

Bridge Inspection Terminology and Sufficiency Ratings

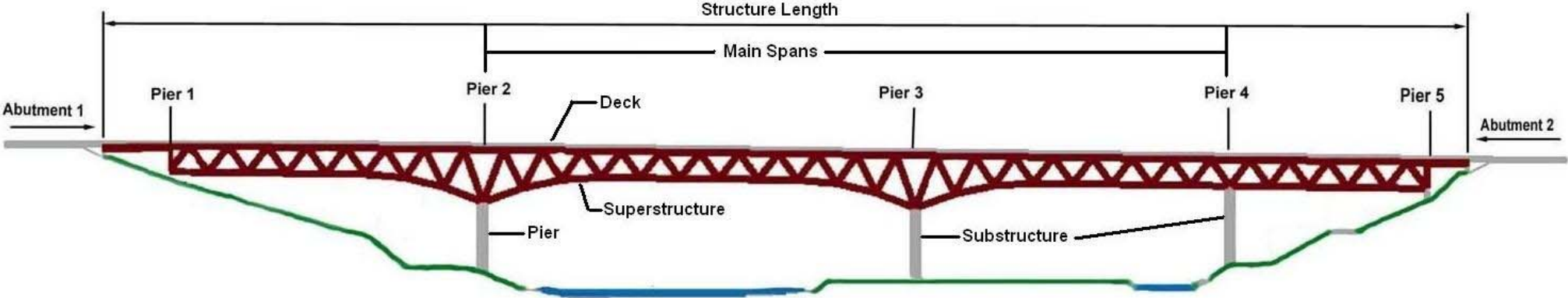
Please read the definitions below to understand the information on the accompanying chart.

COLUMN NAME	DEFINITION
County Name	Name of county where bridge is located.
Structure Name	Official, or commonly used, name for bridge.
Feature Carried	Roadway that continues (or is carried) over bridge. Roadway is identified by either the assigned street name or number, and possibly the direction of traffic using the bridge (for example, EB means eastbound). Abbreviation indicates whether the roadway is a federal highway (I for interstate), state-owned roadway (SR for state route), or local roadway owned by township/municipality.
Feature Intersected	Roadway, waterway or railroad (or combination of these) that exists underneath the bridge.
Owner Description	Name of governmental agency or railroad that owns bridge and is responsible for inspecting and maintaining the physical structure. Governmental agencies that own bridges include the state (identified as PennDOT), a county, a city, a township, a port authority, Pennsylvania Turnpike Commission, or other unique organizations.
Bridge ID#	Unique identification number assigned to bridge.
Structure Length (ft)	Length of the structure measured in feet.
No of main Spans	Number of sections (or spans) to the bridge that cross a major feature (for example a river). A main span is the horizontal space between two supports (piers) of the bridge, not from a support to the end of the road surface.
Year Built	Year the bridge was built.
Open / Closed / Posted	Operational status of bridge: <i>Open</i> – bridge is open to traveling public <i>Closed</i> – bridge is closed (barriers and signs put in place) and cannot be used by traveling public. <i>Posted</i> – bridge is open but signs have been placed stating a weight limit that can travel across the bridge.
Weight Limit – Single	If bridge is posted, signs are placed to indicate the maximum weight (in tons) of a single vehicle (for example, a concrete mixer truck) that can travel on the bridge.

COLUMN NAME	DEFINITION
Weight Limit – Comb (Combination)	If bridge is posted, signs are placed to indicate the maximum weight (in tons) of a combination vehicle (for example, tractor trailer) that can travel on the bridge.
Condition Rating – Deck	<p>Single-digit number that describes the physical condition of the deck (top surface of bridge that carries traffic) compared to its original as-built condition. Number is assigned by state-certified bridge inspectors during each inspection of the bridge, which occurs at least every two years. Number range is nine to zero.</p> <p>See the description for Condition Rating – Superstructure for a general definition of each number.</p>
Condition Rating – Sup (Superstructure) <i>Superstructure</i> is the underlying or supporting part of a bridge, for example steel members under the deck.	<p>Single-digit number that describes the physical condition of the superstructure compared to its original as-built condition. Number is assigned by state-certified bridge inspectors during each inspection of the bridge, which occurs at least every two years.</p> <p>Number range is nine to zero. A rating of 4 or below indicates poor conditions that result in a structural deficient classification.</p> <p>9 = Excellent 8 = Very good 7 = Good, some minor problems noted 6 = Satisfactory, structural elements showing minor deterioration 5 = Fair, primary structural elements are sound but showing minor cracks and signs of deterioration 4 = Poor, deterioration of primary structural elements has advanced 3 = Serious, deterioration has seriously affected the primary structural components 2 = Critical, deterioration of primary structural components has advanced and bridge will be closely monitored, or closed, until corrective action can be taken. 1 = Imminent failure, major deterioration in critical structural components. Bridge is closed but corrective action may put the bridge back into light service. 0 = Failed, bridge is out of service and beyond corrective action.</p>
Condition Rating – Sub (Substructure) <i>Substructure</i> is the part of the bridge that supports the superstructure such as piers and abutments.	<p>Single-digit number that describes the physical condition of the substructure compared to its original as-built condition. Number is assigned by state-certified bridge inspectors during each inspection of the bridge, which occurs at least every two years.</p> <p>See the description for Condition Rating – Superstructure for an explanation of each number.</p>

