

# HistoricBridges.org - National Bridge Inventory Data Sheet

2003 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]		Mercer County [085]		Hempfield [33784]		HEMPFIELD TOWNSHIP		41-25-33 = 41.425833		080-22-26 = - 80.373889	
434006006019940		Highway agency district 1		Owner State Highway Agency [01]		Maintenance responsibility		State Highway Agency [01]			
Route 0		SR 4006,WILLIAMSON		Toll On free road [3]		Features intersected OVER LT SHENANGO RIVER					
Design - main		Aluminum, Wrought Iron or Cast Iron [9]		Design - approach		Kilometerpoint 0 km = 0.0 mi					
1		Truss - Thru [10]		0		Other [00]		Year built 1898		Year reconstructed N/A [0000]	
								Skew angle 0		Structure Flared	
								Historical significance Bridge is eligible for the NRHP. [2]			
Total length 38.4 m = 126.0 ft		Length of maximum span 37.8 m = 124.0 ft		Deck width, out-to-out 4.3 m = 14.1 ft		Bridge roadway width, curb-to-curb 3.9 m = 12.8 ft					
Inventory Route, Total Horizontal Clearance 3.9 m = 12.8 ft		Curb or sidewalk width - left 0.1 m = 0.3 ft		Curb or sidewalk width - right 0.1 m = 0.3 ft							
Deck structure type		Open Grating [3]									
Type of wearing surface											
Deck protection											
Type of membrane/wearing surface											

## Weight Limits

Bypass, detour length		Method to determine inventory rating		Load Factor(LF) [1]		Inventory rating	
0.5 km = 0.3 mi		Method to determine operating rating		Load Factor(LF) [1]		Operating rating	
Bridge posting				Design Load			

### Functional Details

Average Daily Traffic	3641	Average daily truck traffi	17	%	Year	2003	Future average daily traffic	5097	Year	2022
Road classification	Collector (Urban) [17]	Lanes on structure	1		Approach roadway width	4.9 m = 16.1 ft				
Type of service on bridge	Highway [1]	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	0 m = 0.0 ft				Minimum vertical clearance over bridge roadway	3.04 m = 10.0 ft				
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	99.9 = Unlimited				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	522000	Roadway improvement cost	224000
	Length of structure improvement	61 m = 200.1 ft	Total project cost	1028000
	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	<input type="text" value="Posted for load [P]"/>	Appraisal ratings - structural	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - superstructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - substructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - deck	<input type="text" value="Poor [4]"/>		
Scour	<input type="text" value="Bridge is scour critical; bridge foundations determined to be unstable. [3]"/>		
Channel and channel protection	<input type="text" value="Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Superior to present desirable criteria [9]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="21.5"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text"/>		
Inspection date	<input type="text" value="May 2002 [0502]"/>	Designated inspection frequency	<input type="text" value="12"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="July 2001 [0701]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>