

# Bridge Condition Evaluation

**Note:** this map uses sample data from MDOT.

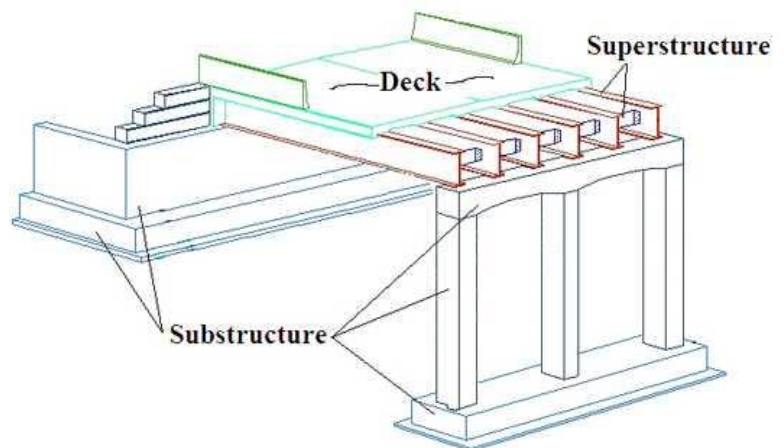
This map shows the most recent bridge condition ratings using data from the state's Transportation Asset Management Council (TAMC) dashboard. Bridge inspectors use the National Bridge Inventory (NBI) 0 to 9 rating scale (page 2), established by the Federal Highway Administration (FHWA), to rate structural elements for each bridge:

**Deck:** The portion of the bridge that directly carries traffic

**Superstructure:** The portion of the bridge that supports the deck and connects one substructure element to another

**Substructure:** The portion of the bridge that supports the superstructure and distributes all bridge loads to below-ground bridge footings.

Good	Deck Rating, Super Structure, or Sub Structure is 7, 8, or 9
Fair	Deck Rating, Super Structure, or Sub Structure is 5 or 6
Poor	Deck Rating, Super Structure, or Sub Structure 0, 1, 2, 3, or 4.



## National Bridge Inventory (NBI) Rating Scale

9	EXCELLENT CONDITION
8	VERY GOOD CONDITION - no problems noted
7	GOOD CONDITION - some minor problems.
6	SATISFACTORY CONDITION - structural elements show minor deterioration
5	FAIR CONDITION - all primary structural elements are sound but may have minor corrosion, cracking or chipping. May include minor erosion on bridge piers.
4	POOR CONDITION - advanced corrosion, deterioration, cracking or chipping. Also significant erosion of concrete bridge piers.
3	SERIOUS CONDITION - corrosion, deterioration, cracking and chipping, or erosion of concrete bridge piers have seriously affected deck, superstructure, or substructure. Local failures are possible.
2	CRITICAL CONDITION - advanced deterioration of deck, superstructure, or substructure. May have cracks in steel or concrete, or erosion may have removed substructure support. It may be necessary to close the bridge until corrective action is taken.
1	"IMMINENT" FAILURE CONDITION - major deterioration or corrosion in deck, superstructure, or substructure, or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic but corrective action may put back in light service.
0	FAILED CONDITION - out of service - beyond corrective action
N	Not applicable

**Questions:** Contact [Ed Hug](#) at SEMCOG