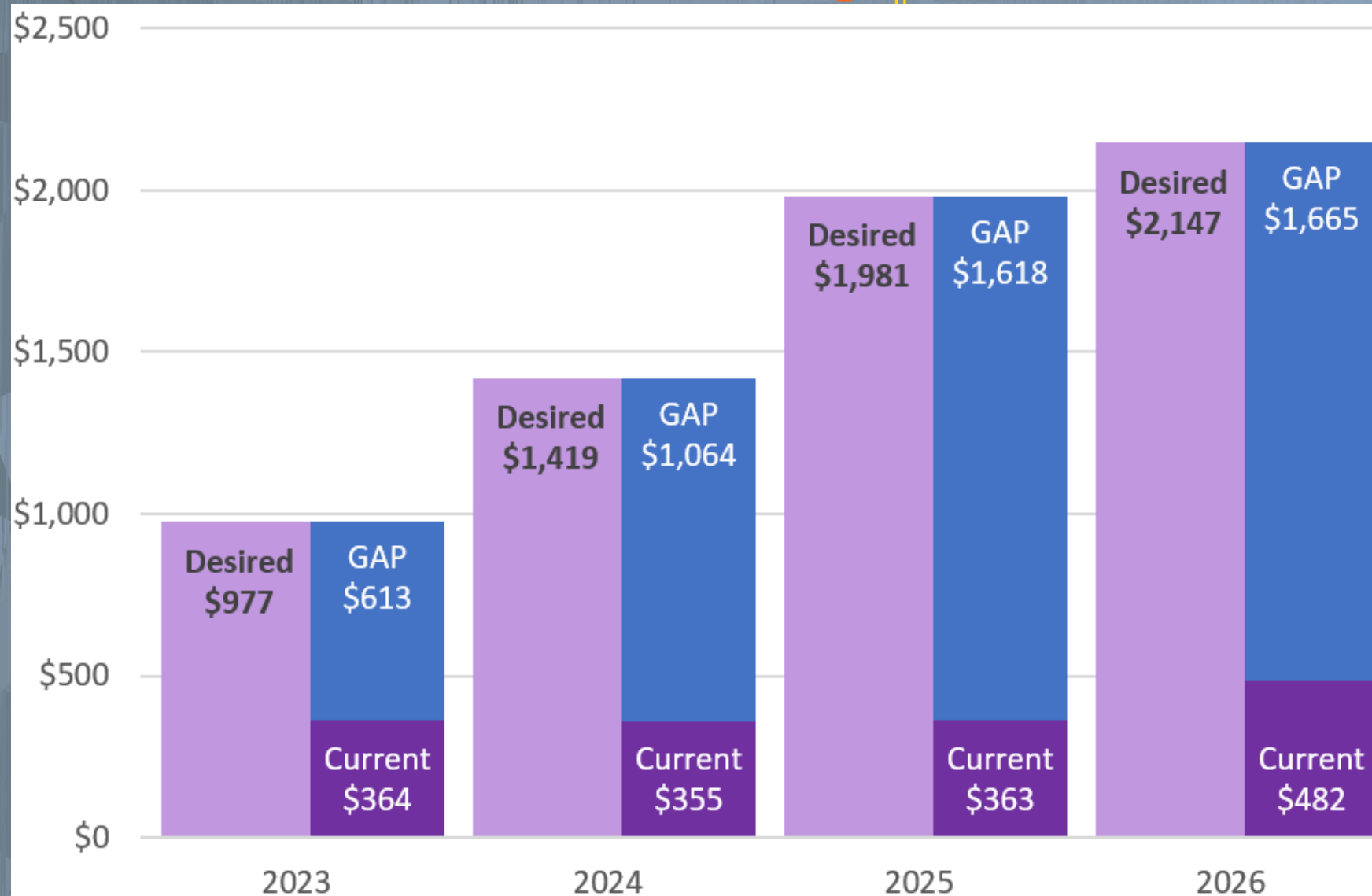
	Good	Fair	Poor
NHS Bridges (Deck Area)			
10-Year Desired State Projection	50.36%	47.75%	1.89%
Current Performance	36.01%	61.41%	2.59%
Current Gap	14.4%		0.7%
10-Year Current Funding Projection	26.75%	67.26%	6.00%
10-Year Projected Gap	23.61%		4.10%

