



MEMORANDUM

TO: TPB Technical Committee
FROM: Eric Randall, TPB Transportation Engineer
Nicole McCall, COG Planner
SUBJECT: Update on Federal Performance-Based Planning and Programming - Pavement and Bridge Performance
DATE: March 31, 2017

This memorandum provides an update for the TPB Technical Committee on the region's pavement and bridge condition performance, a category of the federally-required performance-based planning and programming (PBPP) rules under the federal surface transportation act Moving Ahead for Progress in the 21st Century (MAP-21) and continued in the Fixing America's Surface Transportation Act (FAST Act).

PAVEMENT AND BRIDGE CONDITION FINAL RULE

The final rule for highway pavement condition and bridge condition was published on January 18, 2017.¹ The effective date of the rule has been postponed twice, the first time to March 21 and the second time to May 20, to provide more time for the new administration's officials to review new and pending regulations. In addition, FHWA has suspended the publication and distribution of further information about the rule, including previously planned webinars.

JURISDICTIONAL DATA

Staff applied the final rule to the region's latest pavement and bridge condition data for the region. The 2016 bridge data became available in January 2017 through the National Bridge Inventory (NBI) and 2015 pavement data became available in October 2016 through the Highway Performance Monitoring System (HPMS).

A one-page summary sheet was developed to report the pavement and bridge conditions. In addition to showing the required performance measures (good and poor condition), the summary sheet also provides background information such as lane-miles of Interstate and Non-Interstate NHS, the top 3 deficient bridges, and ownership of the Non-Interstate NHS. This information has been aggregated for the TPB planning area, but is also provided for Suburban Maryland and Northern Virginia and for each jurisdiction in the region. A file containing the summary sheets is attached with the synthesized data reported in the NBI and HPMS.

A map site for the pavement and bridge conditions has been developed:
https://gis.mwcog.org/webmaps/tpb/pbpp/pavement_bridge/

In addition to the map site, staff are updating the Regional Data Clearinghouse to provide data files and GIS layers for use by any interested party.

¹ <https://www.gpo.gov/fdsys/pkg/FR-2017-01-18/pdf/2017-00550.pdf>

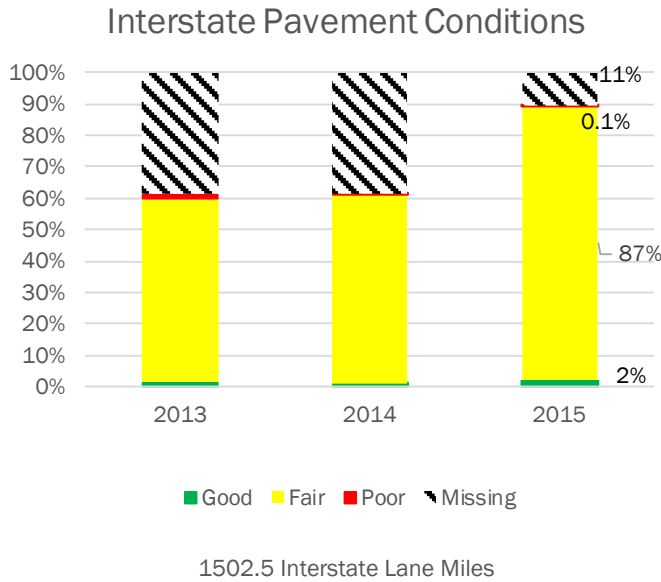
Performance Based Planning & Programming

TPB Planning Area

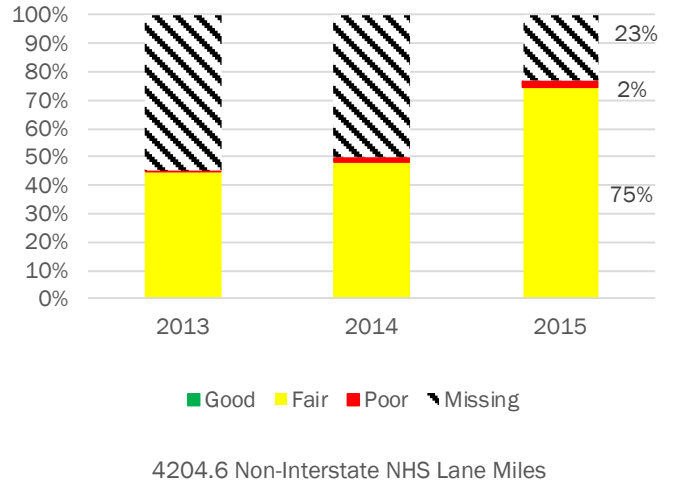
The Federal Highway Administration has established measures for state departments of transportation to use to assess the condition of pavements on the National Highway System (NHS), bridges carrying the NHS which includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)

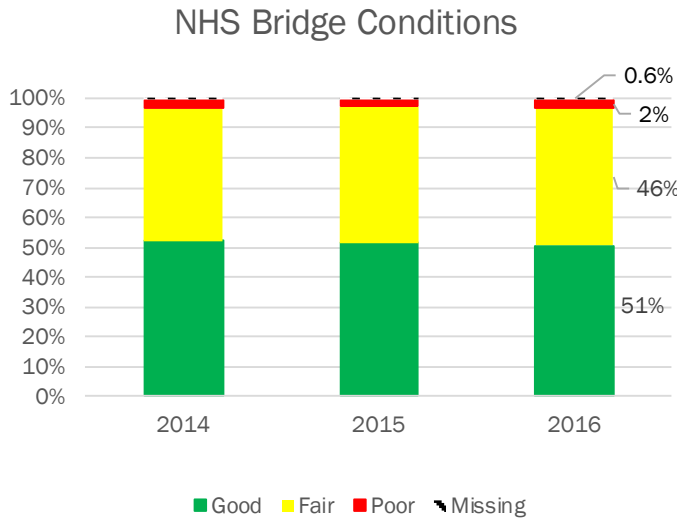


Non-Interstate NHS Pavement Conditions

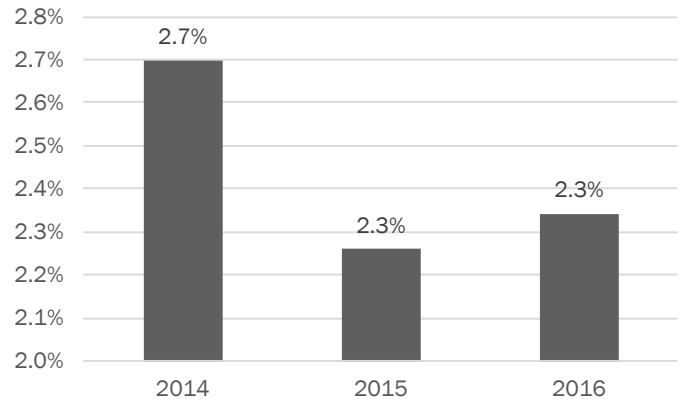


NHS Bridges (by square meters of deck area)

(Includes: 1044 Bridges and 222 Culverts; 27 Structurally Deficient)



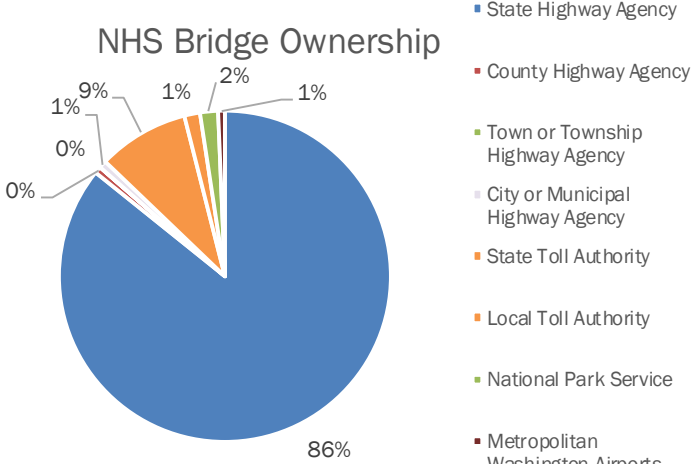
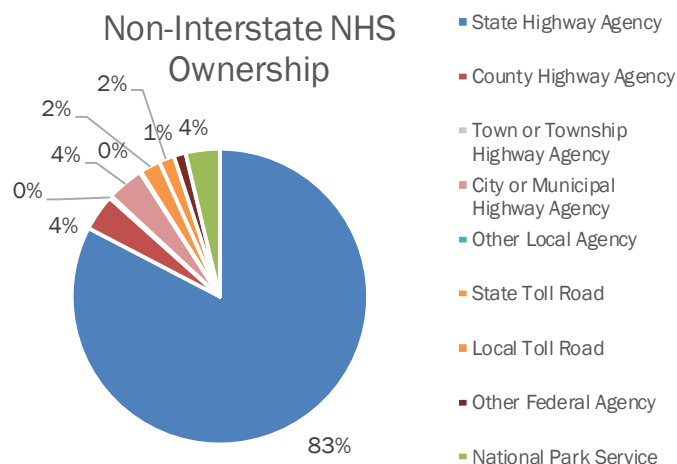
Structurally Deficient NHS Bridges



Largest Structurally Deficient Bridges (by deck area): Memorial Avenue at GWMP (WB) & Potomac River, Washington Blvd at RTE. 110 (Jeff Davis Hwy), King Street at Route I-395 Ramps C&G

Ownership

(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)



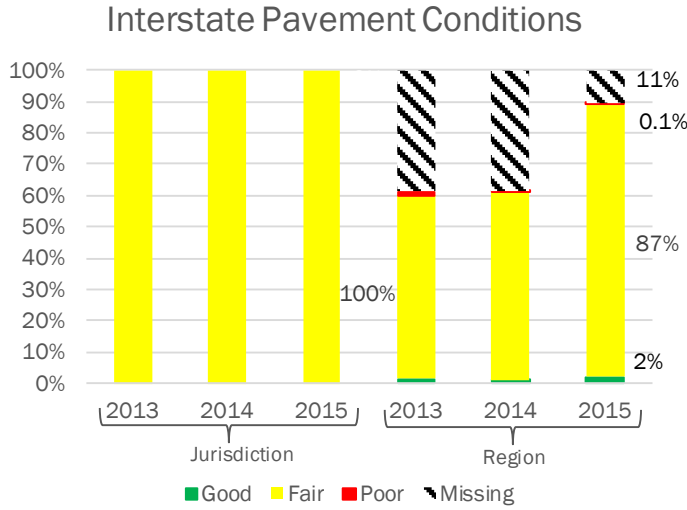
Performance Based Planning & Programming

District of Columbia

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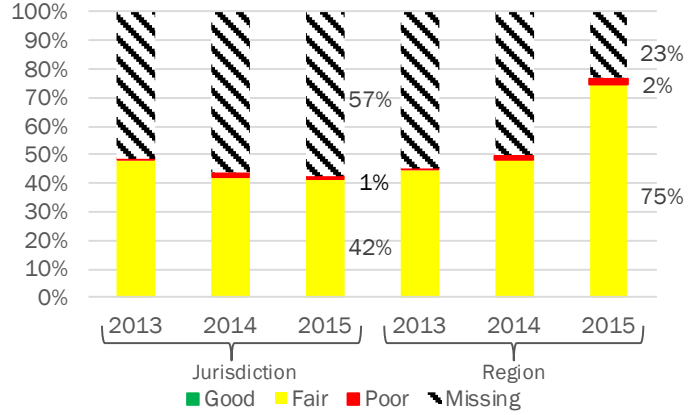
Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



46.3 Interstate Lane Miles

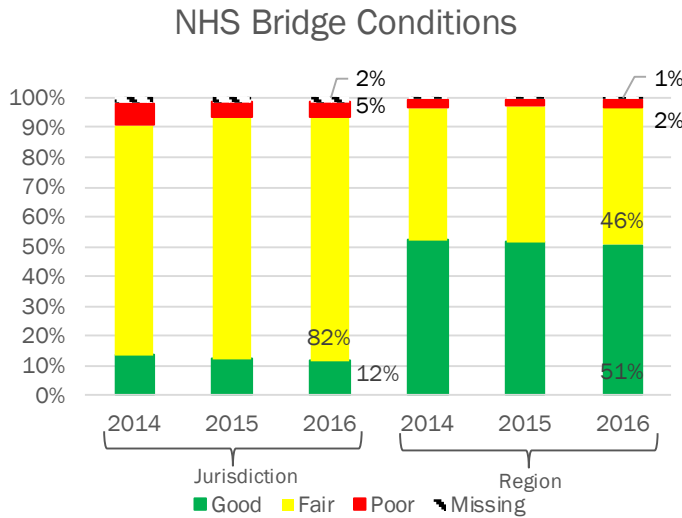
Non-Interstate NHS Pavement Conditions



473.8 Non-Interstate NHS Lane Miles

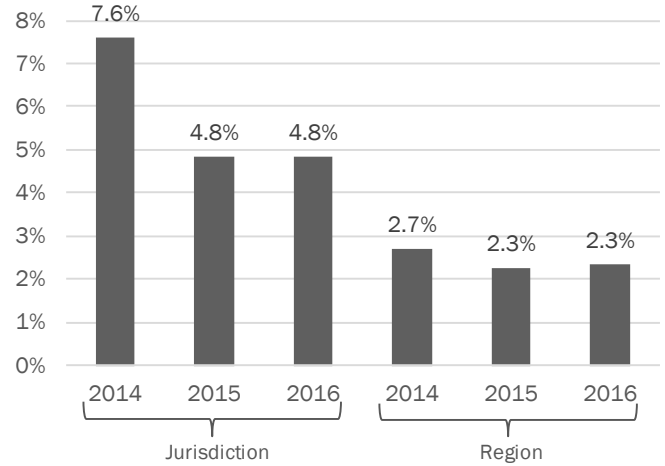
NHS Bridge Conditions (by square meters of deck area)

