

HistoricBridges.org - National Bridge Inventory Data Sheet

2011 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

Ohio [39]	Morrow County [117]	Cardington [12098]	.80 MI.E.OF INT.OF TR141	40-35-12 = 40.586667	082-57-18 = - 82.955000
5931339	Highway agency district 6	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!	TR138	Toll On free road [3]	Features intersected SHAW CREEK		
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	1887	Year reconstructed 1998
			Skew angle	0	Structure Flared
			Historical significance	Bridge is not eligible for the NRHP. [5]	
Total length	15.5 m = 50.9 ft	Length of maximum span	14.9 m = 48.9 ft	Deck width, out-to-out	4.3 m = 14.1 ft
Inventory Route, Total Horizontal Clearance	4.2 m = 13.8 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Wood or Timber [8]				
Type of wearing surface	Wood or Timber [7]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	1.9 metric ton = 2.1 tons
0.5 km = 0.3 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	2.6 metric ton = 2.9 tons
	Bridge posting		Design Load	

Functional Details

Average Daily Traffic	100	Average daily truck traffi	0	%	Year	1992	Future average daily traffic	139	Year	2027
Road classification	Local (Rural) [09]		Lanes on structure	1		Approach roadway width	5.5 m = 18.0 ft			
Type of service on bridge	Highway [1]		Direction of traffic	One lane bridge for 2 - way traffic [3]		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	99.99 m = 328.1 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

Bridge improvement cost

Roadway improvement cost

Length of structure improvement

Total project cost

Year of improvement cost estimate

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 corrective action [3]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Better than present minimum criteria [7]"/>
Condition ratings - substructure	<input type="text" value="Poor [4]"/>	Appraisal ratings - deck geometry	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - deck	<input type="text" value="Satisfactory [6]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour conditions; field review indicates action is required. [4]"/>		
Channel and channel protection	<input type="text" value="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	<input type="text" value="Equal to present minimum criteria [6]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="24.8"/>
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="October 2010 [1010]"/>	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="October 2009 [1009]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

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5

9

3

1

3

3

9

1
Structure File Number7

Bridge Number

MRW T0138 01465 07

CARDINGTON TWP

Date Built

07/01/1887 - 1998

District

06

Bridge Type

WROUGHT IRON/TRUSS/THRU

Type Service

1

15 SHAW CREEK

MRW

DECK		Out/Out 14.2		THCK = 0.0		
1. Floor	2-LAMINATED TIMBER STRIP	8	2	2. Wearing Surface	7-TIMBER	41
3. Curbs, Sidewalks, Walkways		N-NONE		W.S. Date =		
		N-NONE	9	4. Median		42
5. Railing	6-STEEL POST & STEEL PAN	10	2	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints		N-NONE	11	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=49				
9. Alignment		12	2	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
11. Diaphragms or Crossframes		TOT.LGTH=51		12. Joists/Stringers		46
			2	14. Floor Beam Connections		47
13. Floor Beams			2	16. Diagonals		48
15. Verticals			2	18. Top Chord		49
17. End Posts			2	20. Lower Lateral Bracing		50
19. Lower Chord				22. Sway Bracing		51
21. Top Lateral Bracing				A-SLIDING (OTHER)		
23. Portals				24. Bearing Devices		N-NONE
25. Arch				26. Arch Columns or Hangers		
27. Spandrel Walls				TYPE = N-NONE		
29. Pins/Hangers/Hinges				DATE = 01/01/1964		
31. Live Load Response			S	32. Summary		
SUBSTRUCTURE		1-STONE		PIERS=0		SPANS = 1
33. Abutments		1-STONE	3	34. Abutment Seats		
35. Piers		TYPE = N-NONE		36. Pier Seats		
37. Backwalls			1	ABUTMENT:=UNKNOWN / UNKNOWN		
39. Fenders and Dolphins				40. Scour		4-STABLE: ACTION REQUIRE
41. Slope Protection		N-NONE		42. Summary		DIVE DT=N/A
CULVERTS						
43. General				44. Alignment		
45. Shape				46. Seams		
47. Headwalls or Endwalls				48. Scour		
49.				50. Summary		
CHANNEL				N-NONE		
51. Alignment			3	52. Protection		
53. Waterway Adequacy			1	54. Summary		
APPROACHES						
55. Pavement		2-BITUMINOUS	1	56. Approach Slabs		
57. Guardrail		N-NONE		58. Relief Joints		
59. Embankment		BRDG.WIDTH=13.8	3	60. Summary		PCT.LEGAL=40
GENERAL				ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights				62. Warning Signs		MAINT.RESP: 3-COUNTY
63. Sign Supports		MVC ON=9999		64. Utilities		
65. Vertical Clearance		UND=0000	N	66. General Appraisal & Operational Status		