COLUMN NAME	DEFINITION								
<p>Struc Def Func Obsl (Structurally Deficient Functionally Obsolete)</p>	<p>Indication of bridge's overall status in terms of structural soundness and ability to service traveling public.</p> <p><i>FO (functionally obsolete)</i> means that the bridge has older features (for example, road widths and weight limits) compared to more recently built bridges.</p> <p><i>SD (structurally deficient)</i> means that the bridge has deterioration to one or more of its major components.</p>								
<p>Suff Rtng (Sufficiency Rating)</p>	<p>A calculated rating indicating the bridge's sufficiency (or capability). Factors included in the calculation are:</p> <ul style="list-style-type: none"> • the structure's adequacy and safety (accounting for 55% and based on inspection data), • the structure's serviceability and functional obsolescence (accounting for 30% and based on ability of bridge to meet current traffic conditions), and • how essential the bridge is for public use (accounting for 15%) <p>Ratings range from 100 (entirely sufficient) to 0 (entirely insufficient or deficient).</p> <p>The Sufficiency Rating is considered by the federal government when a state requests federal bridge dollars to improve the condition of the bridge. Bridges with low sufficiency ratings are eligible for more funds.</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">Sufficiency Rating</th> <th style="text-align: left;">Funding Eligibility</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">80 – 100</td> <td>Not available</td> </tr> <tr> <td style="text-align: center;">50 – 79</td> <td>Eligible for costs to rehabilitate or refurbish bridge</td> </tr> <tr> <td style="text-align: center;">0 – 49</td> <td>Eligible for costs to replace bridge</td> </tr> </tbody> </table>	Sufficiency Rating	Funding Eligibility	80 – 100	Not available	50 – 79	Eligible for costs to rehabilitate or refurbish bridge	0 – 49	Eligible for costs to replace bridge
Sufficiency Rating	Funding Eligibility								
80 – 100	Not available								
50 – 79	Eligible for costs to rehabilitate or refurbish bridge								
0 – 49	Eligible for costs to replace bridge								

