Rating Pavement and Bridges on the National Highway System

September 2023

PAVEMENT CONDITION RATINGS

The condition ratings by pavement types are explained in the table below. The three (3) pavement types are Asphaltic Concrete Overlay (ACO), Joint Concrete Pavement (JCP), and Continuously Reinforced Concrete Pavement (CRCP). The ratings are based on the structural evaluation of the International Roughness Index (IRI), Cracking, and Rutting and Faulting. The overall rating is based on the lowest rating for any one of the applicable metrics. For example, when an Asphaltic Concrete Overlay pavement segment has ratings for IRI and Cracking that are "fair", and the Rutting is "poor", the overall rating will be "poor". Additionally, for a pavement segment to be rated as "good", it must score "good" in all the applicable metrics.

Rating the Interstate & Non-Interstate National Highway System			
	Pavement Types		
Overall Condition Rating	3 metric ratings **ACO** - (IRI, Cracking, Rutting) **JCP** - (IRI, Cracking, Faulting)	2 metric ratings **CRCP** - (IRI and Cracking)	Measures
Good	All three metrics rated "Good"	Both metrics rated "Good"	% Lane Miles in "Good" Condition
Fair	All other combinations	All other combinations	% Lane miles in "Fair" Condition
Poor	≥ 2 Metrics rated "Poor"	Two metrics rated "Poor"	% Lane miles in "Poor" Condition

BRIDGE CONDITION RATINGS

The National Bridge Inventory includes a structural evaluation of deck, superstructure, substructure, and culvert. The four parts of a bridge are rated on a scale of 0-9. The overall bridge rating of "good, fair, or poor" is based on the lowest score for any of the four parts of the bridges. For example, if the deck, superstructure, substructure ratings are "good", yet the culvert is rated "fair", the overall rating of the bridge is "fair".

Rating Bridges of the National Highway System			
	Good	Fair	Poor
Bridge Evaluation Scores	≥ 7	< 7 and > 4	≤ 4

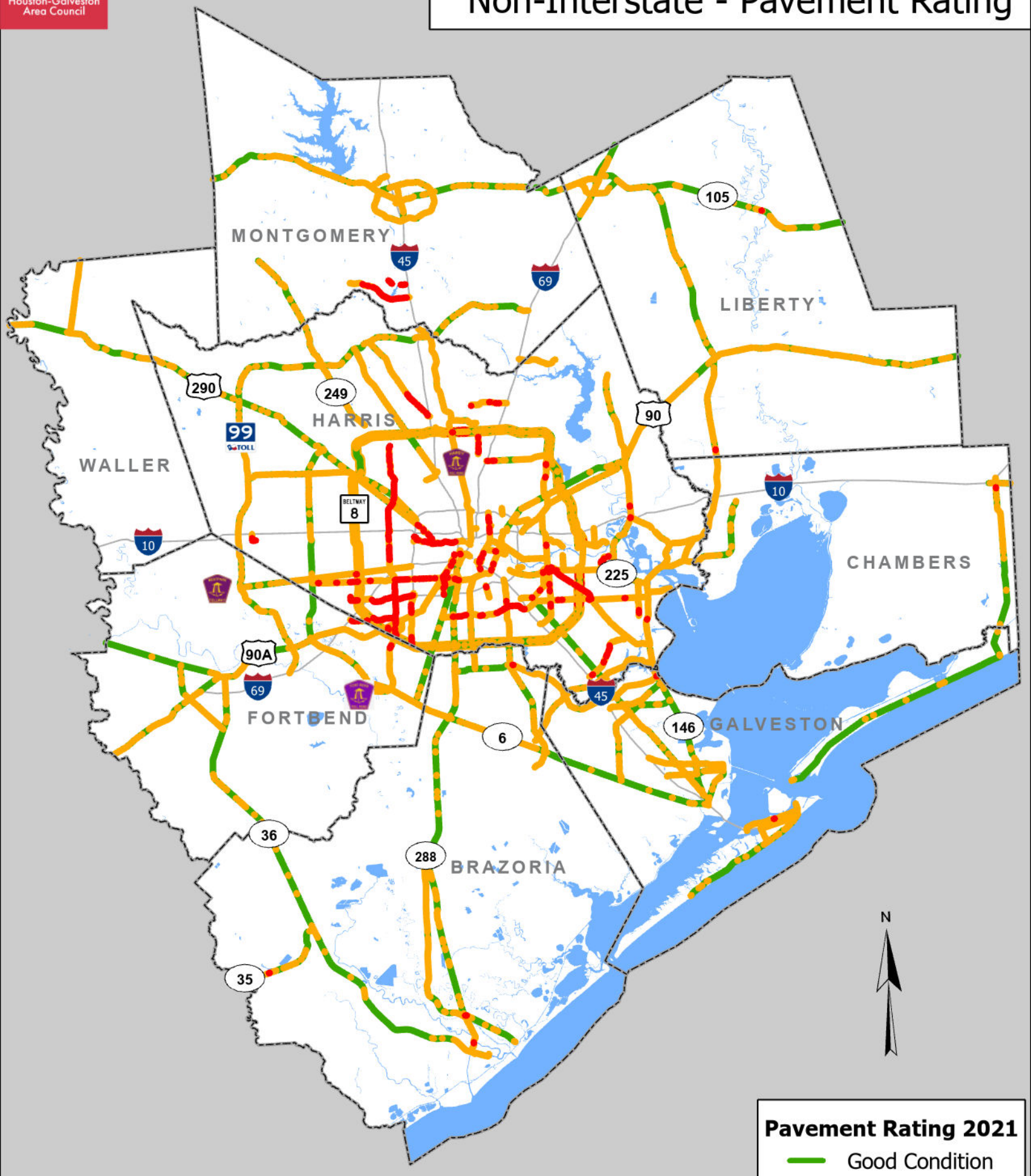
The source of pavement and bridge condition ratings is from the Texas Department of Transportation. For questions related to this document, contact Karen Owen, Karen.Owen@H-GAC.com.