67. INSPECTED BY

68. REVIEWED BY

4

8

5

7

3

76 PE

SIGNED

D

H

G

78 INITIALS

SIGNED

4

5

8

5

8

81 PE

SIGNED

L

R

B

83 INITIALS

DOT 2852

DECK AREA 721

Date

1

2

2

8

1

1

86

91

0

0

0

0

0

N

N

N

92

69 Survey

99

Date

0

3

0

6

1

2

100

105

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5	9	3	1	3	3	9
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1 Structure File Number 7

Bridge Number **MRW** **T0138** **01465** **07**
CO ROUTE UNIT

Date Built **07/01/1887 - 1998**

District **06** Bridge Type **WROUGHT IRON/TRUSS/THRU** Type Service **1** **1** **5** **SHAW CREEK**

00 NO REMARKS FOUND FOR THIS INSPECTION.

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Unit of Measure: English Structure File Number 5931339 Sufficiency Rating: 24.8 SD			Bridge Inventory Information Inventory Bridge Number:MRW T0138 01465 07 ON SHAW CREEK			Report Date 08/21/2012 BM-191 Page: 1 of 2 BR. Type WROUGHT IRON / TRUSS / THRU Date of Last Inventory Update: 03/20/2012		
District: 06 County MORROW			(101) Location: .80 MI.E.OF INT.OF TR141			(102) Facility Carried: TR138		
(2)FIPS Code: CARDINGTON TWP			(103) Route On Bridge: TOWNSHIP			(104) Route Under Bridge: NON-HIGHWAY		
(9) Direction of Traffic: ONE LANE FOR 2-WAY TRAFFIC(10) Temporary: N			(11)Truck Network: N			(12)Parallel: N		
(95) Insp: COUNTY (96) Maint: COUNTY (97) Routine: COUNTY			(100) Type Serv: (On): HIGHWAY			(Under): WATERWAY		
Inventory Route Data			(63) Main Spans Number: 1			Type: WROUGHT IRON / TRUSS / THRU		
(3) Route On/Under: ON Hwy Sys: COUNTY/TOWNSHIP HIGHWAY			Approach Spans Number: 0			Type: NONE / NONE / NONE		
Route No.: T0138 Dir:			Total Spans: 1			(65) Max Span: 49 Ft		
Des: MAINLINE Pref:						(66) Overall Leng: 51 Ft		
(4) Feature Intersected: SHAW CREEK			(70) Substructure			(71) Foundation and Scour Information		
(5) County: CAR Mileage: 01465 Special Desig: 07			Abut-Rear Matl: STONE			Type: GRAVITY		
(6) Avg. Daily Traffic(ADT): 100 (7) ADT Year: 1992			Abut-Fwd Matl: STONE			Type: GRAVITY		
(8) Truck Traf: 2 (14) NHS: NO - X (15) Corridor: N			Pier-Pred Matl: NONE			Type: NONE		
(16) Functional Class: LOCAL ROAD-RURAL (19) Strahnt: Not Applicable			Pier-Other Matl: NONE			Type: NONE		
			Pier-Other Matl: NONE			Type: NONE		
Intersected Route Data			No of Piers Predominate: NN			Other: NN		
(22) Route On/Under:			(86) Stream Velocity: UUU			(74) Scour: STABLE: ACTION REQUIRED TO PROTECT FND		
Route No.: Dir:			(189) Dive: N Freq: 0			Probe: Y Freq: 12		
Des: Pref:			(189) Date of last Dive Insp:			(75) Chan Prot: NONE		
(23) Feature Intersected:								
(24) County: Mileage:								
Special Desig:								
(25) Avg. Daily Traffic(ADT): 0 (26) ADT Year:								
(27) Truck Traf: 0 (28) NHS: - (29) Corridor:								
(30) Functional Class:								
(36) Strahnt: Not Applicable								
Clearance On the Bridge			(156) Min. Horiz Under Clear:			NC: 0.0 Ft		
(154) Min Hriz on Bridge:						Card: 0.0 Ft		
NC: 0.0 Ft Card: 13.8 Ft			(157) Prac Max Vrt Under Clear:			0.0 Ft		
(155) Prac Max Vert On Brg:								
9999.9 Ft			(77) Min Vert Under Clear:			NC: 0.0 Ft		
(67) Min Vrt Clr On Brg:						Card: 0.0 Ft		
NC: 0.0 Ft Card: 9999.9 Ft			(78) Min Lat Under Clear:			NC: 0.0 / 0.0 Ft		
(80) Min Latl Clr:						Card: 0.0 / 0.0 Ft		
NC: 0.0 / 0.0 Ft Card: 0.0 / 0.0 Ft								
(81) Vrt Clr Lft:								
0.0 Ft								
Structure Information			Load Rating Information			(88-89) Appraisal		
(38) Bypass Length: 03 Miles			(48) Design Load: UNKNOWN [DEFAULT]			(Including calculated Items)		
(39) Latitude: 40 Deg 35.2 Min Longitude: 82 Deg 57.3 Min			(83) Operating: 3 Ton					
(40) Toll: ON FREE ROAD			Inventory: 2 Ton					
(41) Date Built: 07/01/1887 (42) Major Rehabilitation: 01/01/1998			Ohio Percent of Legal Load 40			(88) Waterway Adequacy 6		
(43) No. Lanes On: 1 No. Lanes Under: 0			Year of Rating: 2011			(89) Approach Alignment 7		
(44) Horiz Curve: Deg. Min. (45) Skew: 0 Deg			(84) Analysis: LOAD FACTOR (LF)			Calc Gen Appraisal: 3		
(49) App. Rdw Width: 18 Ft (50) Brg. Rdw Width: 13.8 Ft			(85) Rate Soft: OTHER Analyzed by: DHT			Calc Deck Geometry: 5		
(51) Deck Width: 14.2 Ft Deck Area: 721 Sq. Ft			Analysis on Bars: NOT ON BARS [DEFAULT]			Calc Underclearance: N		
(52) Median Type: NONE / NON BARRIE / NO JOINT								
(53) Bridge Median: NO MEDIAN								
(54) Sidewalks:								
(left) 0 Ft (right) 0 Ft								
(55) Type Curb or Sidewalks:								
(Left) Matl: NONE Type: NONE								
(Right) Matl: NONE Type: NONE								
(56) Flared: N (57) Composite: non-composite								
(58) Railing: STEEL POST & STEEL PANEL (DECORATIVE)								
(59) Deck Drainage: OVER THE SIDE (W/O DRIP STRIP)								
(60) Deck Type: LAMINATED TIMBER STRIP								
(61) Deck Protection: External: NONE								
Internal: NONE								
(62) Wearing Surface: TIMBER								
Thickness: 0.0 in (119) Date of Wearing Surface:								
Slope Protection: NONE-NATURAL PROTECTION(GRASS,BUSHES)								
			Pay Wt: 0 pounds			Prime Loc: UNKNOWN		
			Bridge Dedicated Name:					

