



PAVEMENT & BRIDGE CONDITION PERFORMANCE MEASURES

2023 – Annual Data Update*



*Targets set in reporting year 2023



FHWA'S 8 PAVEMENT & BRIDGE CONDITION PERFORMANCE MEASURES



Data Source:
KDOT

- 1 % of Interstate pavements in GOOD condition
- 2 % of Interstate pavements in POOR condition
- 3 % of Non-Interstate NHS pavements in GOOD condition
- 4 % of Non-Interstate NHS pavements in POOR condition



Data Source:
KDOT

- 5 % of NHS bridges by deck area classified as in GOOD condition
- 6 % of NHS bridges by deck area classified as in POOR condition
- 7 % of Non-NHS bridges by deck area classified as in GOOD condition
- 8 % of Non-NHS bridges by deck area classified as in POOR condition

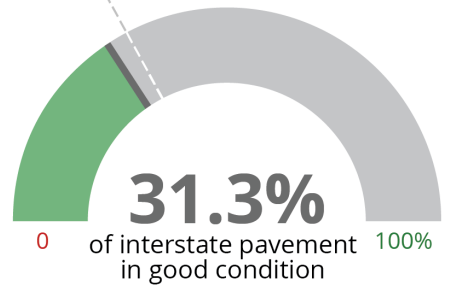




PAVEMENT CONDITIONS: SUMMARY

PM 1: % of Interstate Pavement in Good Condition

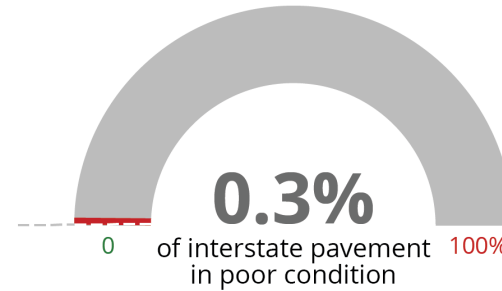
2023 Target: >35.0%



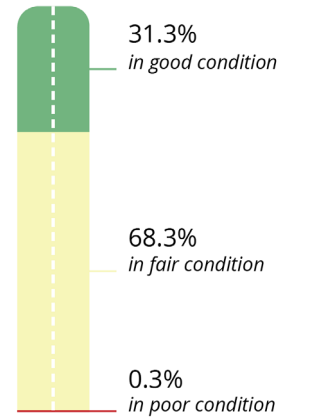
Target Not Met

PM 2: % of Interstate Pavement in Poor Condition

2023 Target: <0.1%

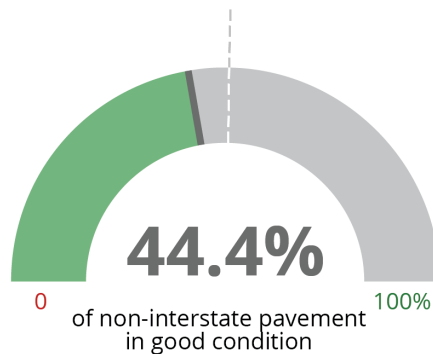


Target Not Met



PM 3: % of Non-Interstate Pavement in Good Condition

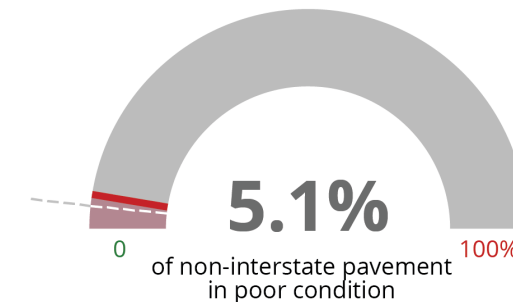
2023 Target: >51%



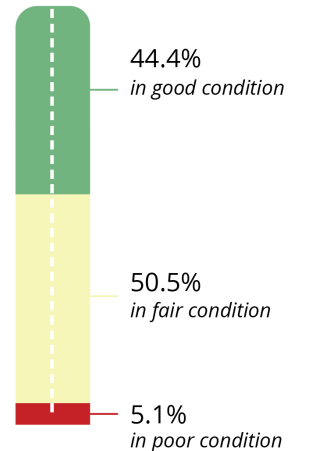
Target Not Met

PM 4: % of Non-Interstate Pavement in Poor Condition

2023 Target: <3.5%



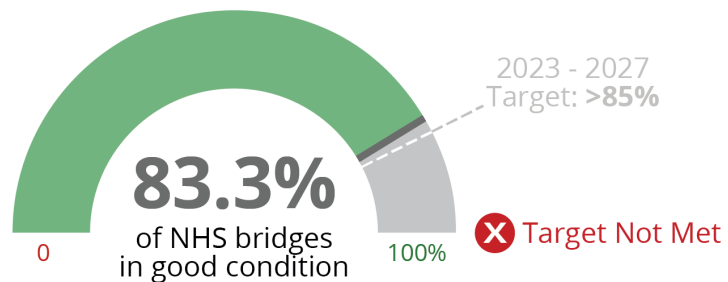
Target Not Met



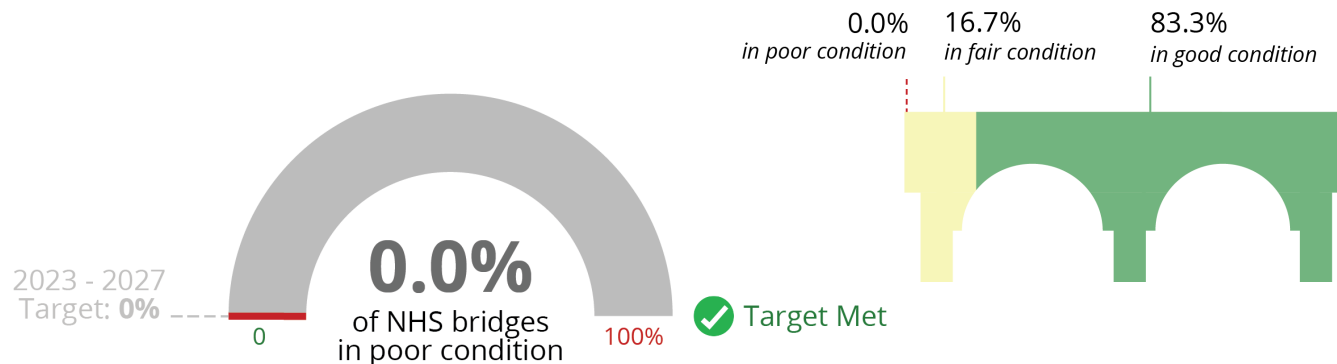