(Includes: 157 Bridges and 0 Culverts; 7 Structurally Deficient)



Largest Structurally Deficient Bridges (by deck area): Memorial Avenue at George Washington Memorial Parkway (WB) & Potomac River, Anacostia Freeway at Suitland Pkwy S.E., Anacostia Freeway at Nicholson Street

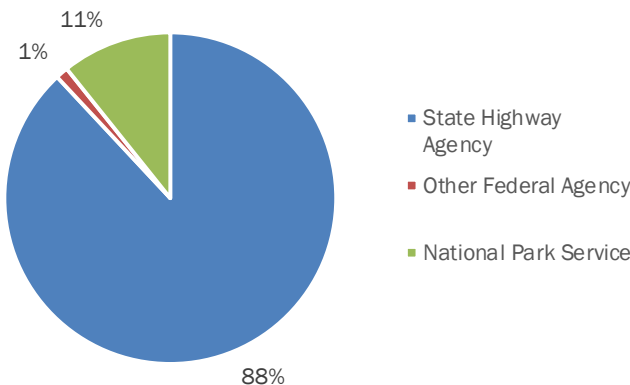
Structurally Deficient NHS Bridges



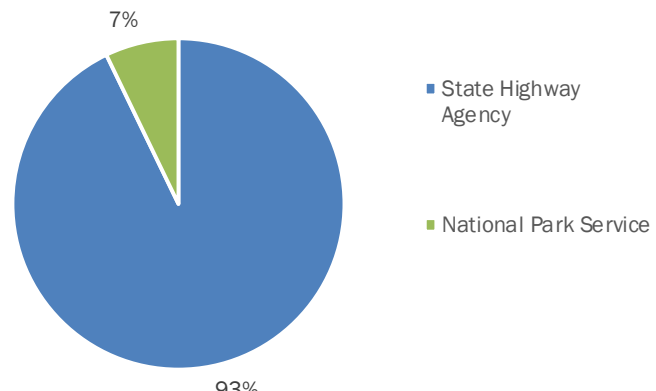
Ownership

(by lane mile or square meters of deck area; all interstate lane miles owned by the corresponding state highway agency)

Non-Interstate NHS Ownership



NHS Bridge Ownership



Total = 157; weighted by deck area

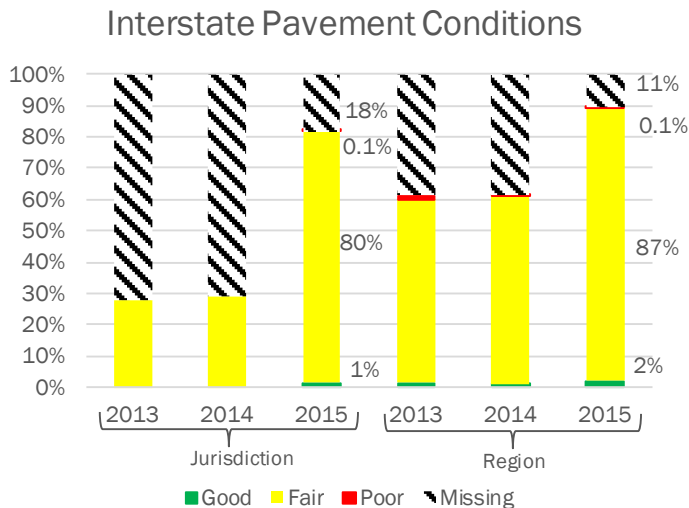
Performance Based Planning & Programming

Maryland

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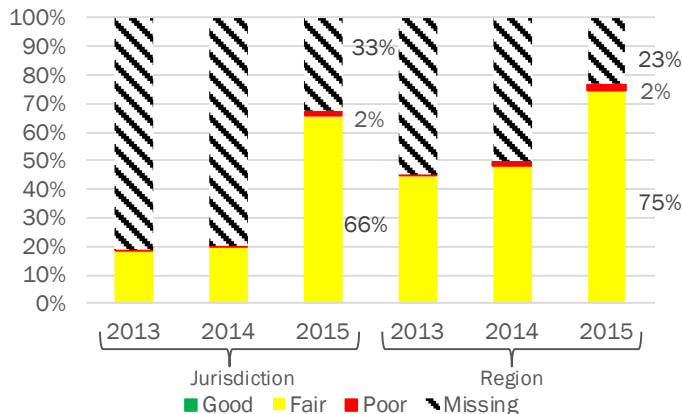
Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



853.8 Interstate Lane Miles

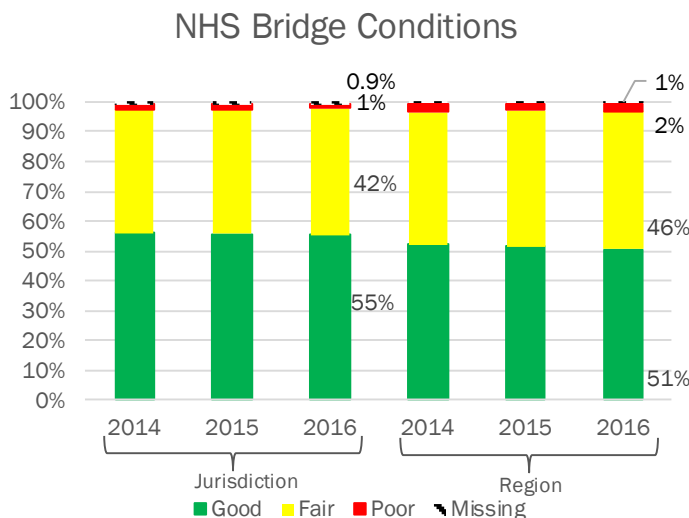
Non-Interstate NHS Pavement Conditions



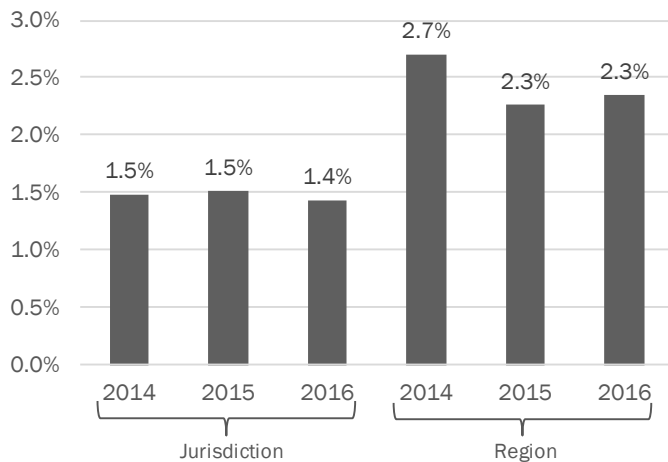
2367.2 Non-Interstate NHS Lane Miles

NHS Bridges (by square meters of deck area)

(Includes: 481 Bridges and 113 Culverts; 12 Structurally Deficient)



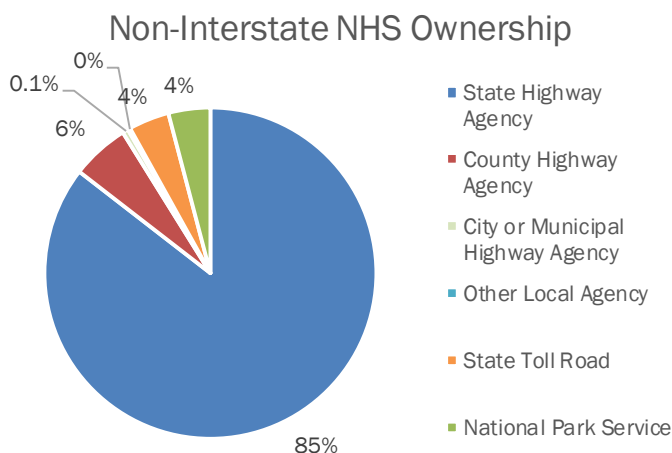
Structurally Deficient NHS Bridges



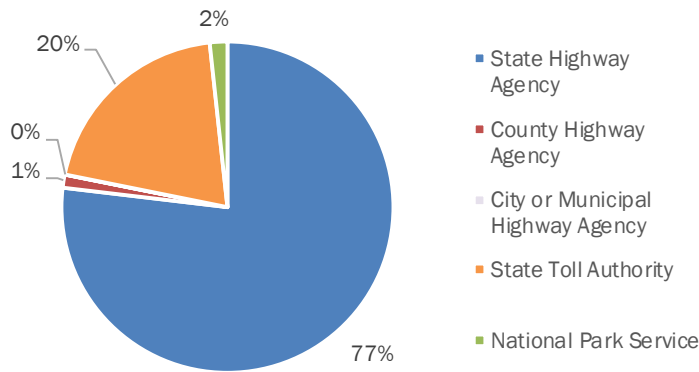
Largest Structurally Deficient Bridges (by deck area): I-95 IL at Suitland Parkway, I-95 OL at Suitland Parkway, I-95/495 at MD 414

Ownership

(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)



NHS Bridge Ownership



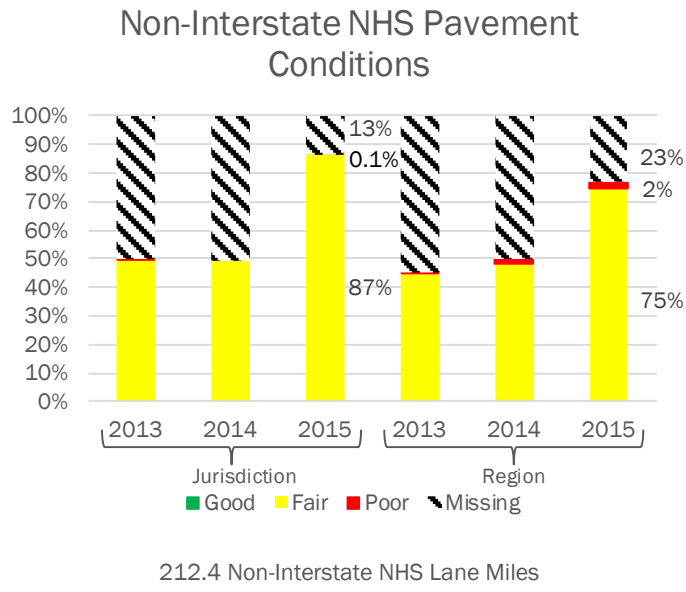
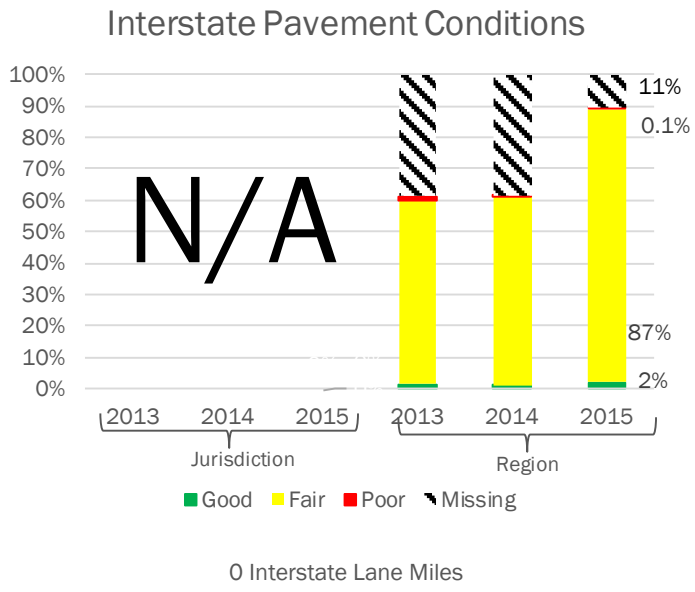
Total = 594; weighted by deck area