National Highway System (NHS) Interstate - Pavement Rating

Source: Texas Department of Transportation

Houston-Galveston Area Council

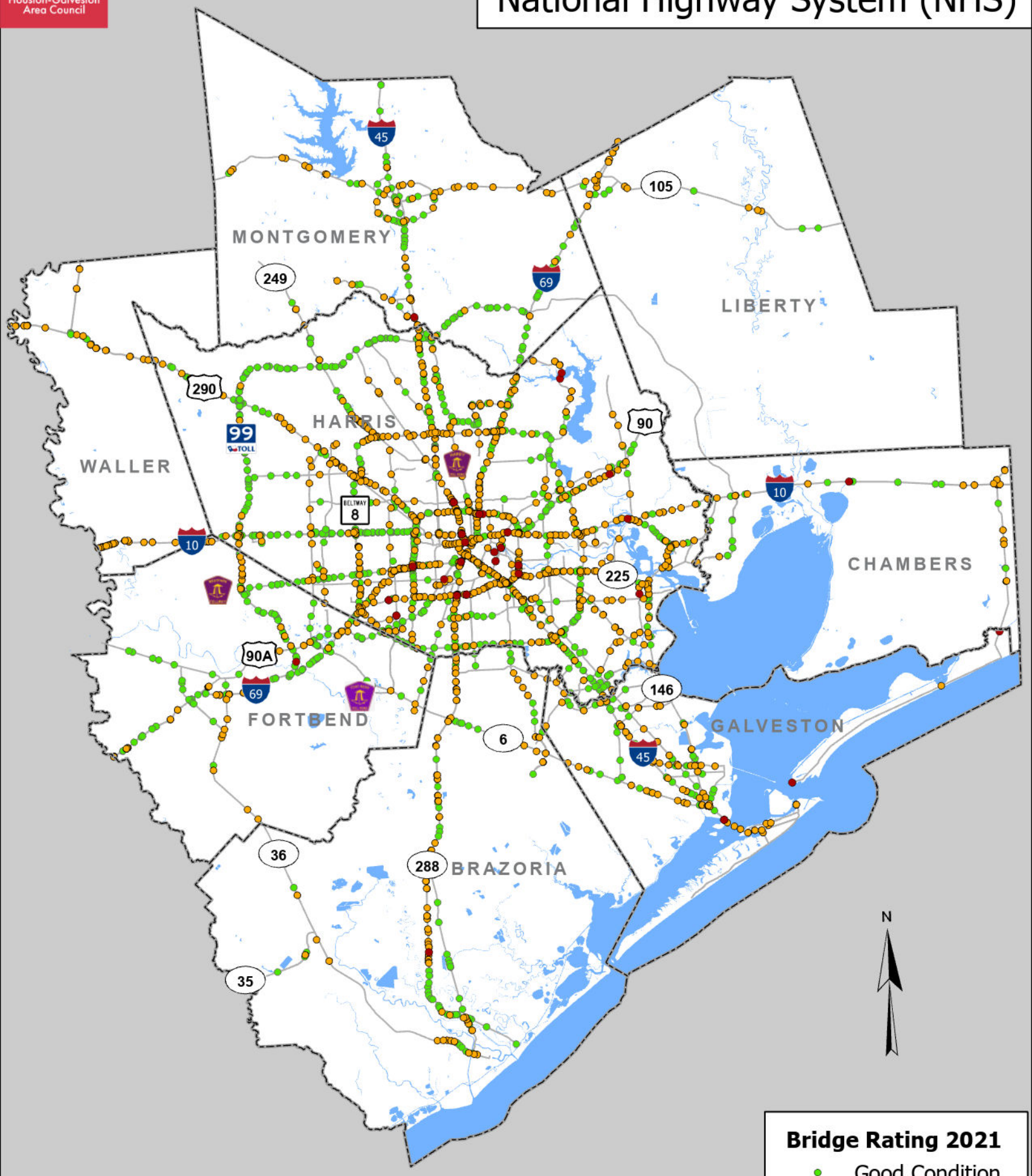
National Highway System (NHS) Non-Interstate - Pavement Rating



Source: Texas Department of Transportation

Houston-Galveston Area Council

Bridge Condition Rating
National Highway System (NHS)



Bridge Rating 2021

- Good Condition
- Fair Condition
- Poor Condition

Source: Texas Department of Transportation