BRIDGE CONDITIONS: SUMMARY

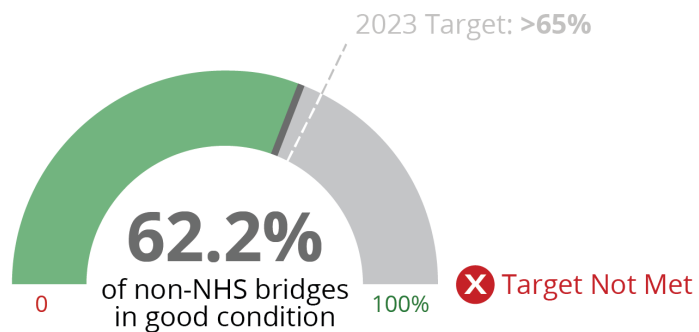
PM 5: % of NHS Bridges in Good Condition



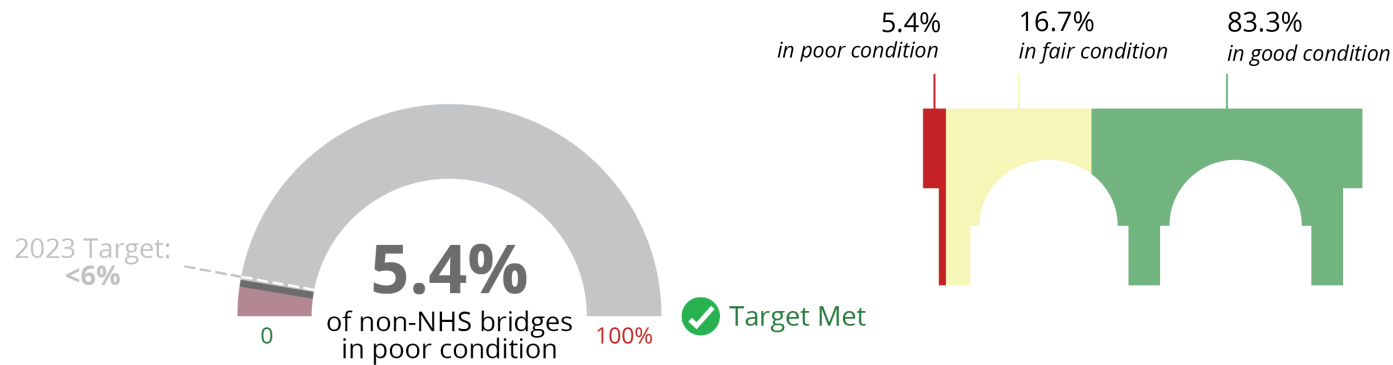
PM 6: % of NHS Bridges in Poor Condition



PM 7: % of Non-NHS Bridges in Good Condition



PM 8: % of Non-NHS Bridges in Poor Condition





BACKGROUND ON PAVEMENT CONDITIONS

- Pavement condition is evaluated by measuring International Roughness Index (IRI), Present Serviceability Index (PSR), Cracking Percent, Rutting, and Faulting (uneven slabs of concrete). See the figure to view the pavement thresholds for good, fair, and poor.
- *2016 was the first year of reported data to comply with federal requirements – Data provided by the Kansas Department of Transportation (KDOT).



§ 490.311 Metric Thresholds in Final Rule

Rating	Good	Fair	Poor
IRI <i>(inches/mile)</i>	<95	95-170	>170
PSR* <i>(0.0-5.0 value)</i>	≥4.0	2.0-4.0	≤2.0
Cracking Percent <i>(%)</i>	<5	CRCP: 5-10 Jointed: 5-15 Asphalt: 5-20	>10 >15 >20
Rutting <i>(inches)</i>	<0.20	0.20-0.40	>0.40
Faulting <i>(inches)</i>	<0.10	0.10-0.15	>0.15

*PSR may be used only on routes with posted speed limit < 40mph.



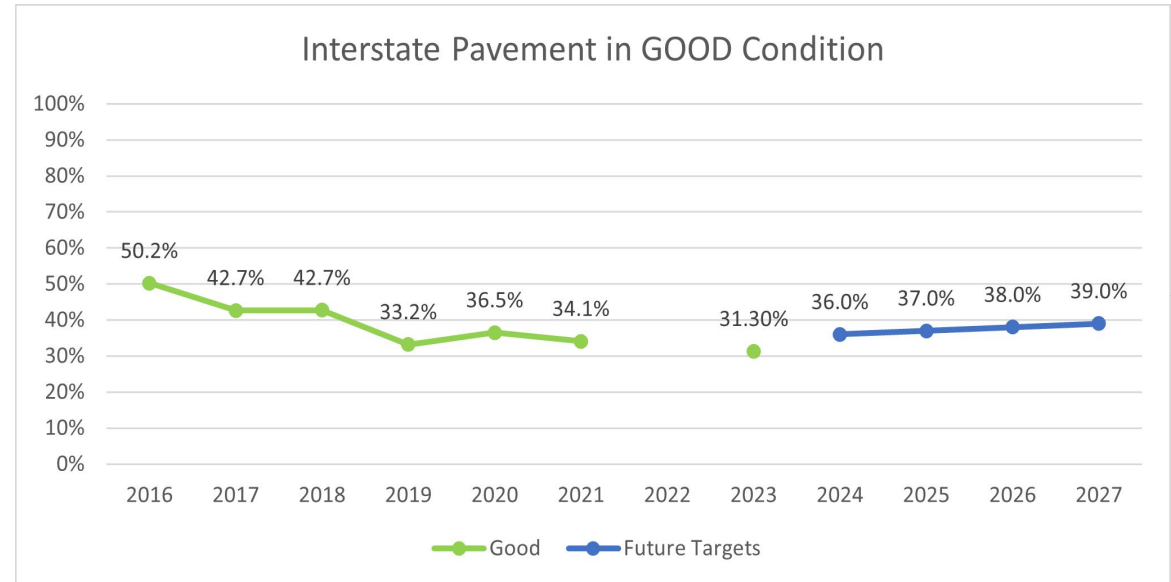


TARGET ①: % OF INTERSTATE PAVEMENTS IN GOOD CONDITION

Year	% in Good Condition	Target
2016	50.2%	
2017	42.7%	
2018	42.7%	50%
2019	33.2%	55%
2020	36.5%	60%
2021	34.1%	65%
2022		-
2023	31.3%	35.0%
2024		36.0%
2025		37.0%
2026		38.0%
2027		39.0%