Performance Based Planning & Programming

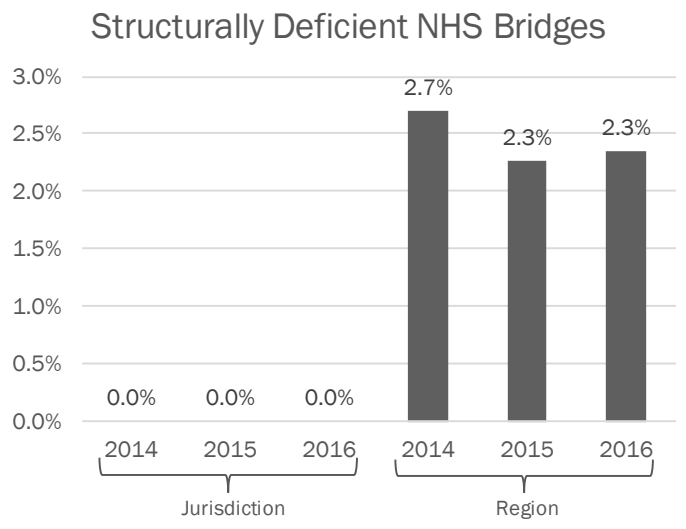
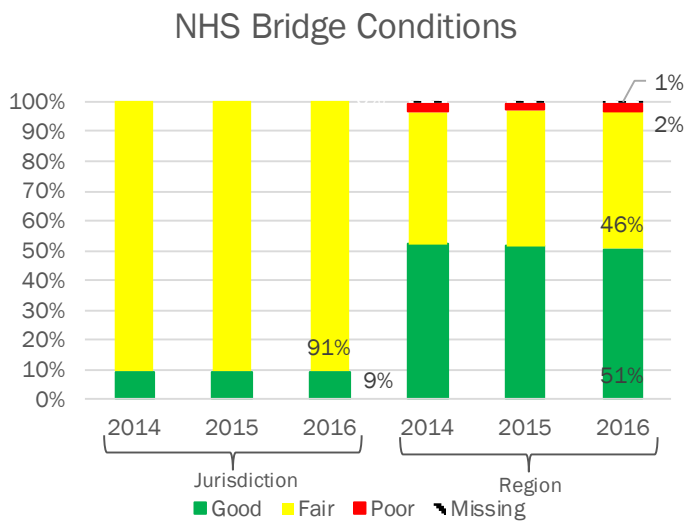
Charles County

The Federal Highway Administration has established measures for state departments of transportation to use to assess the condition of pavements on the National Highway System (NHS), bridges carrying the NHS which includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

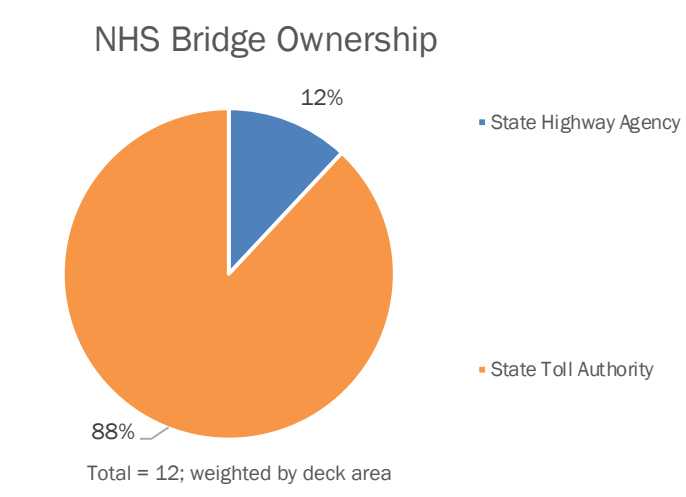
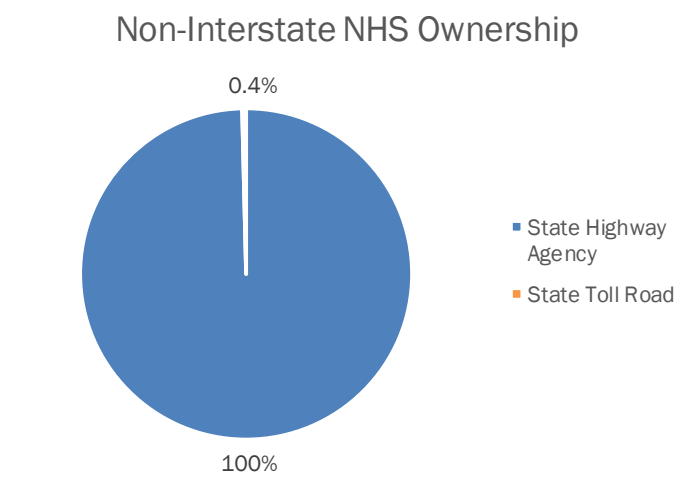
Pavement Conditions (by lane mile)
(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



NHS Bridges (by square meters of deck area)
(Includes: 9 Bridges and 3 Culverts; 0 Structurally Deficient)



Ownership
(by lane mile or square meters of deck area; all interstate lane miles owned by the corresponding state highway agency)



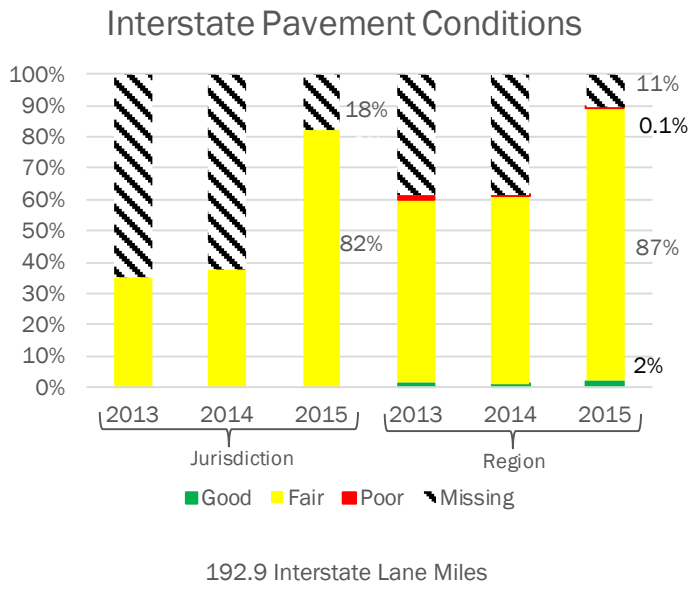
Performance Based Planning & Programming

Frederick County

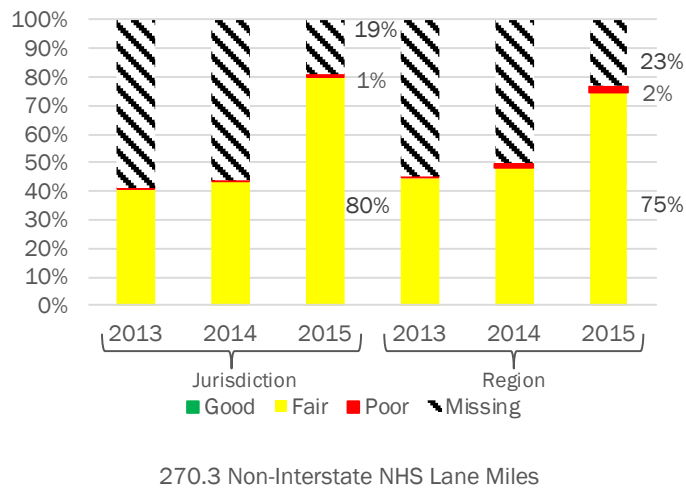
The Federal Highway Administration has established measures for state departments of transportation to use to assess the condition of pavements on the National Highway System (NHS), bridges carrying the NHS which includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)

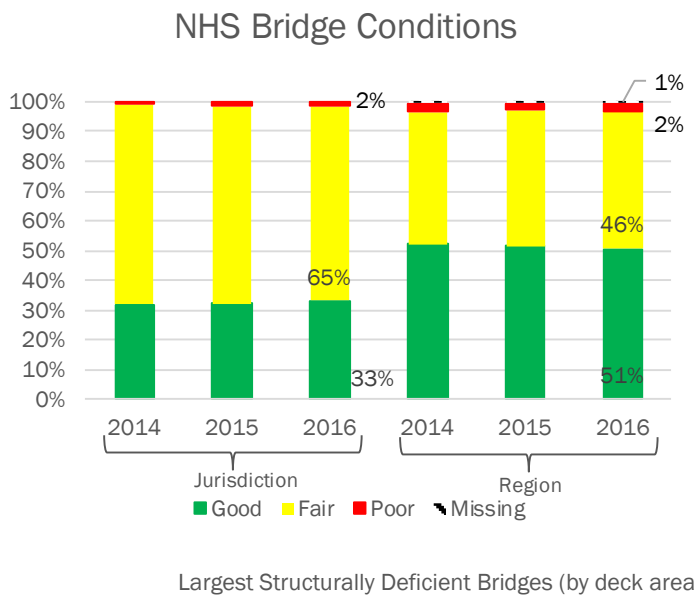


Non-Interstate NHS Pavement Conditions

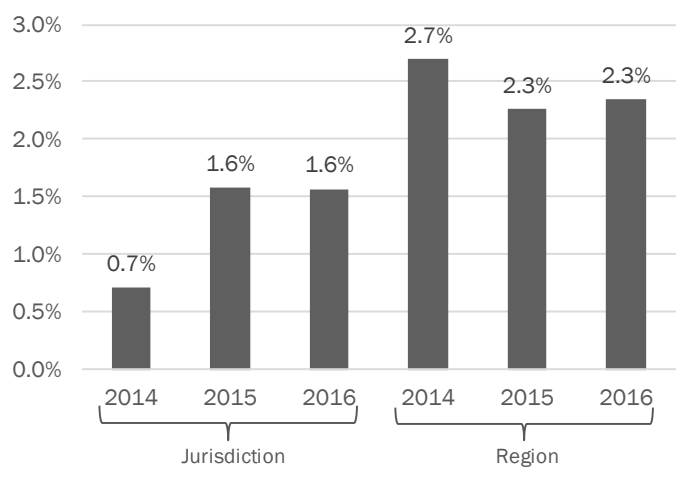


NHS Bridge Conditions (by square meters of deck area)

(Includes: 99 Bridges and 10 Culverts; 4 Structurally Deficient)



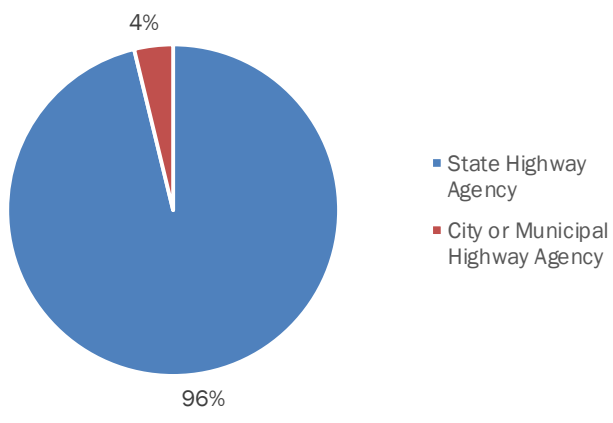
Structurally Deficient NHS Bridges



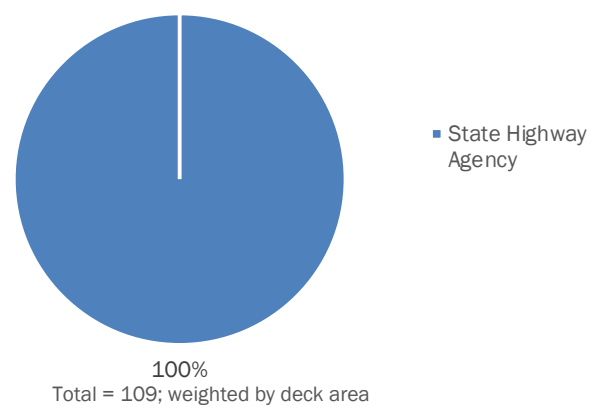
Ownership

(by lane mile or square meters of deck area; all interstate lane miles owned by the corresponding state highway agency)

