HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportion 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 TR128	40-37-30 = 40.625000	082-55-06 = -82.918333

5931614	Highway agency district 6	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	#Num!		TR129	Toll	On free road [3]

Features intersected: WHETSTONE CREEK

Design - main	Aluminum, Wrought Iron or Cast Iron [9]	Design - approach	
1	Truss - Thru [10]	0	Other [00]

Kilometerpoint: 0 km = 0.0 mi

Year built: 1887 Year reconstructed: 1969

Skew angle: 0 Structure Flared:

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

Total length	25.9 m = 85.0 ft	Length of maximum span	25.6 m = 84.0 ft	Deck width, out-to-out	4.3 m = 14.1 ft	Bridge roadway width, curb-to-curb	4.2 m = 13.8 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: 0.5 km = 0.3 mi

Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	2.6 metric ton = 2.9 tons
Method to determine operating rating	No rating analysis performed [5]	Operating rating	3.6 metric ton = 4.0 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	5.8 m = 19.0 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	4.37 m = 14.3 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	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Fair [5]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
Channel and channel protection	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	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	21.7

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	October 2010 [1010]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2009 [1009]
Other special inspection	Not needed [N]	Other special inspection date	

District: **06** County **MORROW**
(101) Location: **.20 MI.E.OF INT.OF TR128** (102) Facility Carried: **TR129**
(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

(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY**
Route No.: **T0129** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **WHETSTONE CREEK**
(5) County: **CAR** Mileage: **00014** Special Desig: **18**
(6) Avg. Daily Traffic(ADT): **100** (7) ADT Year: **1992**
(8) Truck Traf: **2** (14) NHS: **NO** - **X** (15) Corridor: **N**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable**

Intersected Route Data

(22) Route On/Under: Hwy Sys:
Route No.: Dir: Des: Pref:
(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

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **13.7** Ft
(155) Prac Max Vert On Brg: **14.3** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **14.3** 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: **03** Miles
(39) Latitude: **40 Deg 37.5 Min** Longitude: **82 Deg 55.1 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1887** (42) Major Rehabilitation: **01/01/1969**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **19** Ft (50) Brg. Rdw Width: **13.7** Ft
(51) Deck Width: **14.1** Ft Deck Area: **1195** 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**
(58) Railing: **OTHER**
(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)**

(63) Main Spans Number: **1** Type: **WROUGHT IRON** / **TRUSS** / **THRU**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **1** (65) Max Span: **84** Ft (66) Overall Leng: **85** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **GRAVITY**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Abut-Fwd Matl: **CONCRETE AND STONE**	Type: **GRAVITY**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Pred Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
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)**
No of Piers Predominate: **NN**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **UUU** (74) Scour: **STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE**
(189) Dive: **N Freq: 0** Probe: **Y** Freq: **12** (75) Chan Prot: **NONE**
(189) Date of last Dive Insp: (152) Drainage Area: **UUU** Sq Mi

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

Load Rating Information

(48) Design Load: **UNKNOWN [DEFAULT]**
(83) Operating: **4** Ton
Inventory: **3** Ton
Ohio Percent of Legal Load **30**
Year of Rating: **2011**
(84) Analysis: **LOAD FACTOR (LF)**
(85) Rate Soft: **OTHER** Analyzed by: **DHT**
Analysis on Bars: **NOT ON BARS [DEFAULT]**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **6**
(89) Approach Alignment **4**
Calc Gen Appraisal: **3**
Calc Deck Geometry: **5**
Calc Underclearance: **N**

Approach Information

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

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 **N/A (CULVERTS, TRUSSES, ETC.)** (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: **2010-08-12**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **NONE** (139) Framing: **NONE**
Railing: **OTHER**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **NONE**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **MT VERNON BRIDGE COMPANY** Hist Build Year: **1887**
(69) Hist Type: **PRATT (PINNED)**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2033**

Programming Info

PID Number:
PID Status:
PID Date:

Original Plans Information

(142) Fabricator: **MT VERNON BRDG**
(143) Contractor: **MT VERNON BRDG**
(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

1. **/ MMM**	2. **/ 039**	3.
4.	5.	6.
7.	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**5**
(I-32) Superstructure:	**4**
(I-42) Substructure:	**3**
(I-50) Culvert:	
(I-54) Channel:	**7**
(I-60) Approaches:	**4**
(I-66) General Appraisial:	**3**
(I-66) Operational Status:	**P**
Inspection Date:	**12/29/2011**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**0 DOES NOT MEET CURRENT STANDARDS**
Transitions:	**0 DOES NOT MEET CURRENT STANDARDS**
Guardrail:	**0 DOES NOT MEET CURRENT STANDARDS**
Rail Ends:	**0 DOES NOT MEET CURRENT STANDARDS**
In Depth:	**0 DOES NOT MEET CURRENT STANDARDS**
Fracture Critical:	**N NONE N/A**
Scour Critical:	**N NONE N/A**
Critical Findings:	**N NONE N/A**
Insp. Update Date:	**03/13/2012**