Transportation Asset Management Plan Goals Total Pavement + Bridge



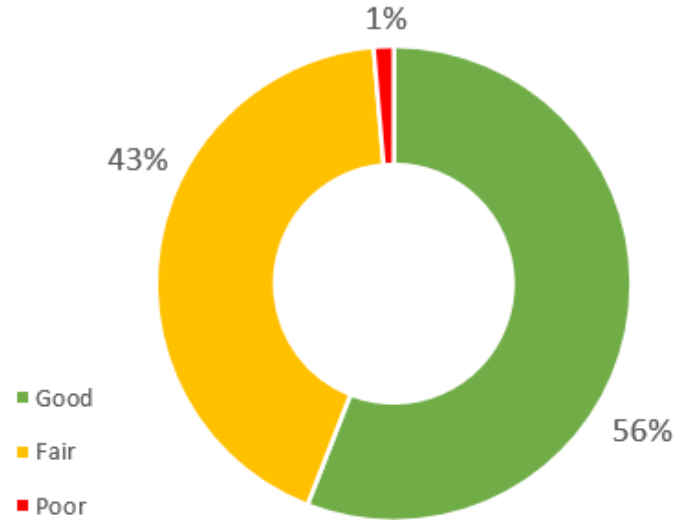
We are held accountable to meet TAMP Condition and Planned Spending goals Annually (Consistency Determination in June), Biennially (PMF Mid-Term Reporting in October 2023) and Quadrennially (PMF FPP in October 2025).

If we do not meet these Condition and Planned Spend goals, we may be subject to restricted Federal Funding.