Non-Interstate NHS Ownership



NHS Bridge Ownership

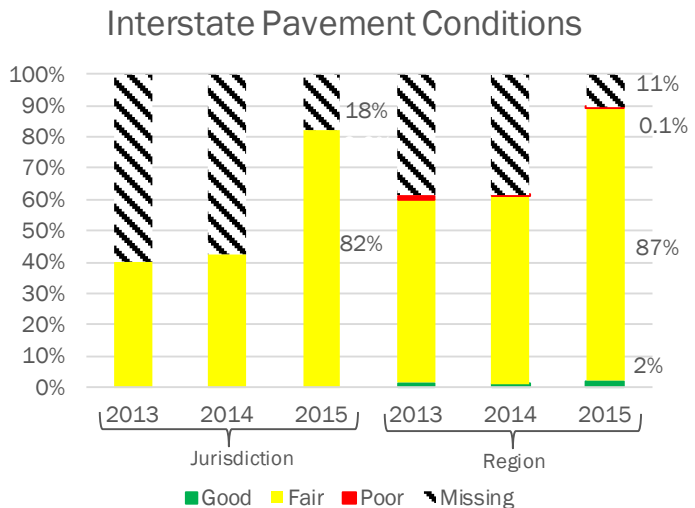


Montgomery County

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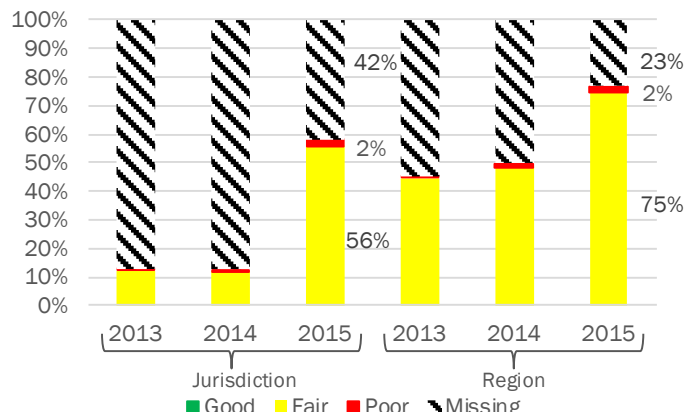
Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



307.1 Interstate Lane Miles

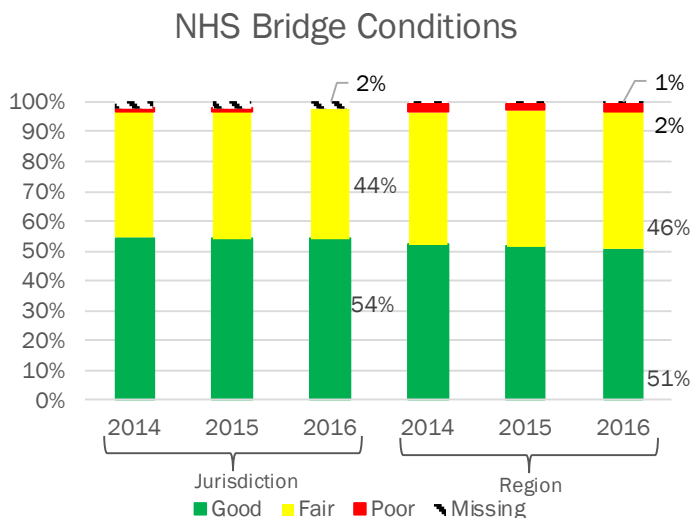
Non-Interstate NHS Pavement Conditions



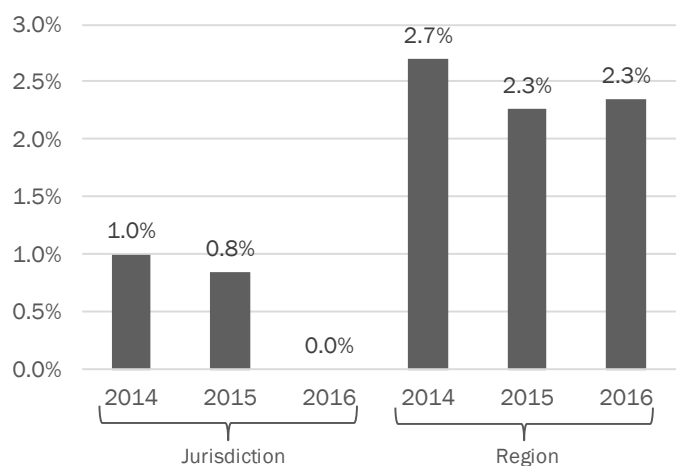
946.9 Non-Interstate NHS Lane Miles

NHS Bridge Conditions (by square meters of deck area)

(Includes: 160 Bridges and 33 Culverts; 0 Structurally Deficient)

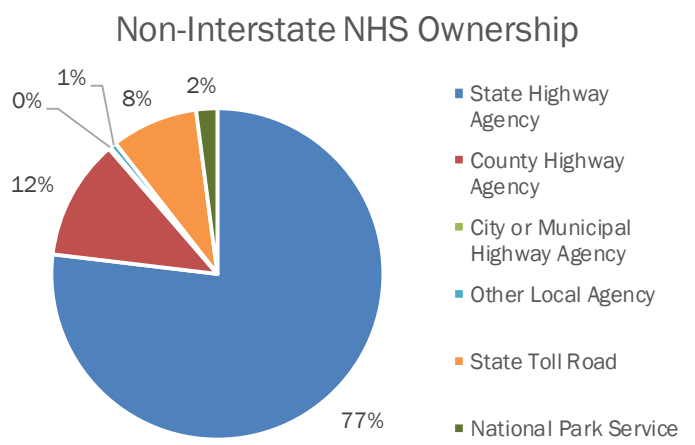


Structurally Deficient NHS Bridges

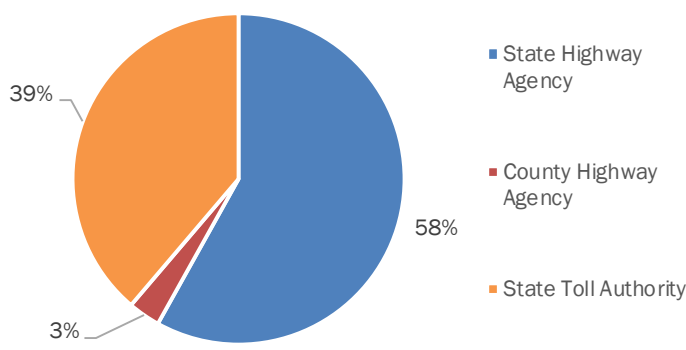


Ownership

(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)



NHS Bridge Ownership



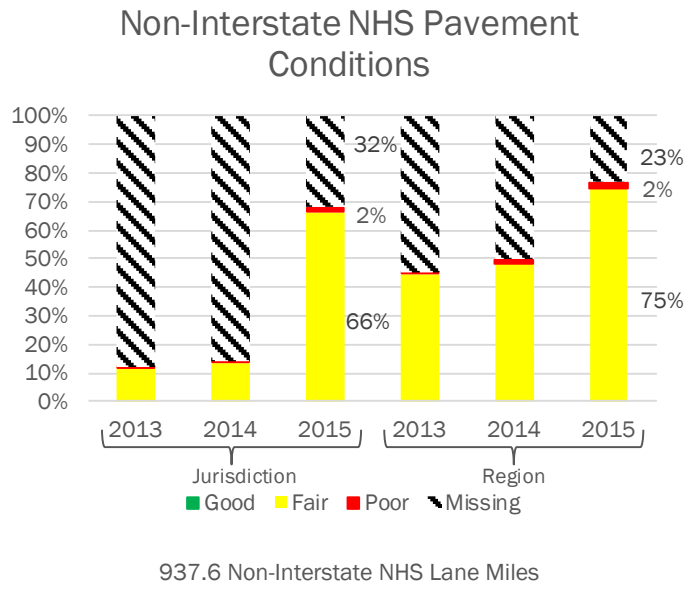
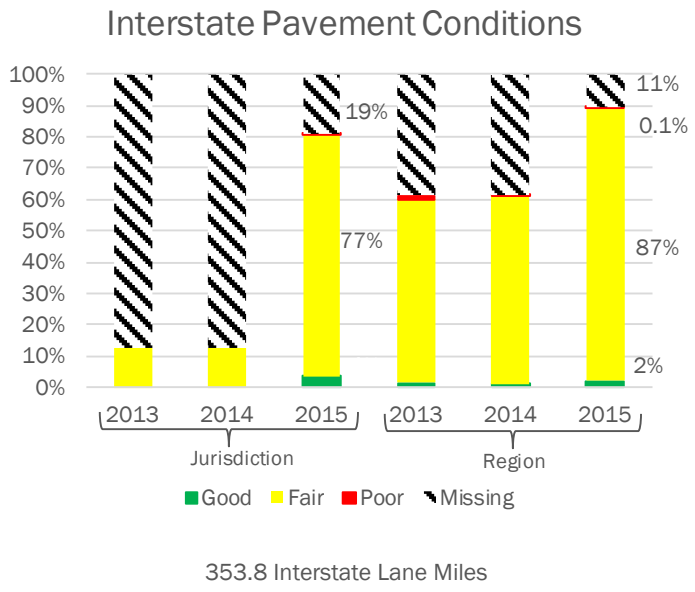
Total = 193; weighted by deck area

Prince George's County

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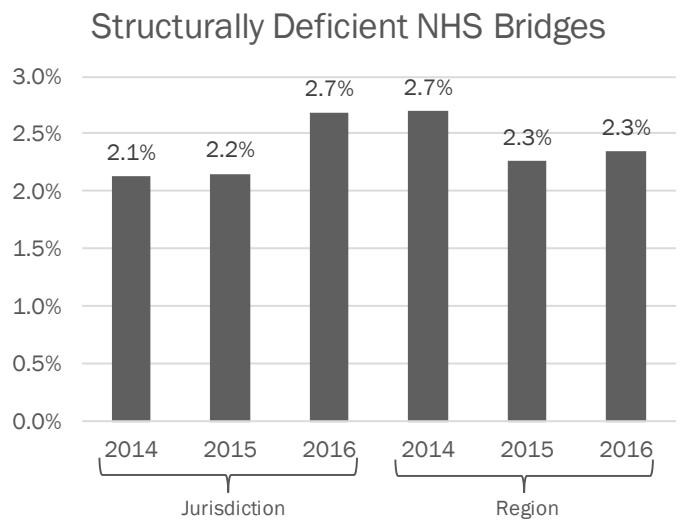
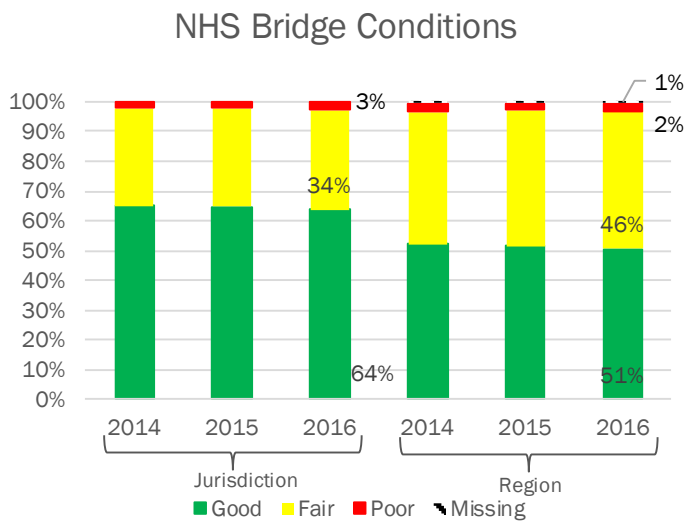
Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



NHS Bridges (by square meters of deck area)

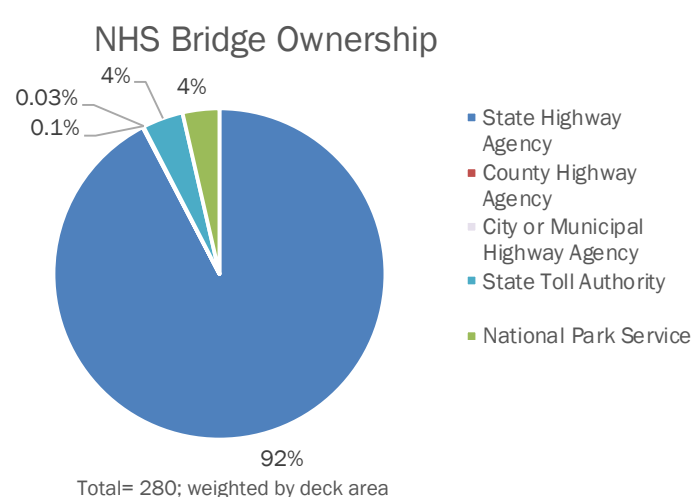
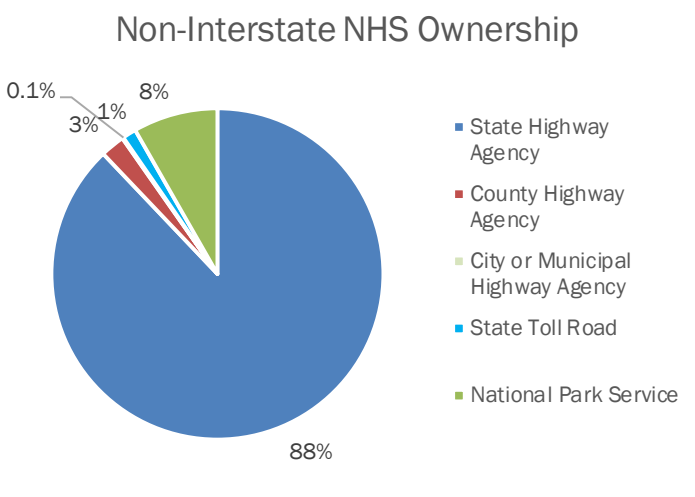
(Includes: 213 Bridges and 67 Culverts; 8 Structurally Deficient)