Utilities

(46) Electric:	**N**
Gas:	**N**
Sanitary Sewer:	**N**
Telephone:	**N**
TV Cable:	**N**
Water:	**N**
Other:	**N**

Special Features

(161) Lighting:	**N**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**N**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(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-T0129-00014-18**
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%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

5 9 3 1 6 1 4
1 Structure File Number 7

Bridge Number **MRW** (CO) **T0129** (ROUTE) **00014** (UNIT) **18** **CARDINGTON TWP** **Date Built 07/01/1887 - 1969**

District **06** Bridge Type **WROUGHT IRON/TRUSS/THRU** Type Service **1** **15 WHETSTONE CREEK** **MRW**

DECK Out/Out 14.1		2	THCK = 0.0	2
1. Floor 2-LAMINATED TIMBER STRIP 8			2. Wearing Surface 7-TIMBER 41	
N-NONE			W.S. Date =	
3. Curbs, Sidewalks, Walkways N-NONE 9			4. Median 42	
		3		2
5. Railing 0-OTHER 10			6. Drainage 1-OVER THE SIDE (W/O DRI 43	
7. Expansion Joints N-NONE 11			**8. Summary** 44	5
SUPERSTRUCTURE MAX.SPAN=84		2		
9. Alignment 12			10. Beams/Girders/Slab N-N/A (CULVERTS, TRUSSES 45	
TOT.LGTH=85				3
11. Diaphragms or Crossframes 13			12. Joists/Stringers 46	
		2		2
13. Floor Beams 14			14. Floor Beam Connections 47	
		2		2
15. Verticals 15			16. Diagonals 48	
		2		2
17. End Posts 16			18. Top Chord 49	
		2		
19. Lower Chord 17			20. Lower Lateral Bracing 50	
				2
21. Top Lateral Bracing 18			22. Sway Bracing 51	
		2	A-SLIDING (OTHER)	2
23. Portals 19			24. Bearing Devices N-NONE 52	
25. Arch 20			26. Arch Columns or Hangers 53	
			TYPE = N-NONE	
27. Spandrel Walls 21			28. Protective Coating System DATE = 54	
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55	
		E		4
31. Live Load Response 23			**32. Summary** 56	
SUBSTRUCTURE 3-CONCRETE AND STONE		3	PIERS=0 SPANS = 1	3
33. Abutments 2-CONCRETE 24			34. Abutment Seats 57	
35. Piers TYPE = N-NONE 25			36. Pier Seats 58	
		1	ABUTMENT:=UNKNOWN / UNKNOWN	3
37. Backwalls 26			38. Wingwalls 59	
			40. Scour 5-STABLE: SCOUR WITHIN L 60	1 1
39. Fenders and Dolphins 27				
				3
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		1	N-NONE	
51. Alignment 33			52. Protection 67	
		1		7
53. Waterway Adequacy 34			**54. Summary** 68	
APPROACHES		1		
55. Pavement 2-BITUMINOUS 35			56. Approach Slabs 69	
57. Guardrail N-NONE 36			58. Relief Joints 70	
		3		4
59. Embankment BRDG.WIDTH=13.7 37			**60. Summary** PCT.LEGAL=30 71	
GENERAL			ROUTINE.RESP: 3-COUNTY	2
61. Navigation Lights 38			62. Warning Signs MAINT.RESP: 3-COUNTY 72	
MVC ON=14.3 UND=0000				
63. Sign Supports 39			64. Utilities 73	
		1	COND STAT	
65. Vertical Clearance 40			**66. General Appraisal & Operational Status** 74	3 P

67. INSPECTED BY

SIGNED

4 8 5 7 3 (76 PE)

D H G (78 INITIALS)

68. REVIEWED BY

SIGNED

4 5 8 5 8 (81 PE)

L R B (83 INITIALS)

DOT 2852

DECK AREA 1,195

Date 1 2 2 9 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	6	1	4

1 Structure File Number 7

Bridge Number **MRW** (CO) **T0129** (ROUTE) **00014** (UNIT) **18**

Date Built 07/01/1887 - 1969

District **06** Bridge Type **WROUGHT IRON/TRUSS/THRU**

Type Service **1** **1** **5**

WHETSTONE CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.