Steel Deck Truss Bridge



DECK TRUSS HIGHWAY BRIDGES - STATEWIDE - ALL AGENCIES

County Name	Structure Name	Feature Carried	Feature Intersected	Owner Description	Bridge ID	Structure Length (FT)	No of main Spans	Year Built	Open Closed Posted	Weight Limit		Condition Rating			Struc Def Func Obsl	Suff Rtnng
										Single Tons	Comb Tons	Deck	Sup	Sub		
<u>PENNDOT OWNED</u>																
Allegheny	PITTSBURGH-62ND STREET BRIDGE	62ND STREET BRIDGE	N&S RAILROAD, SOUTH MAIN STREET, RIVER	PENNDOT	02000801800048	2,106	4	1960	Open	--	--	6	6	5	FO	25
Allegheny	A9801 OVER RAILROAD, RIVER	TARENTUM BRIDGE	NORFOLK SOUTHERN	PENNDOT	02036600320975	1,784	4	1949	Open	--	--	6	5	6	FO	53
Allegheny	FRAZIER STREET	PARKWAY EAST	CSX RAILROAD, SWINEBURN, FRAZIER	PENNDOT	02037600340000	1,015	4	1951	Open	--	--	6	6	6	FO	64
Allegheny	HIGHLAND PARK BRIDGE	STATE ROUTE 1005	STATE ROUTE 8, N & S RAILROAD, ALLEGHENY RIVER	PENNDOT	02100500200000	2,423	7	1940	Open	--	--	7	5	5	--	61
Allegheny	HALL STATION BRIDGE	WILLIAM PENN HIGHWAY	LOCAL ROUTE 744, UNION RR, THOMPSON	PENNDOT	02204800500000	1,252	4	1942	Open	--	--	7	5	6	--	63
Allegheny	LIBERTY BRIDGE	LIBERTY BRIDGE	MONONGAHELA RIVER, I-376, STATE ROUTE 837	PENNDOT	02306901100135	2,663	11	1928	Open	--	--	5	5	5	FO	38
Allegheny	MCKEES ROCKS OVER RIVER	MCKEES ROCKS BRIDGE	NORFOLK AND SOUTHERN RAILROAD	PENNDOT	02310400300000	3,754	1	1931	Open	--	--	6	5	6	FO	46
Armstrong	JUDGE J. FRANK GRAFF	STATE ROUTE 422 EASTBOUND & WESTBOUND	ALLEGHENY RIVER/STATE ROUTE 3001/STATE ROUTE 2011/RAILROAD	PENNDOT	03042202100000	2,701	3	1974	Open	--	--	5	5	5	--	83
Beaver	ROCHESTER-BRIDGewater BRIDGE	PENNSYLVANIA AVENUE	STATE ROUTE 65, BEAVER RIVER, N&S RAILROAD	PENNDOT	04005102300000	993	3	1963	Open	--	--	6	4	5	SD	62
Beaver	KOPPEL BRIDGE	KOPPEL BRIDGE	CSX, N & STATE ROUTES, & BEAVER RIVER	PENNDOT	04035101600000	1,206	7	1915	Open	--	--	7	4	5	SD	8
Carbon	THOMAS J. MCCALL MEMORIAL BRIDGE	US ROUTE 209 (LOCAL ROUTE 163)	N&S RAILROAD, CANAL	PENNDOT	13020903000000	1,538	3	1938	Open	--	--	5	5	4	SD	29
Clarion	EMLENTON	STATE ROUTE 80 EASTBOUND & WESTBOUND	ALLEGHENY RIVER, STATE ROUTE 268, RAILROAD	PENNDOT	16008004420000	1,675	3	1966	Open	--	--	6	6	5	--	85