Largest Structurally Deficient Bridges (by deck area): IS 95 IL at Suitland Parkway, IS 95 OL At Suitland Parkway, IS 95/495 at MD 414

Ownership

(by lane mile or square meters of deck area; all interstate lane miles owned by the corresponding state highway agency)



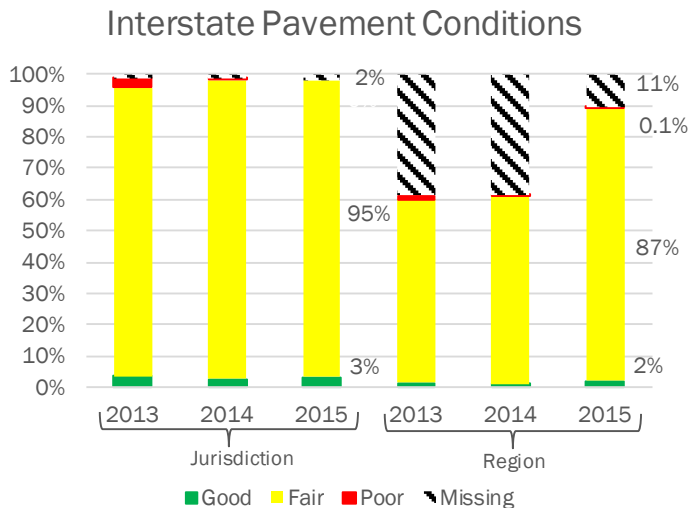
Performance Based Planning & Programming

Virginia

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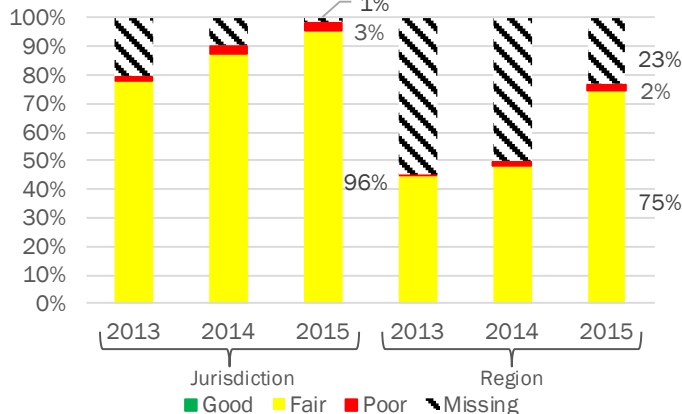
Pavement Conditions

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



648.7 Interstate Lane Miles

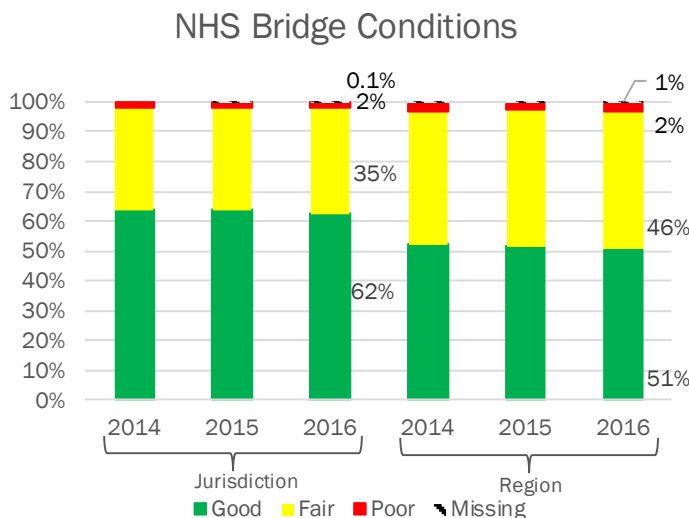
Non-Interstate NHS Pavement Conditions



1837.4 Non-Interstate NHS Lane Miles

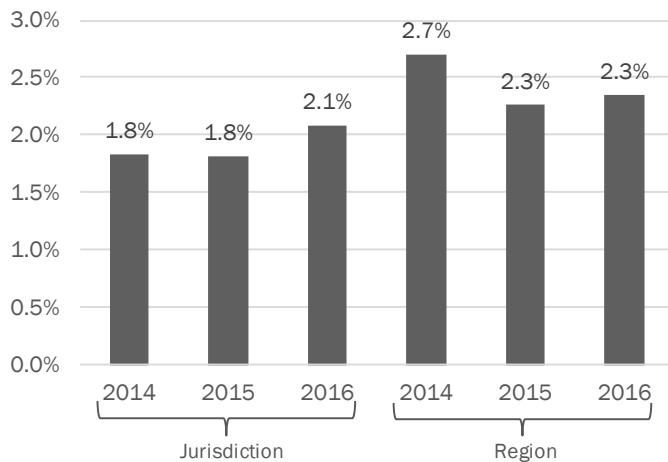
NHS Bridges (by square meters of deck area)

(Includes: 563 Bridges and 109 Culverts; 15 Structurally Deficient)



Largest Structurally Deficient Bridges (by deck area): WASHINGTON BLVD. at RTE. 110 (Jeff Davis Hwy), King Street at I-395 Ramps C&G, Duke Street at I-395

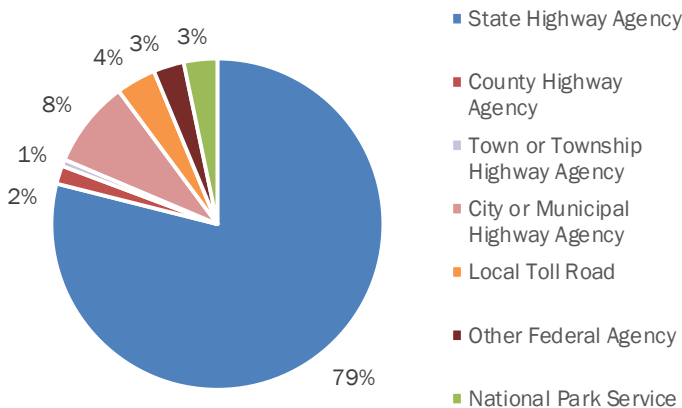
Structurally Deficient NHS Bridges



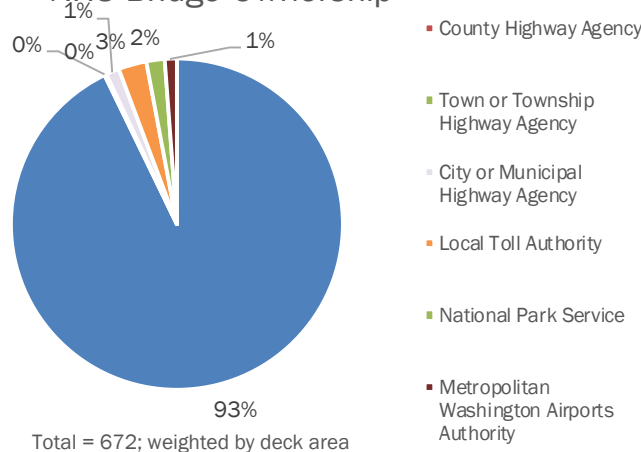
Ownership

(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)

Non-Interstate NHS Ownership



NHS Bridge Ownership

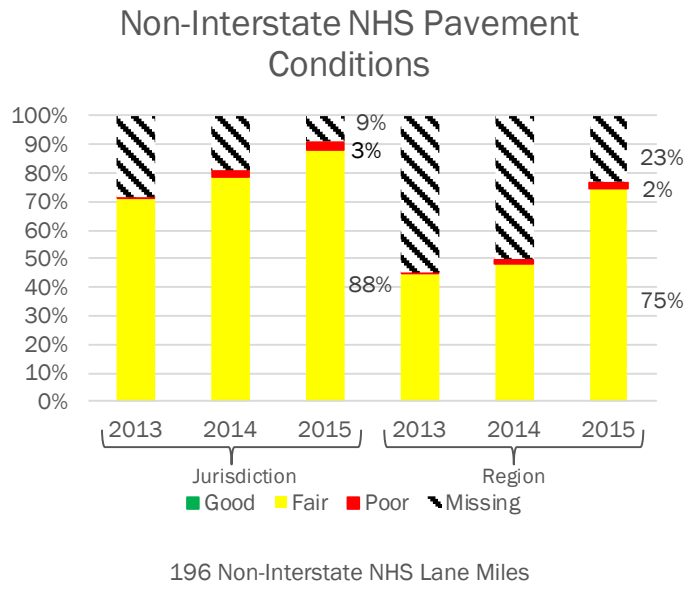
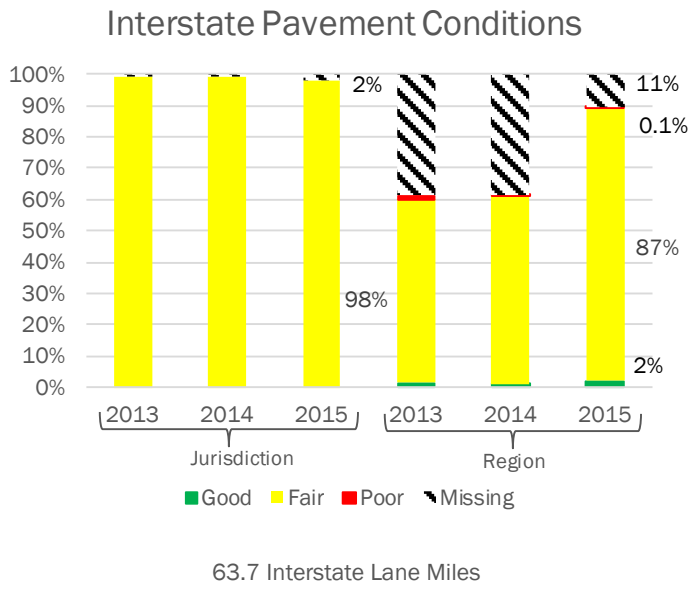


Performance Based Planning & Programming

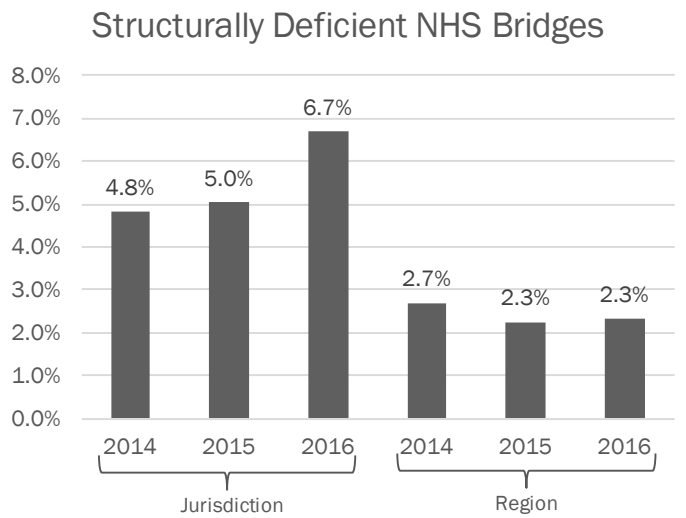
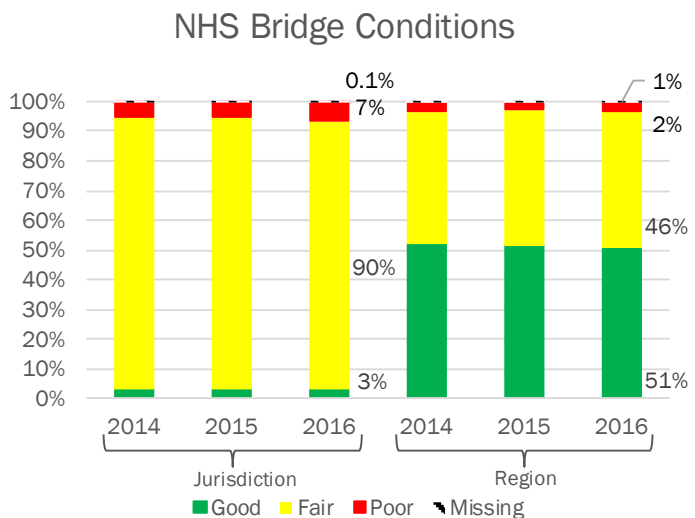
Arlington County

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Pavement Conditions (by lane mile)
(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)