Unit of Measure: **English**
Structure File Number **5931339**
Sufficiency Rating: **24.8 SD**

Bridge Inventory Information
Inventory Bridge Number:**MRW T0138 01465 07**
ON SHAW CREEK

Report Date **08/21/2012** BM-191 Page: 2 of 2
BR. Type **WROUGHT IRON/TRUSS/THRU**
Date of Last Inventory Update: **03/20/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NOT HISTORIC (69) NBIS: Y (---) Hist Builder: MASSILLON BRIDGE COMPANY Hist Build Year: 1887 (69) Hist Type: PRATT (PINNED) (161) Special Features (see below): (105) Border Bridge State: Resp % (106) SFN:				(142) Fabricator: MASSILLON BRG (143) Contractor: MASSILLON BRG (144) Ohio Original Construction Project No.: 0000PC (---) Microfilm Reel: (151) Standard Drawing: Aperture Cards: Orig: N Repair: N Fabr: N Plan Information Available: 1PLAN INFORMATION AVAILABLE (153) Repair Projects			
Proposed Improvements		Programming Info					
(90) Type Work: -		PID Number:					
		PID Status:					
(90) Length: Ft		PID Date:		1. / MMM 2. / 020 3.			
(90) Bridge Cost (\$1000s): 0				4. 5. 6.			
(90) Roadway Cost (\$1000s): 0				7. 8. 9.			
(90) Total Project Cost (\$1000s): 0		(90) Year:		10.			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 6	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: N	(161) Lighting: N				
(I-32) Superstructure: 6	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Gas: N	Fencing: N				
(I-42) Substructure: 4	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: N	Glare-Screen: N				
(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Telephone: N	Splash-Guard: N				
(I-54) Channel: 5	In Depth: 0 DOES NOT MEET CURRENT STANDARDS	TV Cable: N	Catwalks: N				
(I-60) Approaches: 4	Fracture Critical: N NONE N/A	Water: N	Other-Feat: N				
(I-66) General Appraisal: 4	Scour Critical: N NONE N/A	Other: N	(184) Signs-on: N				
(I-66) Operational Status: P	Critical Findings: N NONE N/A		Signs-Under: N				
Inspection Date: 12/28/2011	Insp. Update Date: 03/13/2012		(162) Fence-Ht: 0.0 Ft				
(94) Desig Insp Freq: 12 Months			(163) Noise Barr: N				
SFNs Replacing this retired bridge: -							
SFNs That where replaced by this bridge: -							
This bridge was retired and copied to:							
The bridge was copied from:				INV Field Bridge Marker: MRW-T0138-01465-07 INT Field Bridge Marker: ---			

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
		0						

(*) Percentages Should add to 100%