

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] .20 MI.E.OF INT. OF TR134 40-34-36 = 40.576667 082-57-12 = - 82.953333

5931398 Highway agency district 6 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! CLOSED Toll On free road [3] Features intersected SHAW CREEK

Design - main Steel [3] Design - approach Other [00] Kilometerpoint 0 km = 0.0 mi

1 Girder and floorbeam system [03] 0 Other [00] Year built 1922 Year reconstructed 1999

Skew angle 0 Structure Flared

Historical significance Bridge is not eligible for the NRHP. [5]

Total length 19.8 m = 65.0 ft Length of maximum span 19.2 m = 63.0 ft Deck width, out-to-out 6.1 m = 20.0 ft Bridge roadway width, curb-to-curb 5.8 m = 19.0 ft

Inventory Route, Total Horizontal Clearance 5.8 m = 19.0 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 0.3 km = 0.2 mi Method to determine inventory rating No rating analysis performed [5] Inventory rating 32.4 metric ton = 35.6 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 40.5 metric ton = 44.6 tons

Bridge posting Equal to or above legal loads [5] Design Load

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

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="Open, no restriction [A]"/>	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="Fair [5]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present desirable criteria [8]"/>
Condition ratings - substructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - deck geometry	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		

Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour condition. [5]"/>
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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]"/>
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Appraisal ratings - water adequacy	<input type="text" value="Equal to present desirable criteria [8]"/>	Status evaluation	<input type="text"/>
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Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="83"/>
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Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>
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Traffic safety features - railings	<input type="text"/>
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Traffic safety features - transitions	<input type="text"/>
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Traffic safety features - approach guardrail	<input type="text"/>
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Traffic safety features - approach guardrail ends	<input type="text"/>
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Inspection date	<input type="text" value="October 2010 [1010]"/>	Designated inspection frequency	<input type="text" value="12"/>	Months
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Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
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Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="October 2009 [1009]"/>
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Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>
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STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

5	9	3	1	3	9	8
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Bridge Number **MRW T0141 00225 08** CARDINGTON TWP
CO ROUTE UNIT

Date Built **07/01/1922 - 1999**

District **06** Bridge Type **STEEL/GIRDER/THRU**

Type Service **1 15 SHAW CREEK**

MRW

DECK		Out/Out 20.0	2	THCK = 0.0	2
1. Floor	2-LAMINATED TIMBER STRIP	8	2	2. Wearing Surface	7-TIMBER 41
		N-NONE		W.S. Date =	
3. Curbs, Sidewalks, Walkways		N-NONE	9	4. Median	42
5. Railing		0-OTHER	10	6. Drainage	0-OTHER-NATURAL(OFF THE 43
7. Expansion Joints		N-NONE	11	8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=63	1		
9. Alignment			12	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL 45
		TOT.LGTH=65			
11. Diaphragms or Crossframes			13	12. Joists/Stringers	46
13. Floor Beams			14	14. Floor Beam Connections	47
15. Verticals			15	16. Diagonals	48
17. End Posts			16	18. Top Chord	49
19. Lower Chord			17	20. Lower Lateral Bracing	50
21. Top Lateral Bracing			18	22. Sway Bracing	51
23. Portals			19	24. Bearing Devices	A-SLIDING (OTHER) N-NONE 52
25. Arch			20	26. Arch Columns or Hangers	53
27. Spandrel Walls			21	28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1950 54
29. Pins/Hangers/Hinges			22	30. Fatigue Prone Connections	55
31. Live Load Response			23	32. Summary	56
SUBSTRUCTURE		2-CONCRETE	2	PIERS=0	SPANS = 1
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats	57
35. Piers	TYPE = N-NONE	25		36. Pier Seats	58
37. Backwalls			26	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN 59
39. Fenders and Dolphins			27	40. Scour	5-STABLE: SCOUR WITHIN L 60
41. Slope Protection	N-NONE	28		42. Summary	DIVE DT=N/A 62
CULVERTS					
43. General			29	44. Alignment	63
45. Shape			30	46. Seams	64
47. Headwalls or Endwalls			31	48. Scour	65
49.			32	50. Summary	66
CHANNEL					
51. Alignment			33	52. Protection	N-NONE 67
53. Waterway Adequacy			34	54. Summary	68
APPROACHES					
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs	69
57. Guardrail	N-NONE	36		58. Relief Joints	70
59. Embankment	BRDG.WIDTH=19.1	37	2	60. Summary	PCT.LEGAL=100 71
GENERAL					
61. Navigation Lights			38	62. Warning Signs	ROUTINE.RESP: 3-COUNTY MAINT.RESP: 3-COUNTY 72
63. Sign Supports	MVC ON=9999 UND=0000		39	64. Utilities	73
65. Vertical Clearance			40	66. General Appraisal & Operational Status	74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

4 8 5 7 3
76 PE

D H G
78 INITIALS

SIGNED

4 5 8 5 8
81 PE

L R B
83 INITIALS

DOT 2852

DECK AREA 1,302

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

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

5	9	3	1	3	9	8
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1 Structure File Number 7

Bridge Number **MRW T0141 00225 08**
CO ROUTE UNIT

Date Built 07/01/1922 - 1999

District **06** Bridge Type **STEEL/GIRDER/THRU**

Type Service **1 15**

SHAW CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.