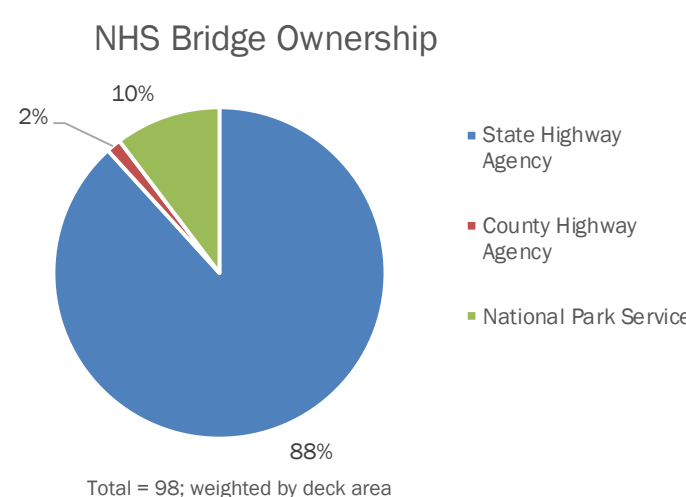
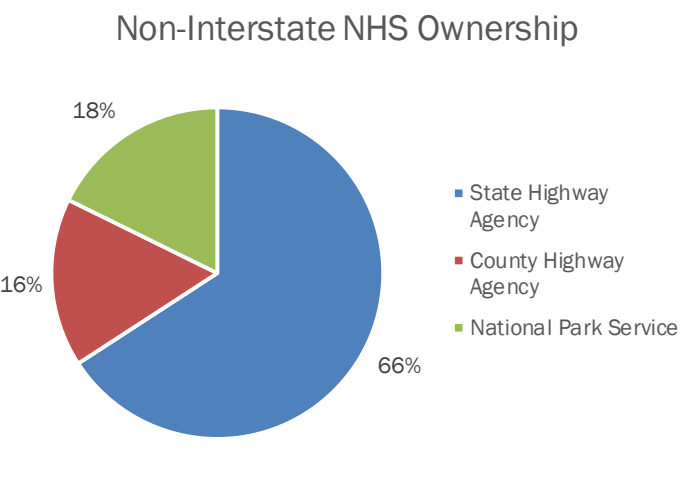


NHS Bridges (by square meters of deck area)
(Includes: 94 Bridges and 4 Culverts; 4 Structurally Deficient)



Largest Structurally Deficient Bridges (by deck area): Washington Blvd. at Rte. 110 (Jeff Davis Hwy), George Washington Memorial Pky at Windy Run, Custis Memorial Hwy. At Ramps B & F

Ownership
(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)



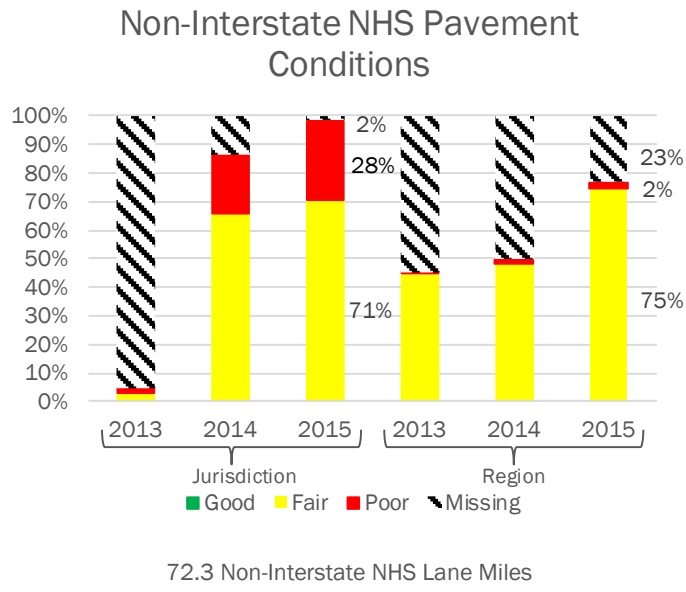
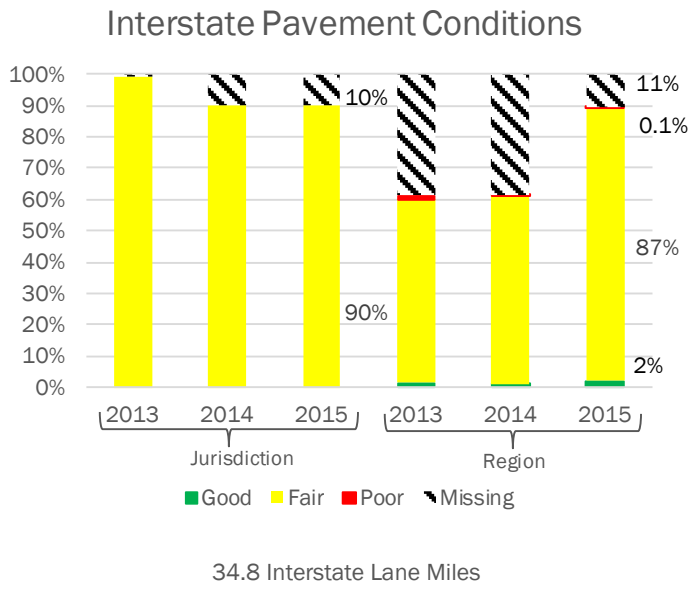
Performance Based Planning & Programming

City of Alexandria

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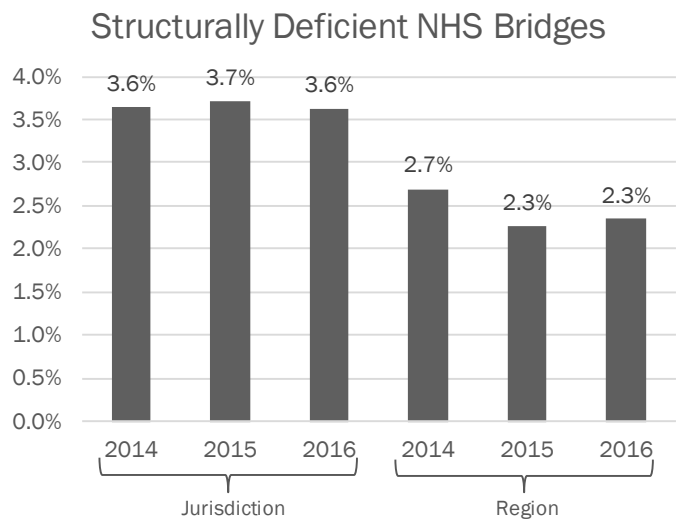
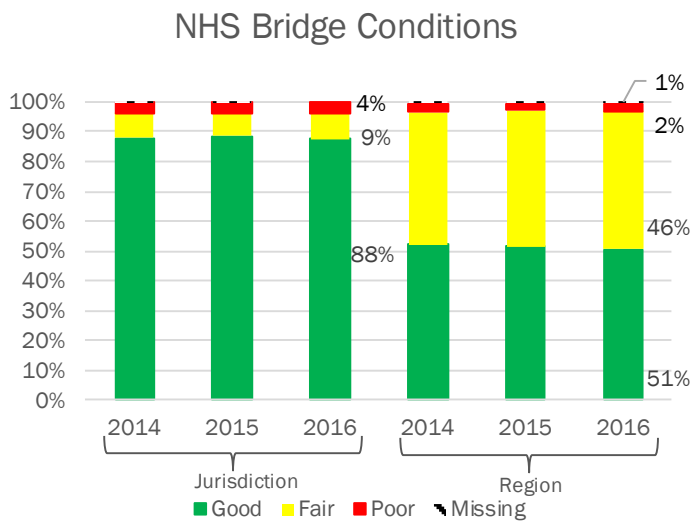
Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



NHS Bridges (by square meters of deck area)

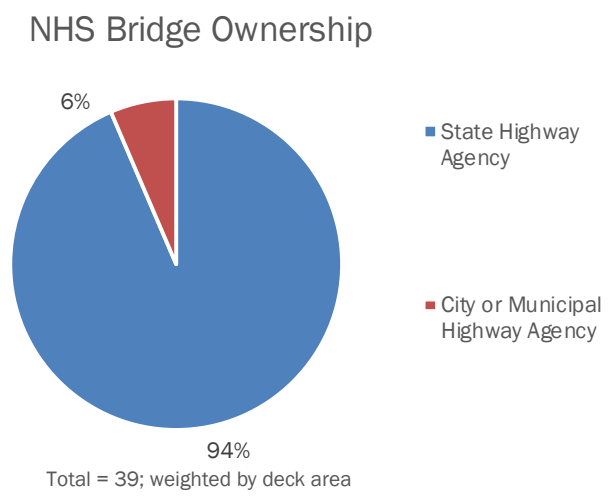
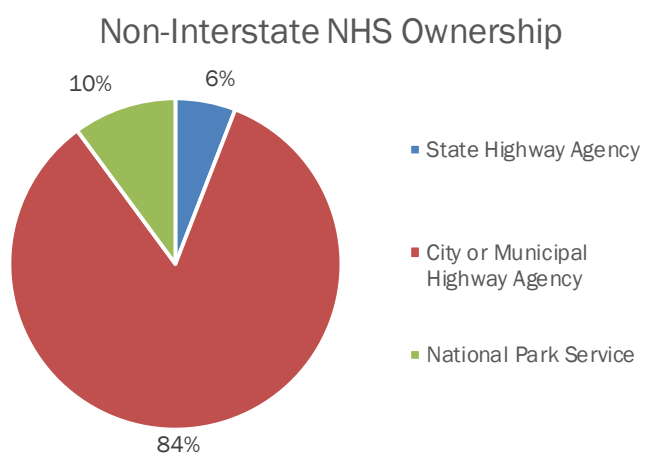
(Includes: 37 Bridges and 2 Culverts; 3 Structurally Deficient)



Largest Structurally Deficient Bridges (by deck area): King Street at Route I-395 Ramps C&G, Duke Street at Route I-395, Nbl Route 0395 at Ramp F O Four Mile Run

Ownership

(by lane mile or square meters of deck area; all interstate lane miles owned by the corresponding state highway agency)

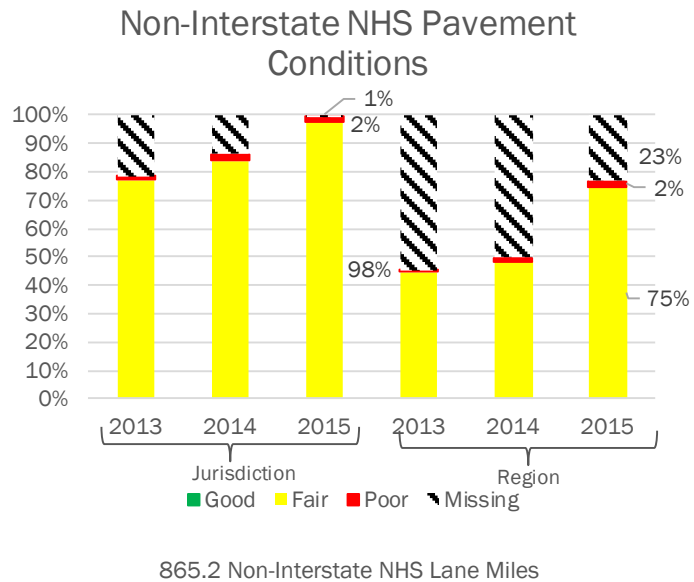
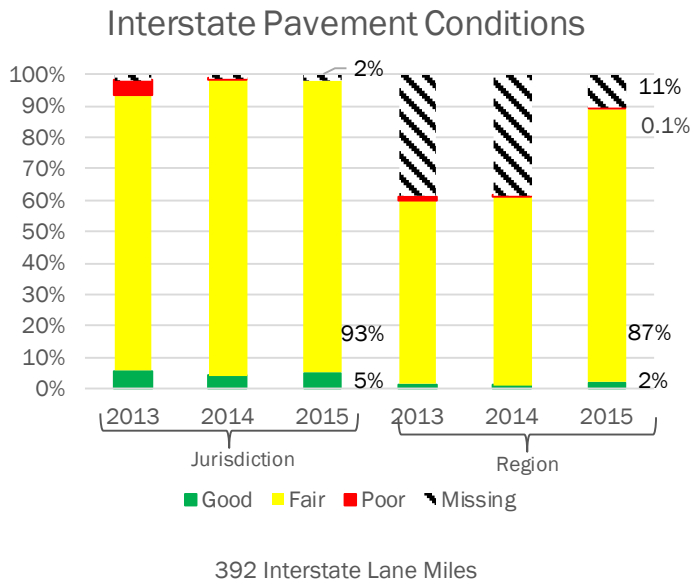