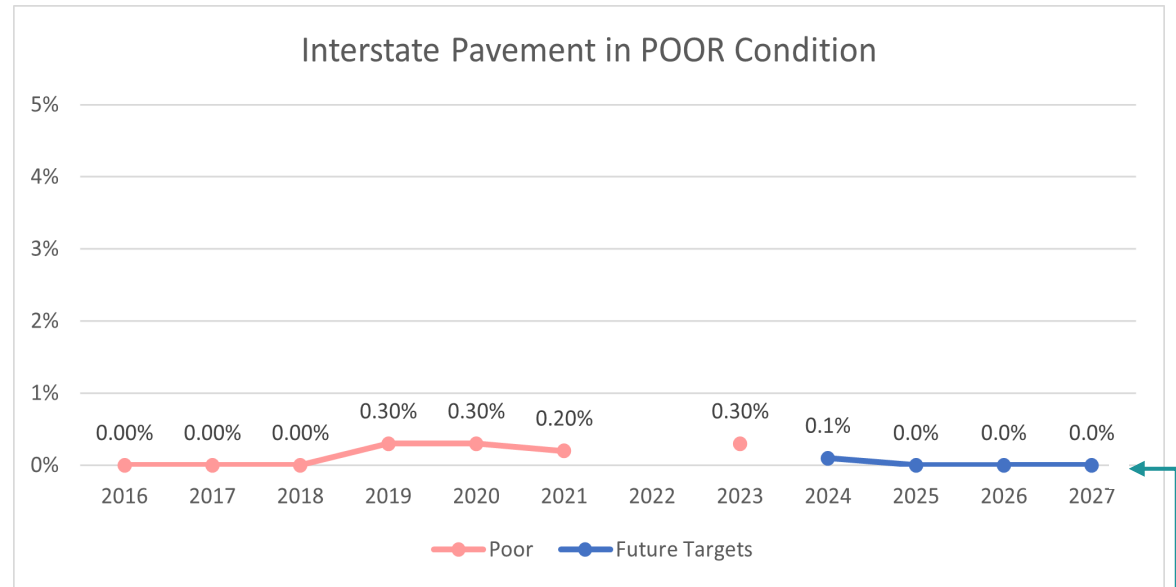
Off Target





TARGET ②: % OF INTERSTATE PAVEMENTS IN POOR CONDITION

Year	% in Poor Condition	Target
2016	0.0%	
2017	0.0%	
2018	0.0%	0%
2019	0.3%	0%
2020	0.3%	0%
2021	0.2%	0%
2022		-
2023	0.3%	0.1%
2024		0.1%
2025		0.1%
2026		0.0%
2027		0.0%



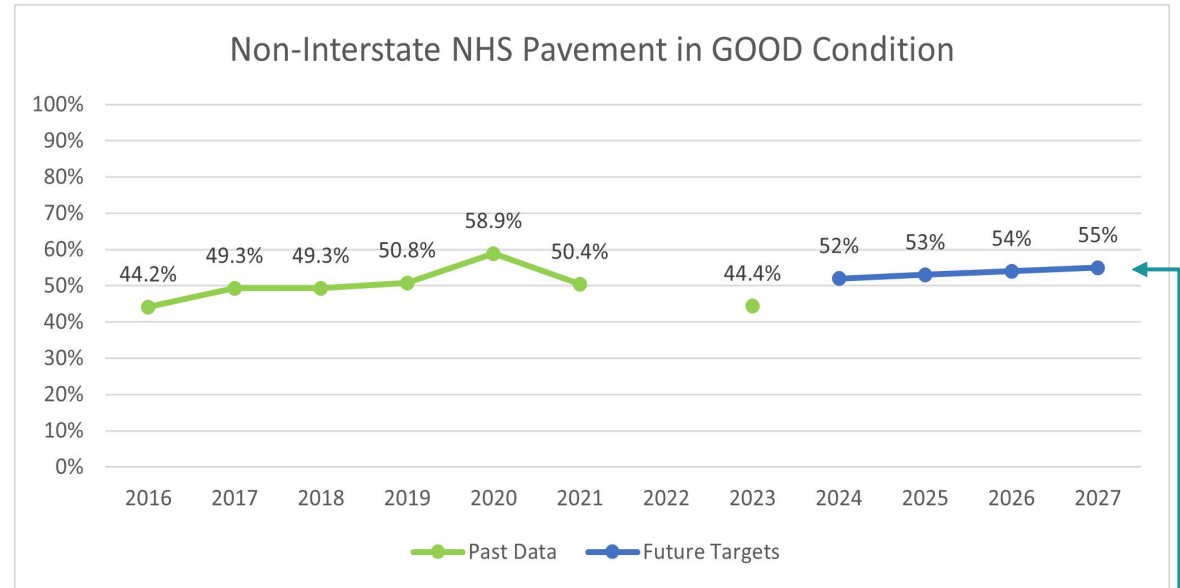


TARGET 3: % OF NON-INTERSTATE NHS PAVEMENTS IN GOOD CONDITION

Year	% in Good Condition	Target
2016	44.2%	
2017	49.3%	
2018	49.3%	
2019	50.8%	
2020	58.9%	
2021	50.4%	55%
2022		-
2023	44.4%	51%
2024		52%
2025		53%
2026		54%
2027		55%