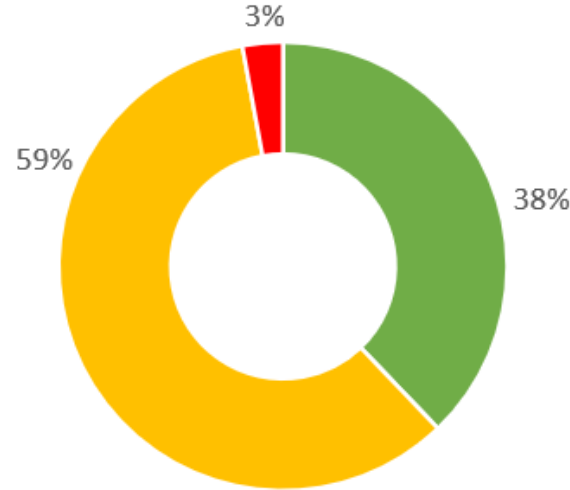


PAVEMENT CONDITIONS

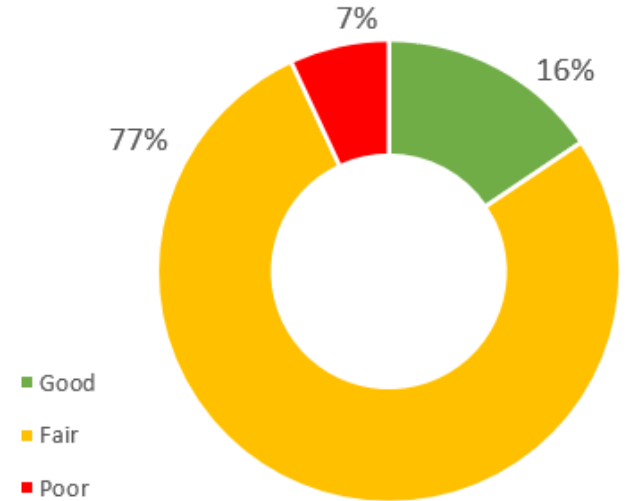
Chart Area SFY22 Interstate Pavement



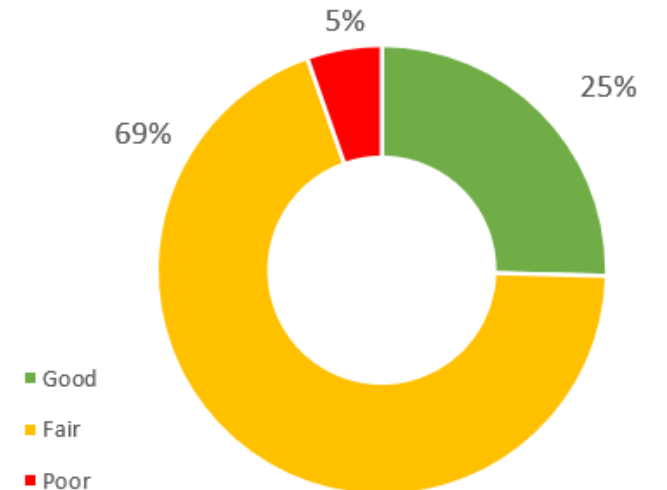
SFY22 Non-Interstate NHS Pavement



SFY22 Non-NHS Pavement



SFY22 All State Owned Pavement

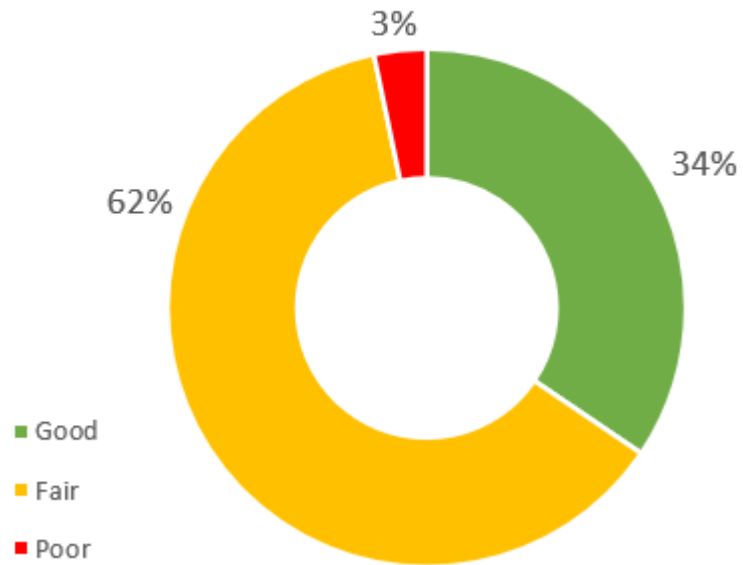


Pavement	Good	Fair	Poor	Lane Miles
Interstate	56%	43%	1%	4,172
Non-Interstate NHS	38%	59%	3%	6,851
Non-NHS	16%	77%	7%	17,442
Total	25%	69%	5%	28,464

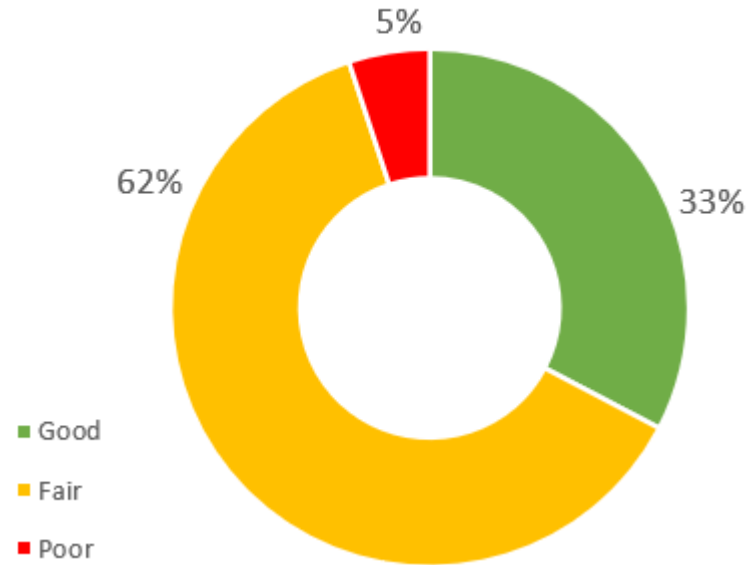
Based on Federal 0.10 mile segments as required by FHWA for TAMP reporting.

BRIDGE CONDITIONS

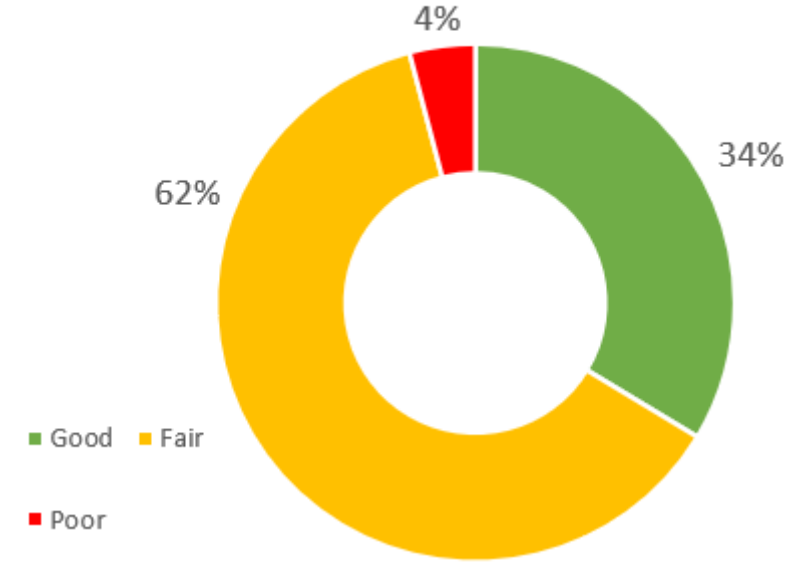
SFY22 NHS Bridges



SFY22 Non-NHS Bridges



SFY22 All State Owned Bridges



Bridges	Good	Fair	Poor	Total
NHS	34%	62%	3%	1,603
Non-NHS	33%	62%	5%	1,371
Total	34%	62%	4%	2,974



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Questions

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