Performance Based Planning & Programming

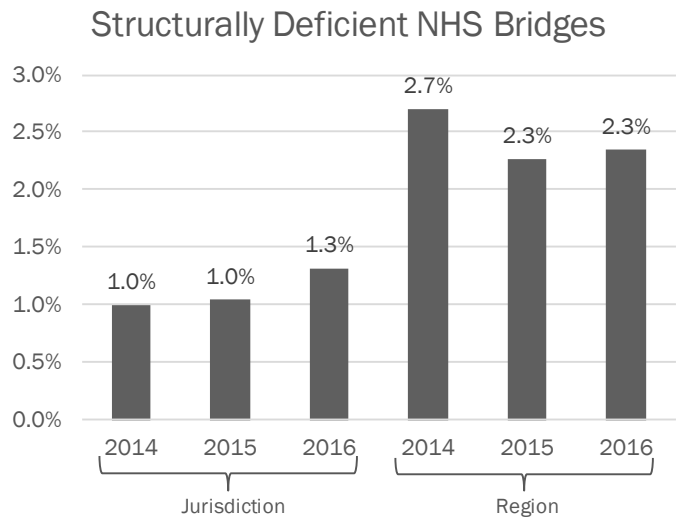
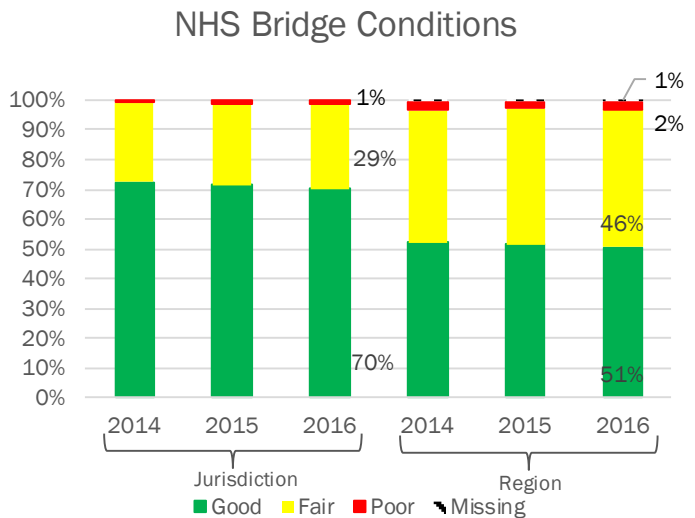
Fairfax County (including City of Falls Church and City of Fairfax)

The Federal Highway Administration has established measures for state departments of transportation to use to assess the condition of pavements on the National Highway System (NHS), bridges carrying the NHS which includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

Pavement Conditions (by lane mile)
(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)

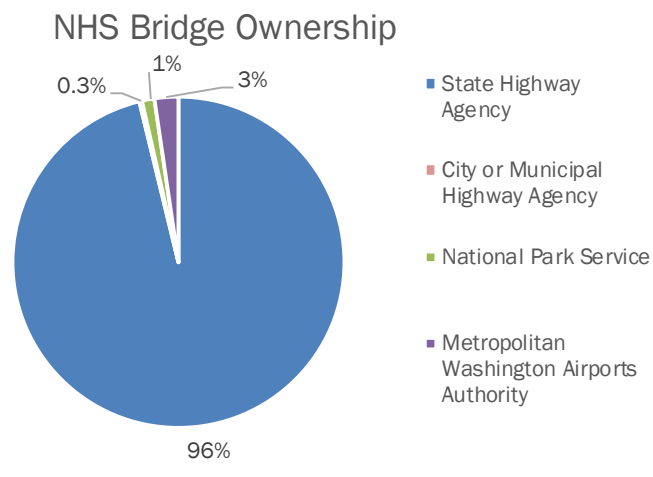
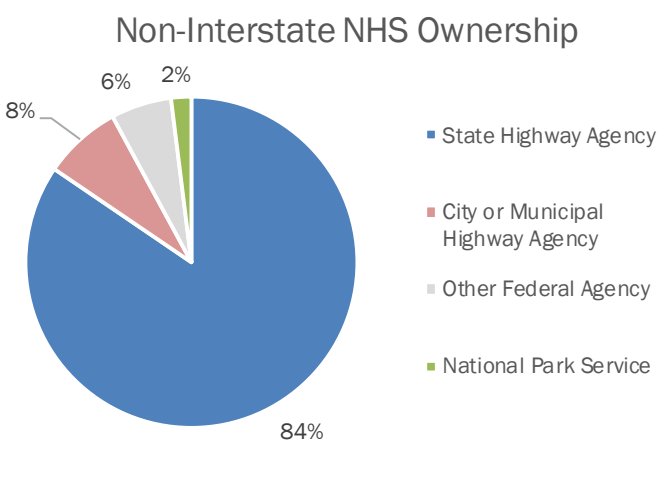


NHS Bridges (by square meters of deck area)
(Includes: 282 Bridges and 57 Culverts; 8 Structurally Deficient)



Largest Structurally Deficient Bridges (by deck area): Leesburg Pike At Route 267 & Dar, Centreville Road At Bull Run, Chainbridge Road At Route I-66

Ownership
(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)



Performance Based Planning & Programming

Fauquier County (Urbanized Area)

The Federal Highway Administration has established measures for state departments of transportation to use to assess the condition of pavements on the National Highway System (NHS), bridges carrying the NHS which includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

Pavement Conditions (by lane mile)

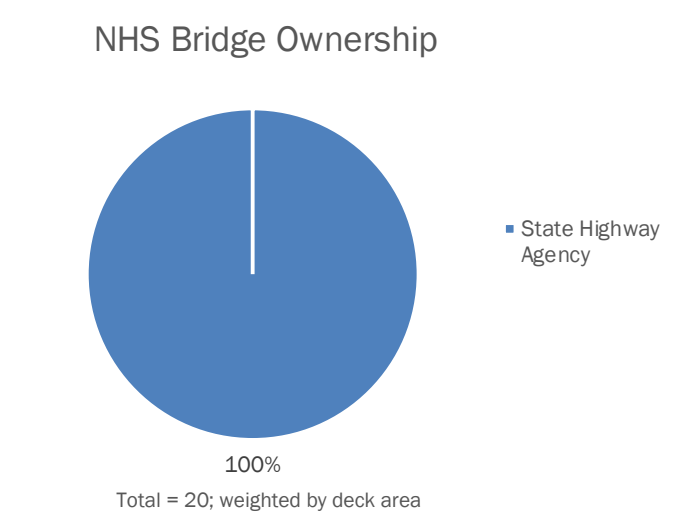
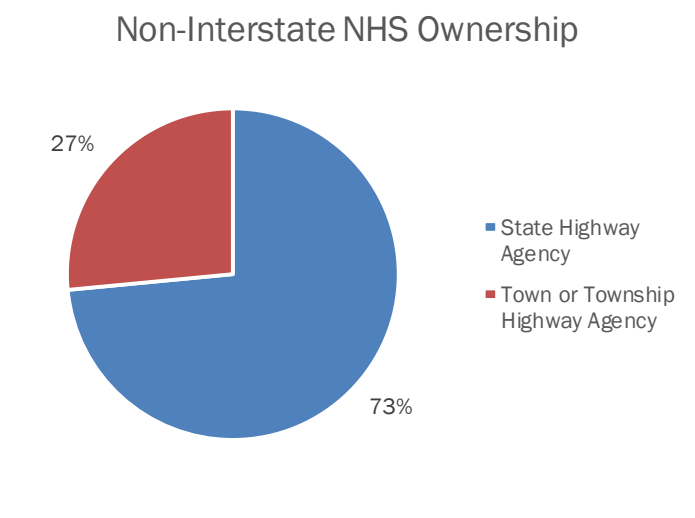
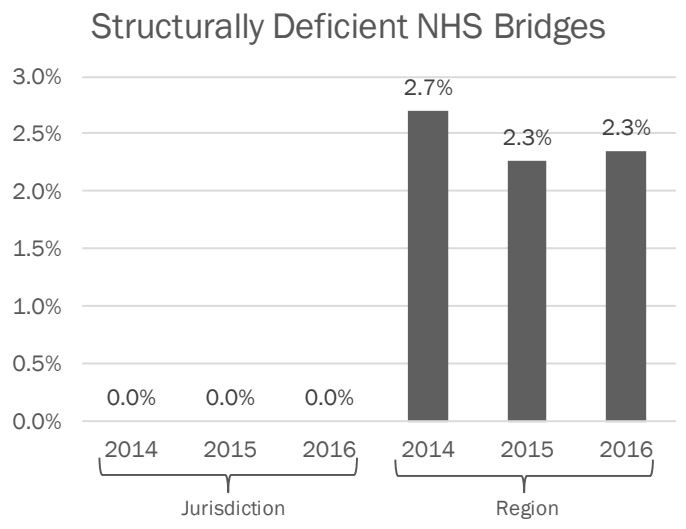
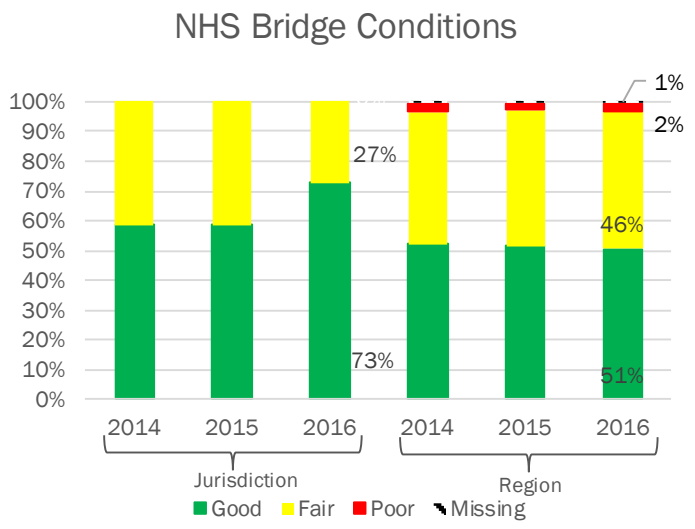
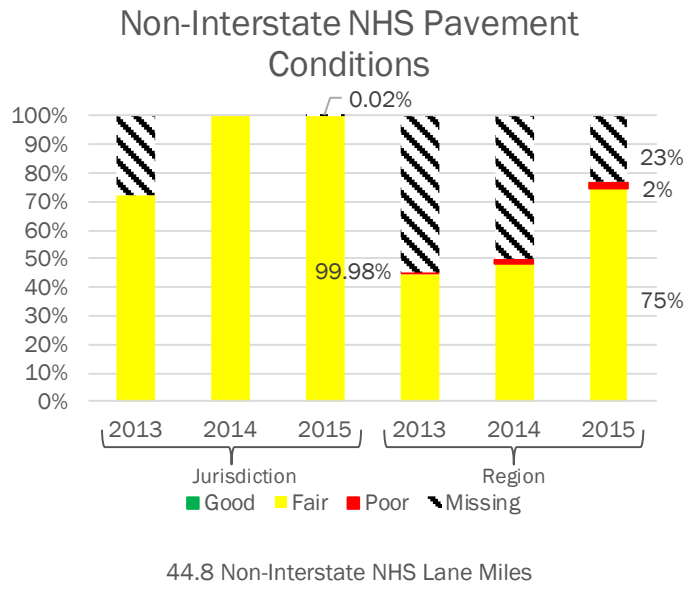
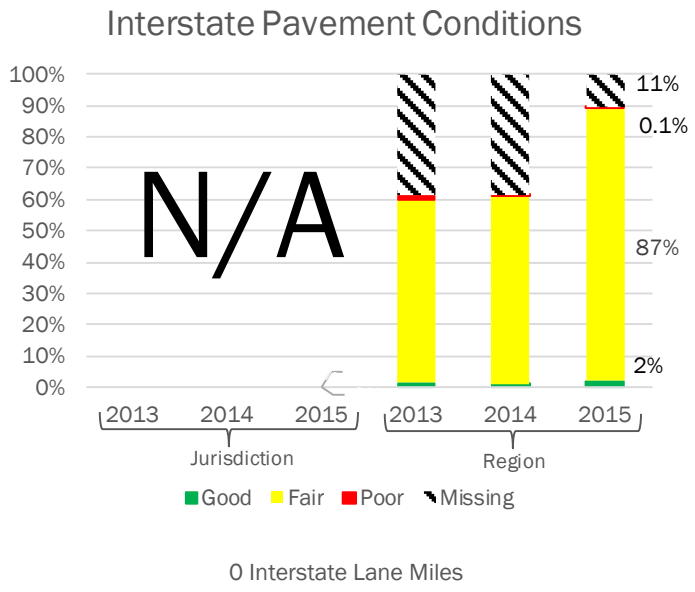
NHS Bridges (by square meters of deck area)

Ownership

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)

(Includes: 12 Bridges and 8 Culverts; 0 Structurally Deficient)

(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)