Off Target



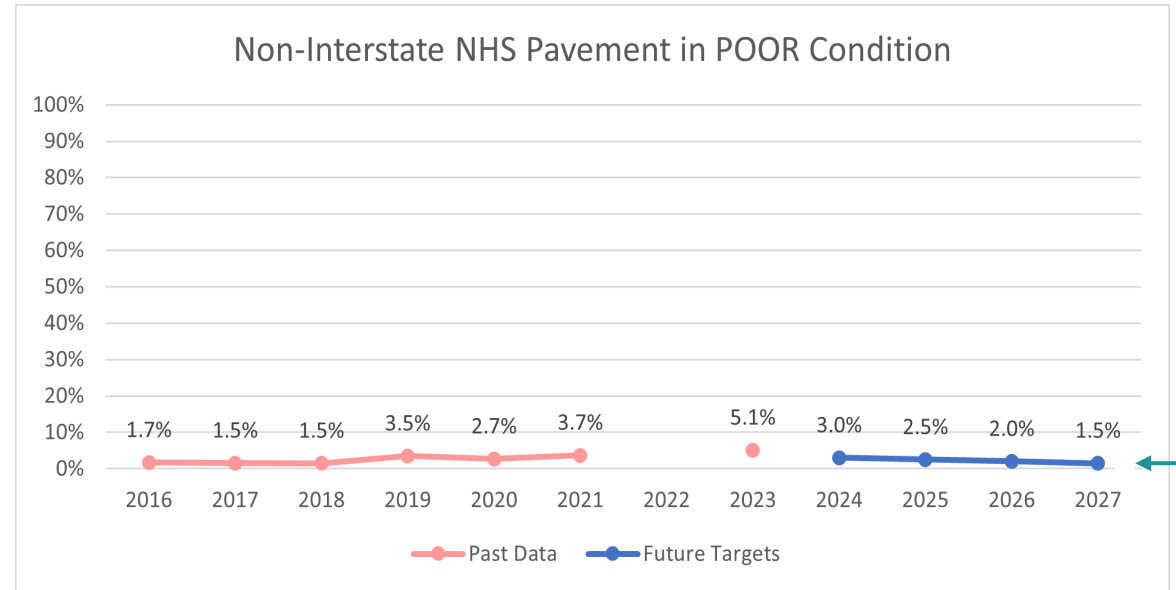


TARGET 4: % OF NON-INTERSTATE NHS PAVEMENTS IN POOR CONDITION

Year	% in Poor Condition	Target
2016	1.7%	
2017	1.5%	
2018	1.5%	
2019	3.5%	
2020	2.7%	
2021	3.7%	2%
2022		-
2023	5.1%	3.5%
2024		3.0%
2025		2.5%
2026		2.0%
2027		1.5%

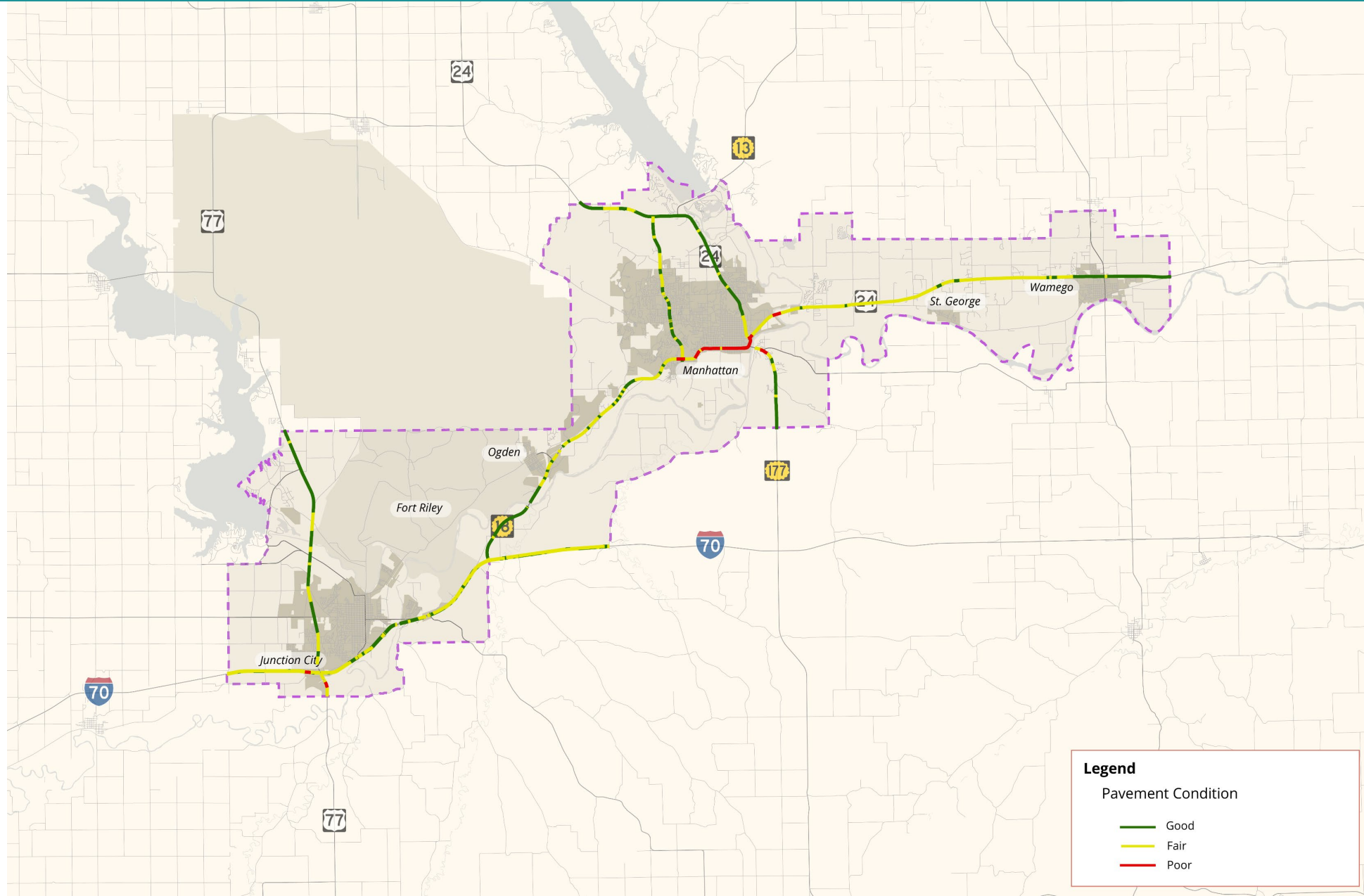


Off Target





PAVEMENT CONDITIONS: ALL NHS ROADWAYS





BACKGROUND ON BRIDGE CONDITIONS

- The Federal government (FHWA) is moving towards utilizing a new metric to evaluate bridges. This metric includes the deck, superstructure, and substructure. The rating is then weighted based on the deck area.

