

# HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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

Iowa [19]	Lee County [111]	Unknown [00000]	650604	40-27-50 = 40.463889	091-34-10 = - 91.569444
603980	Highway agency district 5	Owner Local Toll Authority [32]	Maintenance responsibility	Local Toll Authority [32]	
Route 27	IA 27	Toll On free road [3]	Features intersected	DES MOINES RIVER (TOLL)	
Design - main Steel [3]	Design - approach Steel [3]	Kilometerpoint 0 km = 0.0 mi	Year built 1937	Year reconstructed	N/A [0000]
3	Truss - Thru [10]	6	Stringer/Multi-beam or girder [02]	Skew angle 0	Structure Flared
			Historical significance	Bridge is eligible for the NRHP. [2]	
Total length 232.6 m = 763.2 ft	Length of maximum span 69.5 m = 228.0 ft	Deck width, out-to-out 7.2 m = 23.6 ft	Bridge roadway width, curb-to-curb	6.6 m = 21.7 ft	
Inventory Route, Total Horizontal Clearance 6.7 m = 22.0 ft	Curb or sidewalk width - left 0.3 m = 1.0 ft	Curb or sidewalk width - right	0.3 m = 1.0 ft		
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

## Weight Limits

Bypass, detour length 6.4 km = 4.0 mi	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	16.9 metric ton = 18.6 tons
	Method to determine operating rating	No rating analysis performed [5]	Operating rating	24 metric ton = 26.4 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

### Functional Details

Average Daily Traffic	3360	Average daily truck traffi	35	%	Year	2007	Future average daily traffic	6068	Year	2027
Road classification	Principal Arterial - Other (Rural) [02]		Lanes on structure	2		Approach roadway width	9.1 m = 29.9 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	4.24 m = 13.9 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]		
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	755000	Roadway improvement cost	75000
	Length of structure improvement	232.6 m = 763.2 ft	Total project cost	1132000
	Year of improvement cost estimate			
	Border bridge - state	Unknown [297]	Border bridge - percent responsibility of other state	
	Border bridge - structure number	25293		

## 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	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		
Scour	Scour calculation/evaluation has not been made. [6]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	32.1
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	October 2007 [1007]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [N00]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2007 [1007]
Other special inspection	Unknown [N00]	Other special inspection date	

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## Basic Information

Missouri [29]	Clark County [045]	Des Moines [19234]	S 5 T 65 N R 6 W	40-27-36 = 40.460000	091-34-00 = - 91.566667
25293	Highway agency district: 3	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 0000B		RT B S	Toll On free road [3]	Features intersected DES MOINES RVR	
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0 km = 0.0 mi
3	Truss - Thru [10]	6	Stringer/Multi-beam or girder [02]	Year built	1937
				Year reconstructed	N/A [0000]
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]
Total length	232.6 m = 763.2 ft	Length of maximum span	69.5 m = 228.0 ft	Deck width, out-to-out	7.2 m = 23.6 ft
Inventory Route, Total Horizontal Clearance	6.6 m = 21.7 ft	Curb or sidewalk width - left	0.2 m = 0.7 ft	Curb or sidewalk width - right	0.2 m = 0.7 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface					
Deck protection					
Type of membrane/wearing surface					

## Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	17.1 metric ton = 18.8 tons
6.4 km = 4.0 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	24.3 metric ton = 26.7 tons
	Bridge posting	00.1 - 09.9 % below [4]	Design Load	M 13.5 / H 15 [2]

### Functional Details

Average Daily Traffic	451	Average daily truck traffi	10	%	Year	2007	Future average daily traffic	563	Year	2028
Road classification	Local (Rural) [09]		Lanes on structure	2		Approach roadway width	9.1 m = 29.9 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						Minimum vertical clearance over bridge roadway	4.22 m = 13.8 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	4201000	Roadway improvement cost	420000
	Length of structure improvement	23.3 m = 76.4 ft	Total project cost	6301000
	Year of improvement cost estimate	2008		
	Border bridge - state	Unknown [197]	Border bridge - percent responsibility of other state	1
	Border bridge - structure number	603980		

## Inspection and Sufficiency

Structure status	<input type="text" value="Posted for load [P]"/>	Appraisal ratings - structural	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present desirable criteria [8]"/>
Condition ratings - substructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]"/>		
Channel and channel protection	<input type="text" value="Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Equal to present minimum criteria [6]"/>	Status evaluation	<input type="text" value="Functionally obsolete [2]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="44"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
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="October 2007 [1007]"/>	Designated inspection frequency	<input type="text" value="24"/> 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="October 2007 [1007]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>