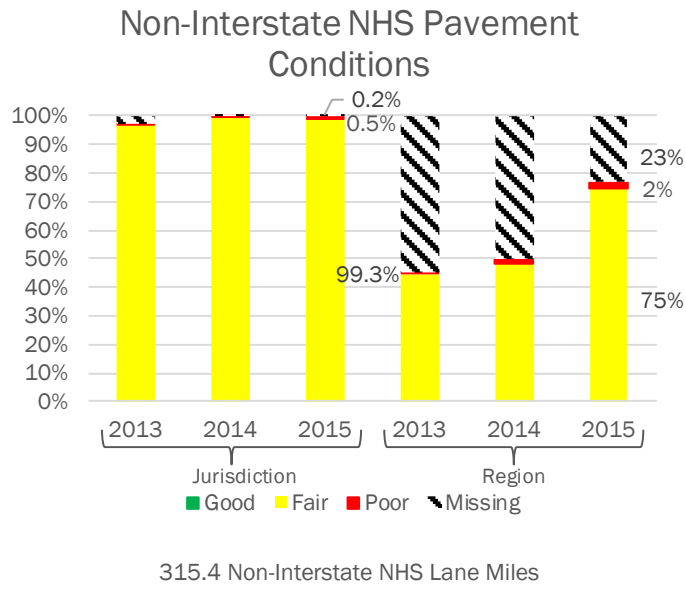
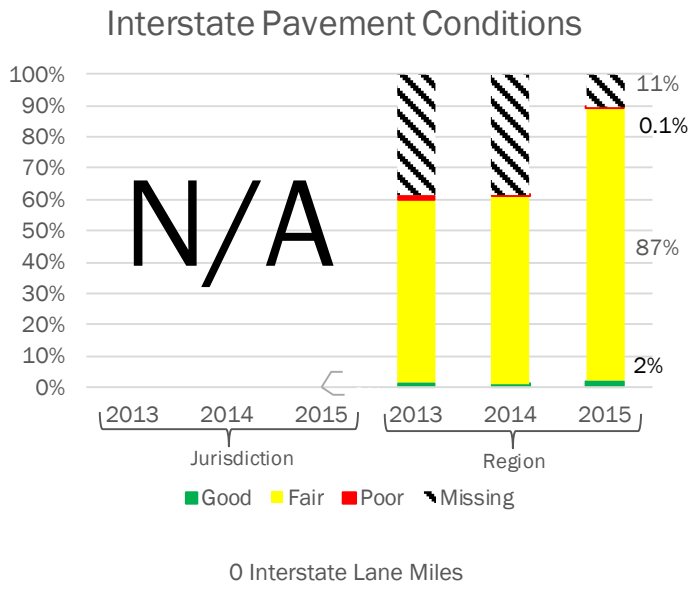
Performance Based Planning & Programming

Loudoun County

The Federal Highway Administration has established measures for state departments of transportation to use to assess the condition of pavements on the National Highway System (NHS), bridges carrying the NHS which includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

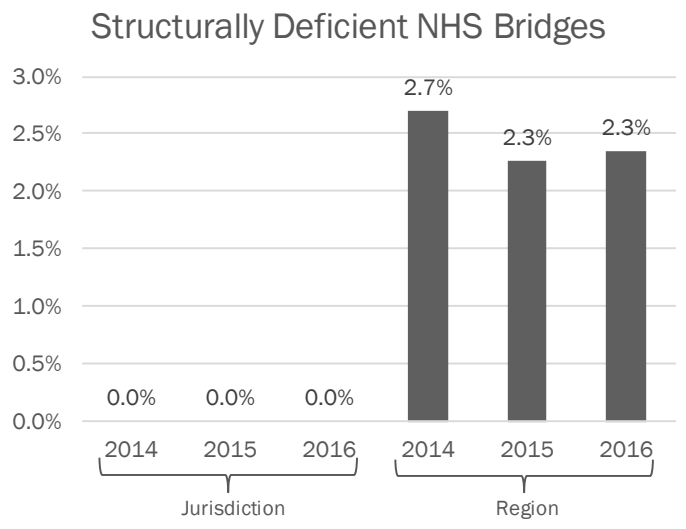
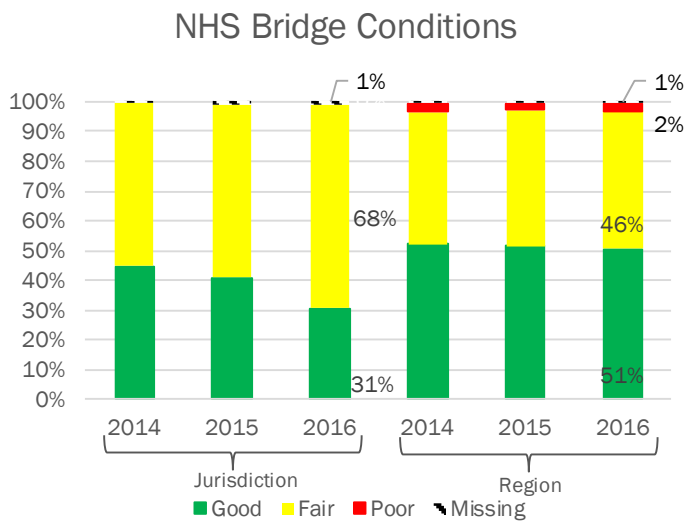
Pavement Conditions (by lane mile)

(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



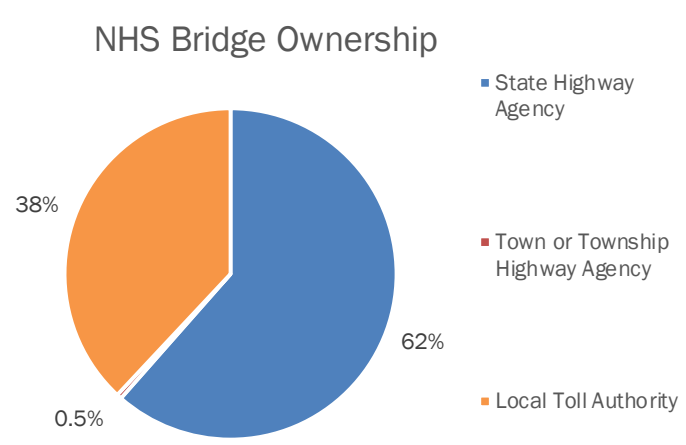
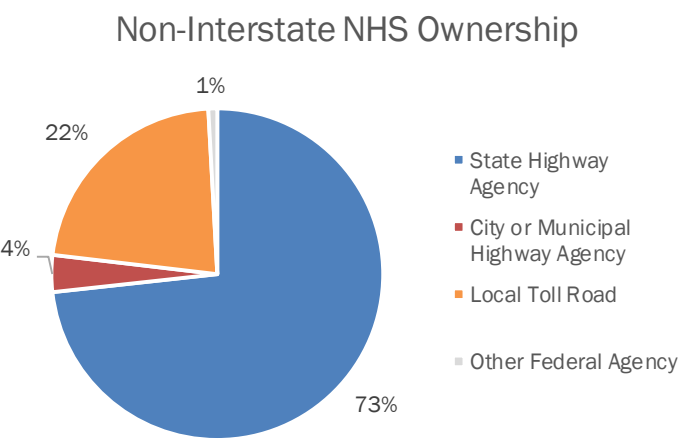
NHS Bridges (by square meters of deck area)

(Includes: 59 Bridges and 23 Culverts; 0 Structurally Deficient)



Ownership

(by lane mile or square meters of deck area; all interstate lane miles owned by the corresponding state highway agency)

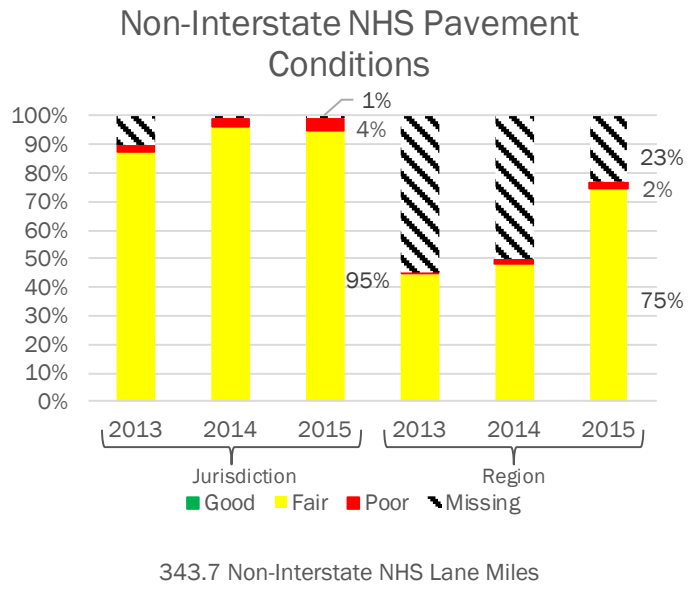
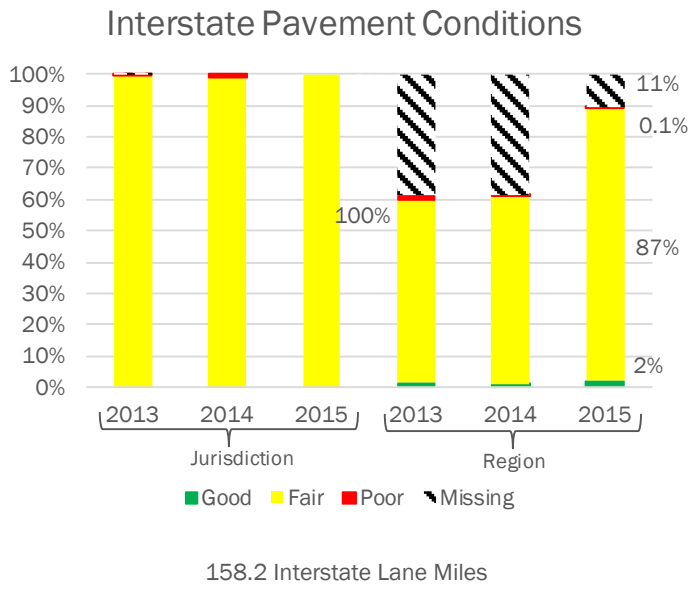


Total = 82; weighted by deck area

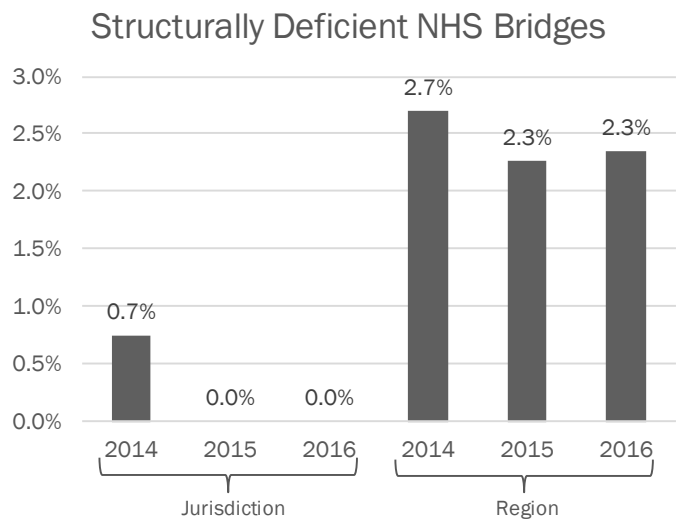
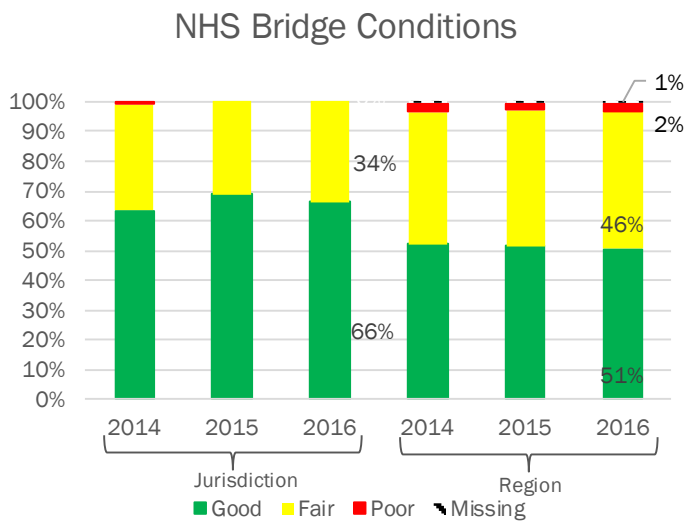
Prince William County (including City of Manassas and City of Manassas Park)

The Federal Highway Administration has established measures for state departments of transportation to use to assess the condition of pavements on the National Highway System (NHS), bridges carrying the NHS which includes on-and off-ramps connected to the NHS, and pavements on the Interstate System.

Pavement Conditions (by lane mile)
(Sections with Bridges, ramps, non-mainline, non-inventory direction, planned/unbuilt, unpaved and 'other' pavement types excluded)



NHS Bridges (by square meters of deck area)
(Includes: 79 Bridges and 15 Culverts; 0 Structurally Deficient)



Ownership
(by lane mile or square meters of deck area; all Interstate lane miles owned by the corresponding state highway agency)