Unit of Measure: **English**
Structure File Number **5931398**
Sufficiency Rating: **61.8**

Bridge Inventory Information
Inventory Bridge Number: **MRW T0141 00225 08**
ON SHAW CREEK

Report Date **08/21/2012** **BM-191** Page: 1 of 2
BR. Type STEEL / GIRDER / THRU
Date of Last Inventory Update: **03/20/2012**

District: **06** County **MORROW** (101) Location: **.20 MI.E.OF INT. OF TR134** (102) Facility Carried: **CLOSED**
(2) FIPS Code: **CARDINGTON TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **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
(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY** (63) Main Spans Number: 1 Type: **STEEL / GIRDER / THRU**
Route No.: **T0141** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **63** Ft (66) Overall Leng: **65** Ft

(4) Feature Intersected: **SHAW CREEK** (70) Substructure (71) Foundation and Scour Information
(5) County: **CAR** Mileage: **00225** Special Desig: **08** Abut-Rear Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(6) Avg. Daily Traffic(ADT): **100** (7) ADT Year: **1992** Abut-Fwd Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(8) Truck Traf: **4** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable** Pier-Other Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**

Intersected Route Data
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **NN** Other: **NN** Other: **NN**
Route No.: Dir: Des: Pref: (86) Stream Velocity: **UUU** (74) Scour: **STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE**
(23) Feature Intersected: (189) Dive: **N Freq: 0** Probe: **Y Freq: 12** (75) Chan Prot: **NONE**
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: (152) Drainage Area: **UUU** Sq Mi

(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 Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **0.0** Ft
(157) Prac Max Vrt Under Clear: **0.0** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **0.0** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **19.1** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **9999.9** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information
(38) Bypass Length: **02** Miles
(39) Latitude: **40 Deg 34.6 Min** Longitude: **82 Deg 57.2 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1922** (42) Major Rehabilitation: **01/21/1999**
(43) No. Lanes On: **2** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **20** Ft (50) Brg. Rdw Width: **19.1** Ft
(51) Deck Width: **20.0** Ft Deck Area: **1302** Sq. Ft
(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**

Load Rating Information (88-89) Appraisal
(48) Design Load: **UNKNOWN [DEFAULT]** (Including calculated Items)
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **100** (88) Waterway Adequacy **8**
Year of Rating: **2011** (89) Approach Alignment **8**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **5**
(85) Rate Soft: **OTHER** Analyzed by: **DHT** Calc Deck Geometry: **4**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information
(109) Approach Guardrail: **NONE**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **FAIR**

Culvert Information
(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

General Information
(121) Main Member **RIVETED BUILT-UP STEEL** (122) Moment Plate: **NONE**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **SLIDING (OTHER)/NONE**
(126) Navigation: **Control- N** Vert Clr: **0.0** Ft Horiz Clear: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2010-08-18**
(138) Long Member: **TWO GIRDER BRIDGE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **STRAIGHT**
Railing: **OTHER**
Paint: **OTHER**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **5931398**
 Sufficiency Rating: **61.8**

Bridge Inventory Information
 Inventory Bridge Number: **MRW T0141 00225 08**
ON SHAW CREEK

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

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NOT HISTORIC		(69) NBIS: Y		(142) Fabricator: OHIO BRIDGE CO			
(---) Hist Builder: NONE N/A		Hist Build Year: 1922		(143) Contractor: OHIO BRIDGE CO			
(69) Hist Type: THRU				(144) Ohio Original Construction Project No.: 0000PC			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: N Repair: N Fabr: N			
(90) Type Work: -		PID Number:		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date:		1. / 020	2. / MMM	3. / 004	
(90) Roadway Cost (\$1000s): 0				4. / 080	5.	6.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.	8.	9.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033		10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 5	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: N		(161) Lighting: N			
(I-32) Superstructure: 5	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Gas: N		Fencing: N			
(I-42) Substructure: 6	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: 6	Fracture Critical: N NONE N/A	Water: N		Other-Feat: N			
(I-66) General Appraisal: 5	Scour Critical: N NONE N/A	Other: N		(184) Signs-on: N			
(I-66) Operational Status: A	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-T0141-00225-08			
				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%