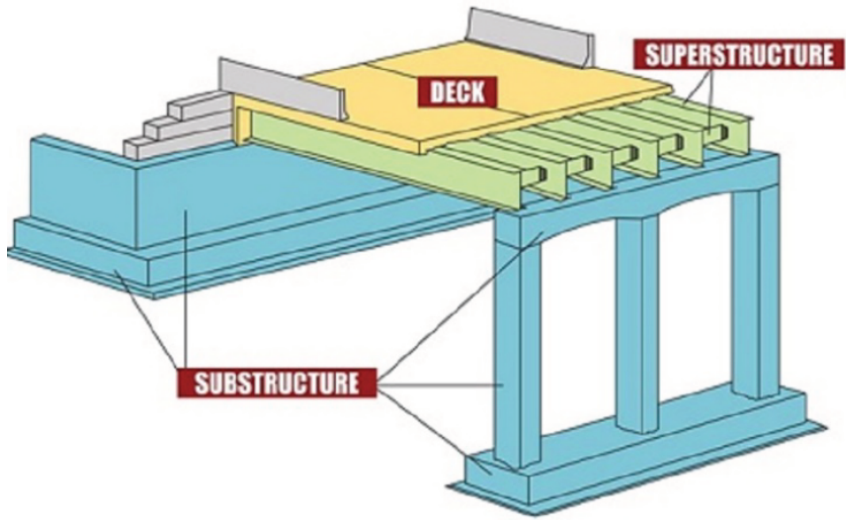


Bridge deck area is the percent of deck area classified as good and poor, using National Bridge Inventory (NBI) condition ratings for Deck, Superstructure, Substructure, and Culvert. Condition is determined by the lowest rating of these items. If the lowest rating is greater than or equal to 7, the bridge is classified as good; if it is less than or equal to 4, the bridge is classified as poor. Deck area is computed using NBI Structure Length and Deck Width or Approach Roadway Width (for some culverts). (Bridges rated below 7 but above 4 will be classified as fair.) See the figures below to view bridge components and the bridge condition thresholds for good, fair, and poor. Data provided by the Kansas Department of Transportation (KDOT).



§ 490.409 Metric Thresholds

NBI Rating Scale <i>(from 0-9)</i>	9	8	7	6	5	4	3	2	1	0
	Good			Fair		Poor				
Deck <i>(Item 58)</i>	≥ 7			5 or 6		≤ 4				
Superstructure <i>(Item 59)</i>	≥ 7			5 or 6		≤ 4				
Substructure <i>(Item 60)</i>	≥ 7			5 or 6		≤ 4				
Culvert <i>(Item 62)</i>	≥ 7			5 or 6		≤ 4				



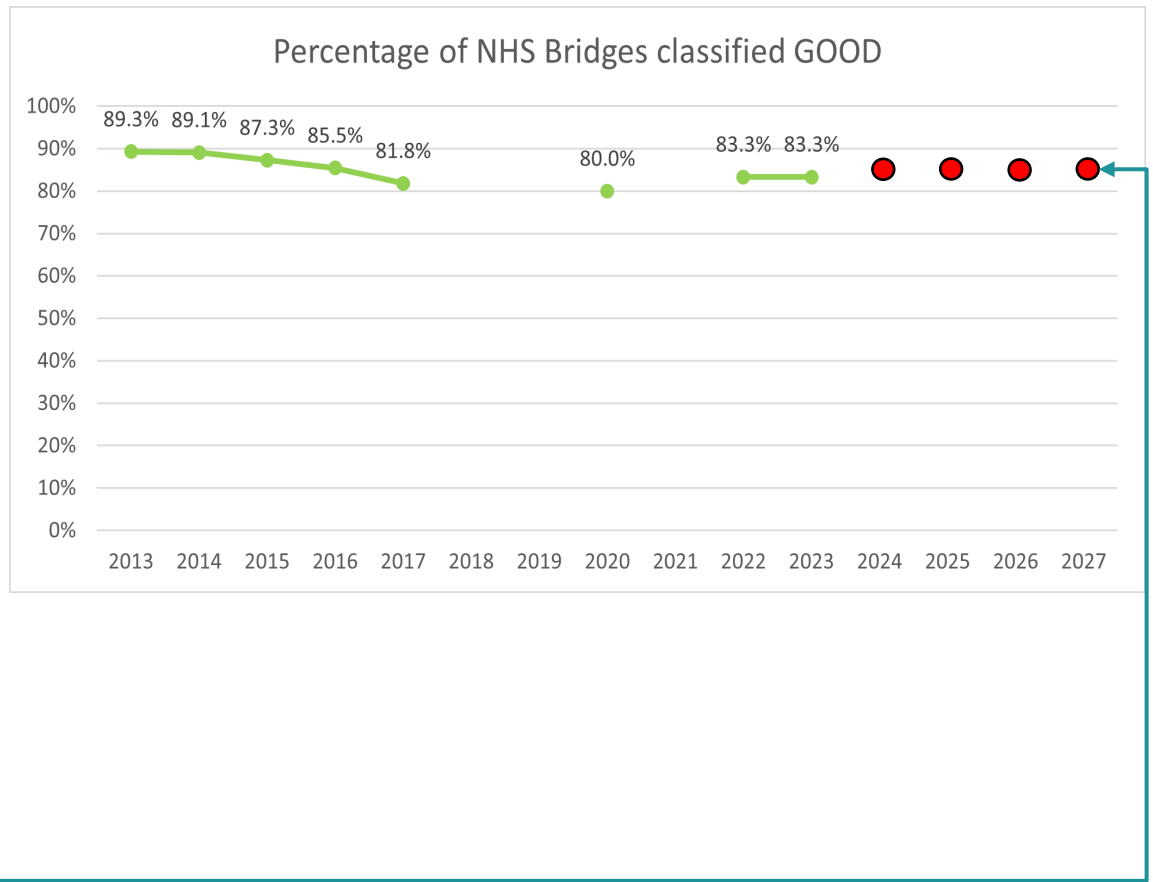


TARGET 5: % OF NHS BRIDGES BY DECK AREA CLASSIFIED AS IN GOOD CONDITION

All current

Year	% in Good Condition	Target
2017	81.8%	
2019	-	
2020	80.0%	
2021	-	70
2022	83.3%	-
2023	83.3%	85%
2024		85%
2025		85%
2026		85%
2027		85%