Clarion	DEER CREEK	STATE ROUTE 80 EASTBOUND & WESTBOUND	DEER CREEK & TRAFFIC ROUTE 411	PENNDOT	16008005801595	1,042	3	1965	Open	--	--	6	6	5	--	76
Clarion	CLARION RIVER	STATE ROUTE 80 EASTBOUND & WESTBOUND	CLARION RIVER	PENNDOT	16008006041521	1,635	3	1965	Open	--	--	6	5	5	--	71
Erie	HARBOR CREEK TOWNSHIP	STATE ROUTE 90, EASTBOUND	OVER SIX MILE CREEK	PENNDOT	25009003300000	759	3	1959	Open	--	--	6	5	5	SD	62
Erie	HARBOR CREEK TOWNSHIP	STATE ROUTE 90, WESTBOUND	OVER SIX MILE CREEK	PENNDOT	25009003310000	806	3	1959	Open	--	--	6	5	5	SD	62
Indiana	BLAIRSVILLE NO. 1	STATE ROUTE 22 EASTBOUND & WESTBOUND	CONEMAUGH RIVER	PENNDOT	32002200100000	658	4	1951	Open	--	--	7	6	7	--	95
Jefferson	MARGIOTTI	STATE ROUTE 436	MAHONING CREEK/WATER STREET/B&P RAILROAD	PENNDOT	33043600500000	727	3	1937	Open	--	--	7	5	5	FO	64
Lehigh	LEHIGH GAP BRIDGE	STATE ROUTE 873 (LOCAL ROUTE 163)	LEHIGH RIVER & N/S RAILROAD	PENNDOT	39087301601840	1,024	5	1930	Open	--	--	6	5	6	FO	59
Mercer	WEST MIDDLESEX BOROUGH	STATE ROUTE 318, WEST MIDDLESEX-MRC	OVER CITY STREET/RAILROAD/RIVER	PENNDOT	43031800601201	718	1	1941	Posted	331	401	6	5	5	FO	48
Northampton	GENE HARTZELL BRIDGE	STATE ROUTE 33	RIVER CANAL, N&S RAILROAD	PENNDOT	48003300640312	1,874	4	2001	Open	--	--	8	7	9	--	83
Warren	MEAD TOWNSHIP	STATE ROUTE 59, KINZUA LANE	OVER KINZUA CREEK	PENNDOT	61005902300063	1,813	6	1962	Open	--	--	5	5	5	--	81
Washington	BROWNSVILLE HIGH LEVEL	STATE ROUTE 40	MONONGAHELA RIVER, STATE ROUTE 88, 4003, 4035, N&S RAILROAD	PENNDOT	62004008400000	2,133	3	1960	Open	--	--	7	7	6	FO	76
Washington	BELLE VERNON BRIDGE	STATE ROUTE 70	STATE ROUTE 88, 906, 2 RAILROAD, MONONGAHELA RIVER	PENNDOT	62007004001415	2,066	3	1951	Open	--	--	6	5	5	FO	40
Washington	DONORA-MONESSEN BRIDGE	STATE ROUTE 1077	MONONGAHELA, STATE ROUTE 837, 906, CSX, CONSOL	PENNDOT	62107700200000	2,141	3	1972	Open	--	--	4	5	5	SD	66
Westmoreland	SMITHTON HI LEVEL BRIDGE	STATE ROUTE 70	CSX RAILROAD, TOWNSHIP ROAD, YOUGHIOGHENY RIVER	PENNDOT	64007004740000	1,355	6	1956	Open	--	--	7	7	7	FO	66
Westmoreland	DONALD R. LOBAUGH BRIDGE	STATE ROUTE 356	STATE ROUTE 2019, RAILROAD & ALLEGHENY	PENNDOT	64035602220000	3,114	3	1962	Open	--	--	4	3	4	SD	2
Philadelphia	GIRARD POINT BRD. 37A10	I-95	SCHUYLKILL RIVER, RAILROAD	PENNDOT	67009501500000	5,167	3	1973	Open	--	--	6	6	6	--	79

