

# HistoricBridges.org - National Bridge Inventory Data Sheet

2009 Inventory

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.

Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

## Basic Information

Pennsylvania [42]		Butler County [019]		Slippery Rock [71192]		DOUGHERTYS MILLS		41-02-13 = 41.036944		080-01-48 = - 80.030000	
100173006005330		Highway agency district 10		Owner State Highway Agency [01]		Maintenance responsibility		State Highway Agency [01]			
Route 173		SR0173		Toll On free road [3]		Features intersected SLIPPERY ROCK CREEK					
Design - main Concrete [1]		Design - approach		Kilometerpoint 346 km = 214.5 mi							
2		Arch - Deck [11]		0		Other [00]		Year built 1929		Year reconstructed N/A [0000]	
								Skew angle 15		Structure Flared	
								Historical significance Bridge is not eligible for the NRHP. [5]			
Total length 42.7 m = 140.1 ft		Length of maximum span 21.3 m = 69.9 ft		Deck width, out-to-out 9 m = 29.5 ft		Bridge roadway width, curb-to-curb 8.4 m = 27.6 ft					
Inventory Route, Total Horizontal Clearance 8.4 m = 27.6 ft		Curb or sidewalk width - left 0 m = 0.0 ft		Curb or sidewalk width - right 1.5 m = 4.9 ft							
Deck structure type		Concrete Cast-in-Place [1]									
Type of wearing surface		Not applicable (applies only to structures with no deck) [N]									
Deck protection		Not applicable (applies only to structures with no deck) [N]									
Type of membrane/wearing surface		Not applicable (applies only to structures with no deck) [N]									

## Weight Limits

Bypass, detour length 0.5 km = 0.3 mi		Method to determine inventory rating		No rating analysis performed [5]		Inventory rating 32.7 metric ton = 36.0 tons	
		Method to determine operating rating		No rating analysis performed [5]		Operating rating 49 metric ton = 53.9 tons	
Bridge posting		Equal to or above legal loads [5]		Design Load		M 18 / H 20 [4]	

### Functional Details

Average Daily Traffic	5535	Average daily truck traffi	4	%	Year	2009	Future average daily traffic	5500	Year	2021
Road classification	Minor Arterial (Rural) [06]		Lanes on structure	2		Approach roadway width	9.8 m = 32.2 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Waterway [5]		Lanes under structure	0		Navigation control				
Navigation vertical clearanc	0 = N/A		Navigation horizontal clearance	0 = N/A						
Minimum navigation vertical clearance, vertical lift bridge			Minimum vertical clearance over bridge roadway	10 m = 32.8 ft						
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	0 = N/A					Minimum lateral underclearance on left	0 = N/A			
Minimum Vertical Underclearance	0 = N/A		Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]						
Appraisal ratings - underclearances	N/A [N]									

### Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	0	Roadway improvement cost	0
	Length of structure improvement	66 m = 216.5 ft	Total project cost	1000
	Year of improvement cost estimate	2002		
	Border bridge - state		Border bridge - percent responsibility of other state	
	Border bridge - structure number			

## Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Not Applicable [N]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	48.1
Culverts	Large spalls, heavy scaling, wide cracks, considerable efflorescence or opened construction joint permitting loss of backfill. Considerable settlement or misalignment. Considerable scouring or erosion at curtain walls, wingwalls or pipes. Metal culverts have significant distortion and deflection throughout, extensive corrosion or deep pitting. [4]		
Traffic safety features - railings			
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	August 2008 [0808]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	