X
Off Target

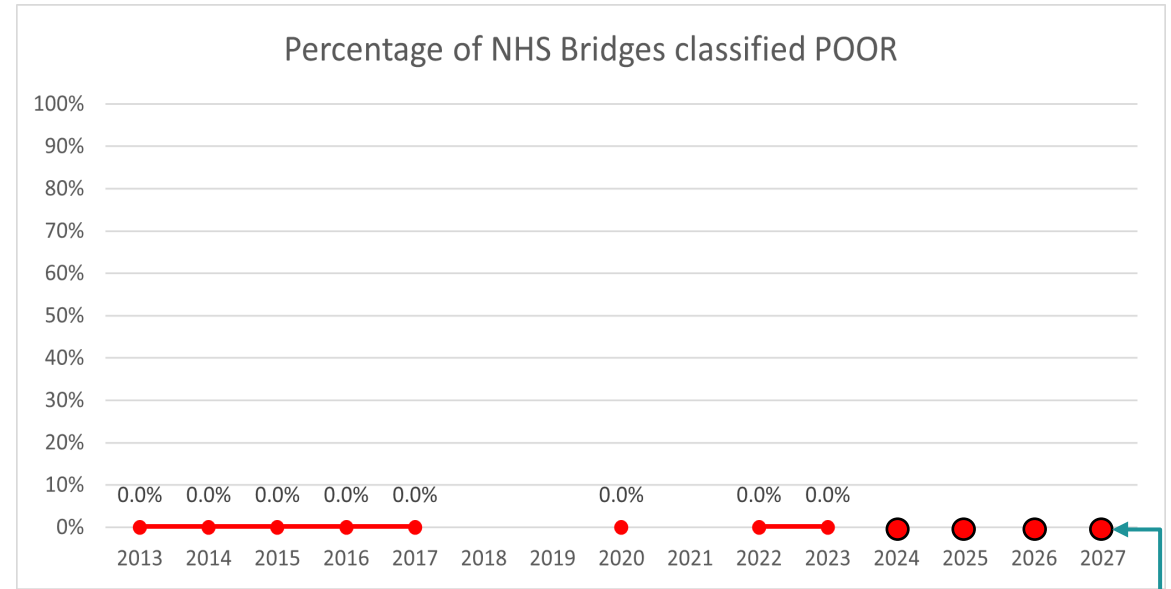




TARGET 6: % OF NHS BRIDGES BY DECK AREA CLASSIFIED AS IN POOR CONDITION

All current

Year	% in Poor Condition	Target
2017	0.0%	
2019	-	
2020	0.0%	
2021	-	0
2022	0.0%	-
2023	0.0%	0%
2024		0%
2025		0%
2026		0%
2027		0%





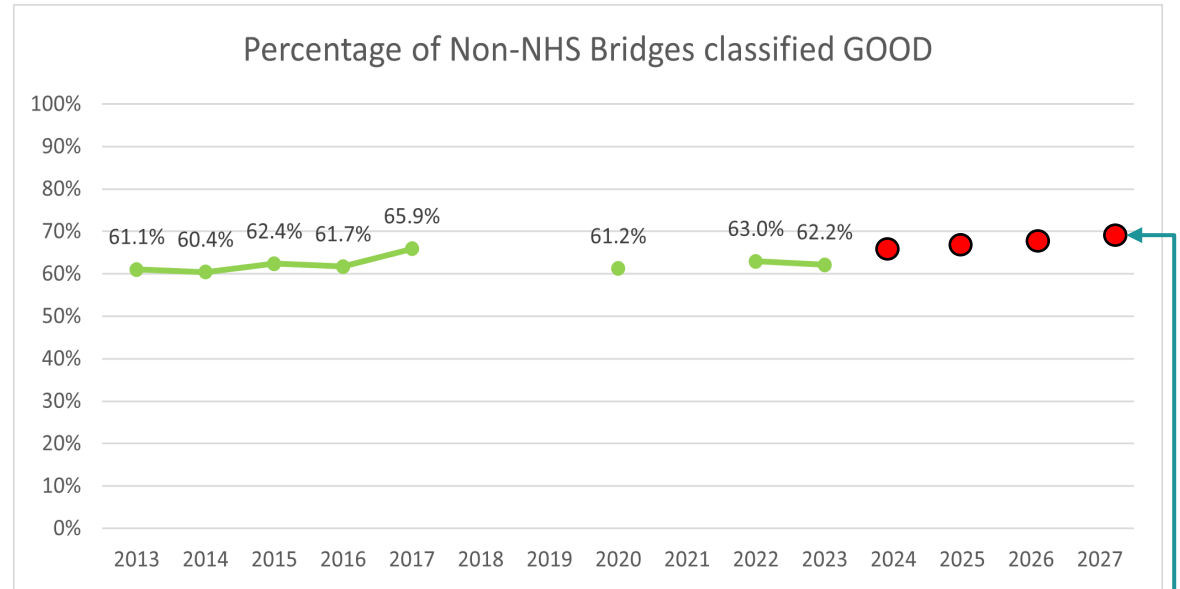
TARGET 7: % OF NON-NHS BRIDGES BY DECK AREA CLASSIFIED AS IN GOOD CONDITION

All current

Year	% in Good Condition	Target
2017	65.9%	
2019	-	
2020	61.2%	
2021	-	69
2022	63.0%	-
2023	62.2%	65%
2024		66%
2025		67%
2026		68%
2027		69%



