

## Bridge Condition Transition Forecast

The Bridge Performance Transition Forecast tool in InfoBridge™ provides a list of bridges that may transition from one condition state to another over a user-specified period. Under Performance Forecast, select the Bridge Condition Transition Forecast tab to access the tool. The tool can also be accessed from the Tools menu.

The starting year for the forecast is set to the latest year for which the National Bridge Inventory (NBI) data are available. For selected bridges, users can specify the condition in the start year and the desired condition in a later year. Users may also input their minimum probability of occurrence for the forecast. Users select one of two deterioration models—the proportional hazards deterioration model or the machine learning model—to perform the calculations.

The resulting list of bridges, and a few pertinent NBI items, are displayed on screen and can also be exported into an Excel® spreadsheet.

Network Performance Forecast
Bridge Performance Transition Forecast

Performance Forecast Models

Probability of Occurrence (%) Greater Than Or Equal To

Display Results

Condition Going From: Fair
In Year: 2020
To: Poor
In Year: 2025

Export Table

List of Bridges from Fair Condition In Year 2020 to Poor Condition In Year 2025. Performance Forecast is based on Proportional Hazards Deterioration Models - Limited Preservation

1 - State Name	8 - Structure Number	22 - Owner Agency	CAT29 - Deck Area (sq ft)	27 - Year Built	43A - Main Span Material	43B - Main Span Design	Probability of Occurrence (%)
Arkansas	000000000005330	State Highway Agency	23,521.3	1969	Steel	Stringer/Multi-beam or Girder	68
Arkansas	000000000006429	State Highway Agency	44,297.8	1994	Steel Continuous	Stringer/Multi-beam or Girder	51
Arkansas	0000000000A3766	State Highway Agency	5,290.3	1967	Concrete	Slab	75
Arkansas	000000000002943	State Highway Agency	8,991.4	1958	Steel	Stringer/Multi-beam or Girder	62
Arkansas	000000000002461	State Highway Agency	5,638.1	1947	Steel	Stringer/Multi-beam or Girder	50
Arkansas	0000000000A3178	State Highway Agency	11,936.9	1959	Concrete	Slab	60
Arkansas	000000000003713	State Highway Agency	177,216.8	1968	Steel Continuous	Stringer/Multi-beam or Girder	69
Arkansas	0000000000M0336	State Highway Agency	4,890.0	1927	Concrete	Arch - Thru	54
Arkansas	000000000003844	State Highway Agency	7,372.7	1966	Steel	Stringer/Multi-beam or Girder	63
Arkansas	0000000000A3092	State Highway Agency	11,182.0	1958	Steel	Stringer/Multi-beam or Girder	54

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Source FHWA.