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										Single Tons	Comb Tons	Deck	Sup	Sub		
Non PENNDOT OWNED																
Allegheny	MA08 GLENWOOD BRIDGE	GLENWOOD BRIDGE	MONONGAHELA RIVER,3 RAILROADS,CARSON STREET	ALLEGHENY COUNTY	02088502300741	2,276	3	1966	Open	--	--	7	7	7	FO	68
Allegheny	@ INTERSECTION W/ STATE ROUTE 1013	BAKERSTOWN ROAD	B&E RAILROAD	B&E RAILROAD	02102801300705	141	1	1921	Open	--	--	5	4	4	SD	40
Allegheny	ALLEGHENY RIVER	PA TURNPIKE (I-76)	STATE ROUTE1001,N&S.AL.RAILROAD,WESTBOUND-443	PA TURNPIKE COMMISSION	02707699004800	2,186	5	1952	Open	--	--	6	5	6	FO	60
Allegheny	301005 CHARLES ANDERSON BRIDGE	BOULEVARD OF THE ALLIES	CSX RAILROAD & BIKE TRAIL	CITY OF PITTSBURGH	02730100003005	780	3	1938	Open	--	--	6	5	5	FO	27
Allegheny	301052 ROBERT MCAFEE BRIDGE	CALIFORNIA AVENUE	MCCLURE AVENUE,ECKERT STREET	CITY OF PITTSBURGH	02730100003052	642	1	1928	Open	--	--	6	5	6	--	85
Allegheny	301084 BETWEEN FORBES&PHIPPS CONSERVANCY	SCHENLEY DRIVE	CSX RAILROAD,BOUNDARY STREET	CITY OF PITTSBURGH	02730100003084	480	1	1896	Open	--	--	7	6	6	--	95
Allegheny	301085 BETWEEN PHIPPS&SCHENLEY PARK POOL	PANTHER HOLLOW TRUSS	PANTHER HOLLOW	CITY OF PITTSBURGH	02730100003085	640	1	1896	Open	--	--	7	5	6	--	79
Allegheny	301109 SWINDELL BRIDGE	SWINDELL BRIDGE	1279.HOV.RAMP G,EAST STREET	CITY OF PITTSBURGH	02730100003109	1,097	4	1930	Open	--	--	5	5	6	FO	60
Allegheny	MA12 HOMESTEAD HIGH LEVEL	HOMESTEAD HIGH LEVEL BRIDGE	MONONGAHELA,CSX,N&S RAILROAD WF DRIVE,5&7	ALLEGHENY COUNTY	02730130472382	3,138	4	1936	Open	--	--	5	5	5	FO	49
Allegheny	302001 RAVENSBURG BRIDGE SOUTH	RAVENSBURG BOULEVARD	WHEELING & LAKE ERIE RAILROAD	CITY OF CLAIRTON	02730200001001	506	3	1963	Open	--	--	8	6	7	--	81
Allegheny	302002 RAVENSBURG BRIDGE NORTH	RAVENSBURG BOULEVARD	PETERS CREEK	CITY OF CLAIRTON	02730200001002	850	3	1963	Open	--	--	8	6	7	--	81
Allegheny	DK01 DOOKER'S HOLLOW BRIDGE	CENTER AVENUE	O'CONNELL BOULEVARD	ALLEGHENY COUNTY	02744900002146	641	3	1940	Open	--	--	4	4	4	SD	66
Allegheny	MA0735 RANKIN BRIDGE-MAIN STREET	RANKIN BRIDGE	STATE ROUTE 837 EXTENSION, 3 RAILROADS, KENMAR AVENUE	ALLEGHENY COUNTY	02745600002347	2,427	3	1951	Open	--	--	4	4	4	SD	31
Allegheny	TS05 HOMEVILLE ROAD VIADUCT	HOMEVILLE ROAD	UNION RAILROAD,GRANT,THOMPSON RUN	ALLEGHENY COUNTY	02747351492935	773	1	1954	Open	--	--	6	5	5	FO	57
Armstrong	COUNTY #5 - CLIMAX	TRAFFIC ROUTE-970 CLIMAX ROAD	REDSBANK CREEK	ARMSTRONG & CLARION COUNTY	03721301000005	258	3	1898	Posted	7T	--	4	4	5	SD	17
Beaver	EAST OF BEAVER VALLEY INTERCHANGE	PA TURNPIKE I-76, WESTBOUND-211	STATE ROUTE 1001, BEAVER RIVER, RAILROAD	PA TURNPIKE COMMISSION	04707699001321	1,546	5	1952	Open	--	--	6	5	5	FO	62
Carbon	PARRYVILLE	PA TURNPIKE(I-476)	POHOPOCO CR&PR ROAD,NORTHBOUND-526	PA TURNPIKE COMMISSION	13747699007463	928	2	1955	Open	--	--	6	5	4	SD	41
Carbon	4 MILE WEST OF ALBRIGHTSVILLE	PA TURNPIKE(I-476)	MUD RUN,NORTHBOUND-610	PA TURNPIKE COMMISSION	13747699008859	738	3	1957	Open	--	--	7	4	7	SD	54
Lehigh	HOKENDAUQUA NORTH CATAWAUQUA	LEHIGH STREET	LEHIGH RIVER, N&S RAILROAD, WATER STREET	LEHIGH & NORTHHAMPTON COUNTIES	39101400400744	782	4	1908	Posted	7T	13T	3	3	4	SD	2
Lehigh	NORTHWEST CATAWAUQUA	PINE STREET	LEHIGH RIVER, NORFOLK WATER STREET	LEHIGH COUNTY	39740200009034	1,167	2	1953	Open	--	--	6	4	5	SD	49
Pike	MILFORD BOROUGH	US ROUTE 206(LOCAL ROUTE 942)	DELAWARE RIVER	DELAWARE BRIDGE COMMISSION	51740299940005	1,289	4	1953	Open	--	--	6	6	6	FO	70
Westmoreland	SOUTH OF LLOYDSVILLE	MONASTERY DRIVE	NORFOLK SOUTHERN	RAILROAD/UNITY TOWNSHIP	64721708980007	228	1	1920	Posted	5T	--	6	4	5	SD	5
Philadelphia	WALT WHITMAN BRIDGE 37A08	I-76	DELAWARE RIVER	DELAWARE RIVER PORT AUTHORITY	67730100760230	11,676	1	1957	Open	--	--	5	6	6	FO	45
Philadelphia	BETSY ROSS BRIDGE 30A06	NEW JERSEY ROUTE 90	DELAWARE RIVER	DELAWARE RIVER PORT AUTHORITY	67730100800120	8,487	3	1973	Open	--	--	7	5	6	--	14
Philadelphia	BEN FRANKLIN BRIDGE 29A12	BENJAMIN FRANKLIN	I-676, US ROUTE 30, PATCO	DELAWARE RIVER PORT AUTHORITY	67730106760000	8,170	3	1926	Open	--	--	7	5	5	FO	33
Philadelphia	TACONY-PALMYRA BRIDGE	NEW JERSEY ROUTE 73	DELAWARE RIVER	BURLINGTON BRIDGE	67730199910015	3,659	2	1929	Open	--	--	4	5	5	SD	47