Off Target





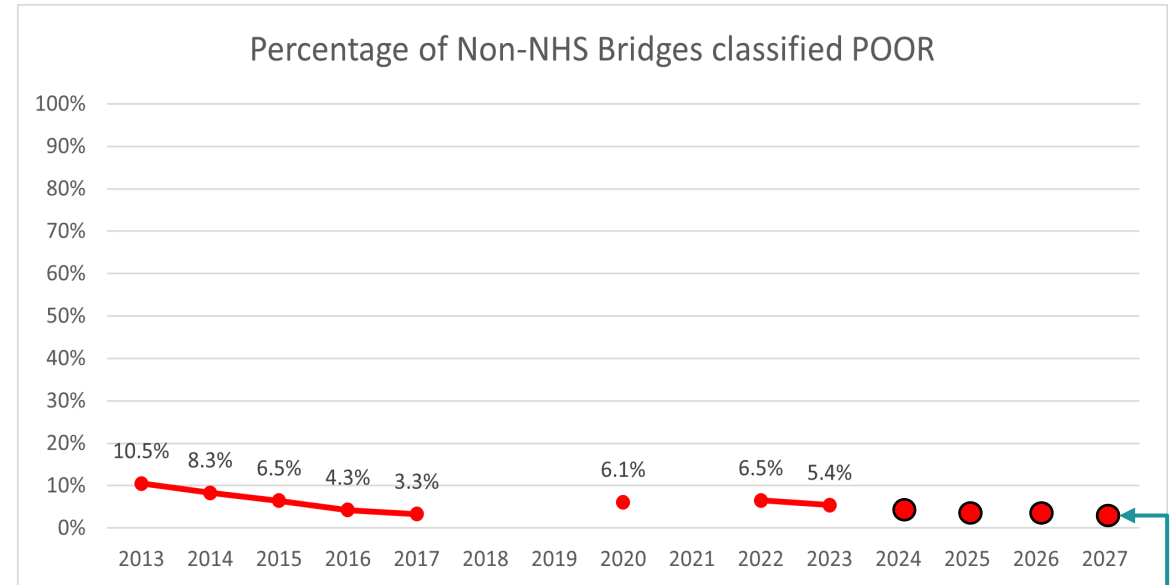
TARGET 8: % OF NON-NHS BRIDGES BY DECK AREA CLASSIFIED AS IN POOR CONDITION

All current

Year	% in Poor Condition	Target
2017	3.3%	
2019	-	
2020	6.1%	
2021	-	3
2022	6.5%	-
2023	5.4%	6%
2024		6%
2025		5%
2026		5%
2027		4%



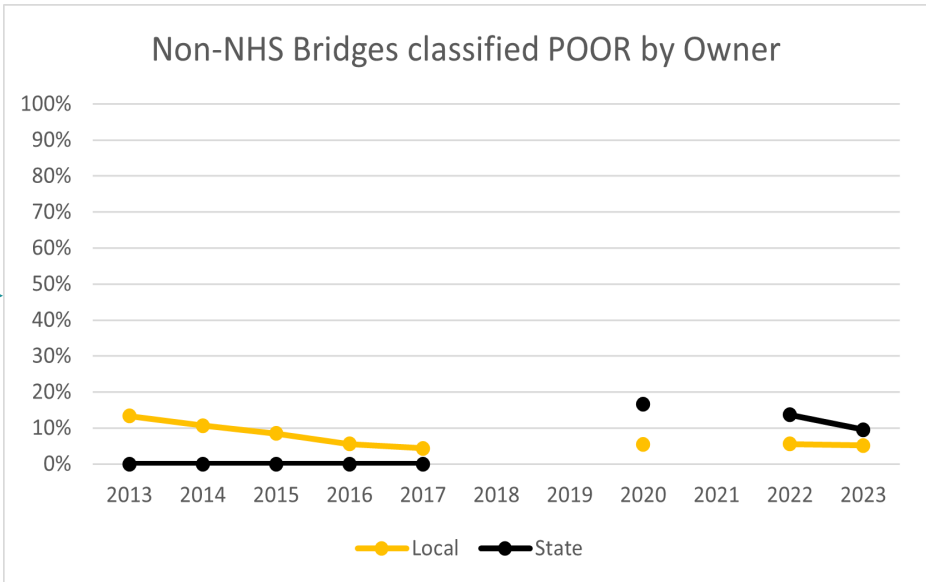
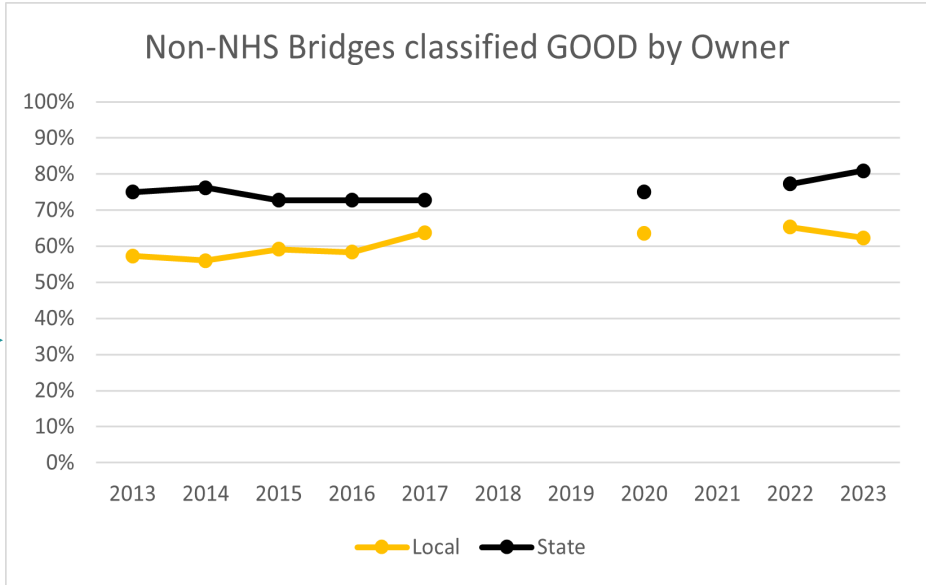
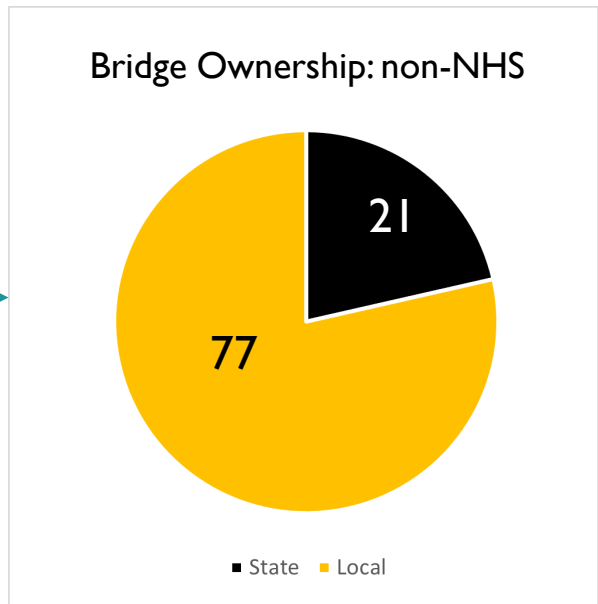
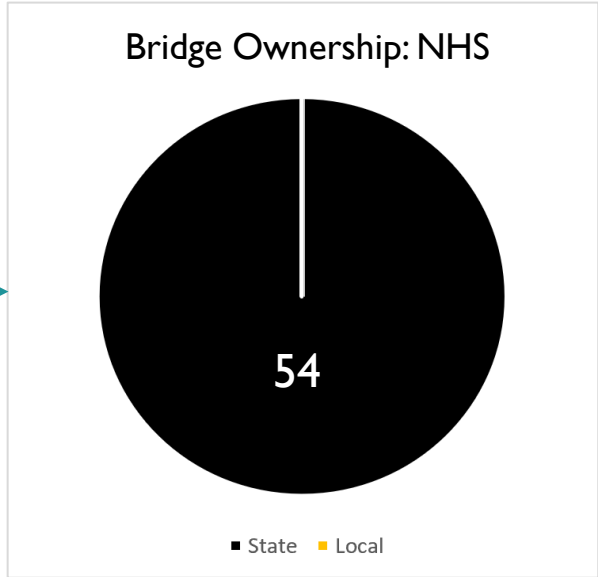
On Target





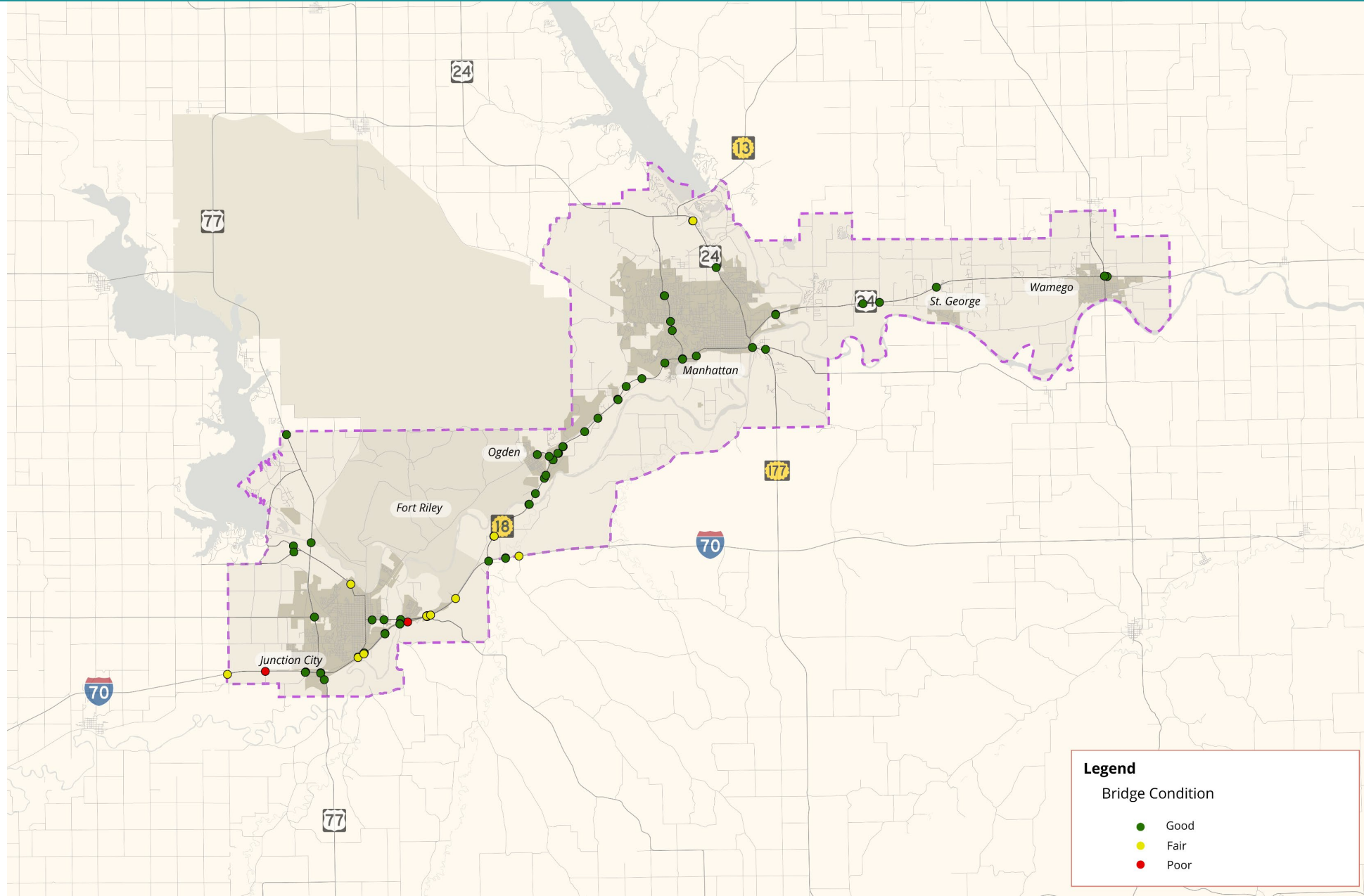
BRIDGES CONDITION DETAILS

MPO Region:
152
Bridges





BRIDGE DETAILS: KDOT BRIDGES





BRIDGE DETAILS: LOCAL AND OTHER BRIDGES

