

# 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]	North Bloomfield [56224]	.60 MI.E.OF INT.OF CR40	40-37-30 = 40.625000	082-45-00 = - 82.750000
5930669	Highway agency district 6	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!	CR29	Toll On free road [3]	Features intersected	WHETSTONE CREEK	
Design - main	Concrete [1]	Design - approach	Kilometerpoint	0 km = 0.0 mi	
1	Girder and floorbeam system [03]	0	Other [00]	Year built	1905
				Year reconstructed	N/A [0000]
				Skew angle	43
				Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]
Total length	15.5 m = 50.9 ft	Length of maximum span	14.6 m = 47.9 ft	Deck width, out-to-out	6.1 m = 20.0 ft
Inventory Route, Total Horizontal Clearance	4.9 m = 16.1 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 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	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	19.8 metric ton = 21.8 tons
0.5 km = 0.3 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	26.9 metric ton = 29.6 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	

### Functional Details

Average Daily Traffic	500	Average daily truck traffi	2	%	Year	1992	Future average daily traffic	694	Year	2027
Road classification	Minor Collector (Rural) [08]		Lanes on structure	1		Approach roadway width	6.1 m = 20.0 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	Open, no restriction [A]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of replacement [2]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	17.9
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	September 2010 [0910]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: English			Bridge Inventory Information			Report Date 08/21/2012 BM-191 Page: 1 of 2		
Structure File Number 5930669			Inventory Bridge Number:MRW C0029 04626 09			BR. Type CONCRETE / GIRDER / THRU		
Sufficiency Rating: 17.9 SD			ON WHETSTONE CREEK			Date of Last Inventory Update: 03/13/2012		
District: 06			County MORROW			(101) Location: .60 MI.E.OF INT.OF CR40		
(2)FIPS Code: NORTH BLOOMFIELD TWP						(103) Route On Bridge: COUNTY		
(9) Direction of Traffic: ONE LANE FOR 2-WAY TRAFFIC			(10) Temporary: N			(11)Truck Network: N		
(95) Insp: COUNTY			(96) Maint: COUNTY			(97) Routine: COUNTY		
						(100) Type Serv: (On): HIGHWAY		
						(12)Parallel: N		
						(Under): WATERWAY		
Inventory Route Data						(63) Main Spans Number: 1		
(3) Route On/Under: ON						Type: CONCRETE / GIRDER / THRU		
Hwy Sys: COUNTY/TOWNSHIP HIGHWAY						Approach Spans Number: 0		
Route No.: C0029 Dir:						Type: NONE / NONE / NONE		
Des: MAINLINE Pref:						Total Spans: 1		
						(65) Max Span: 48 Ft		
(4) Feature Intersected: WHETSTONE CREEK						(66) Overall Leng: 51 Ft		
(5) County: NBL Mileage: 04626 Special Desig: 09						(70) Substructure		
(6) Avg. Daily Traffic(ADT): 500 (7) ADT Year: 1992						(71) Foundation and Scour Information		
(8) Truck Traf: 10 (14) NHS: NO - X (15) Corridor: N						Abut-Rear Matl: CONCRETE AND STONE Type: GRAVITY		
(16) Functional Class: MINOR COLLECTOR-RURAL (19) Strahnt: Not Applicable						Abut-Fwd Matl: CONCRETE AND STONE Type: GRAVITY		
						Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)		
						Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)		
						Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
						Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
						Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
						Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
Intersected Route Data								
(22) Route On/Under:						No of Piers Predominate: NN		
Hwy Sys:						Other: NN		
Route No.: Dir:						Other: NN		
Des: Pref:						(86) Stream Velocity: UUU		
(23) Feature Intersected:						(74) Scour: STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE		
(24) County: Mileage: Special Desig:						Probe: Y Freq: 12		
(25) Avg. Daily Traffic(ADT): 0 (26) ADT Year:						(75) Chan Prot: NONE		
(27) Truck Traf: 0 (28) NHS: - (29) Corridor:						(189) Dive: N Freq: 0		
(30) Functional Class:						(189) Date of last Dive Insp:		
(36) Strahnt: Not Applicable						(152) Drainage Area: 006 Sq Mi		
Clearance On the Bridge						Clearance Under the Bridge		
(154) Min Hriz on Bridge: NC: 0.0 Ft Card: 16.0 Ft						(156) Min. Horiz Under Clear: NC: 0.0 Ft Card: 0.0 Ft		
(155) Prac Max Vert On Brg: 9999.9 Ft						(157) Prac Max Vrt Under Clear: 0.0 Ft		
(67) Min Vrt Clr On Brg: NC: 0.0 Ft Card: 9999.9 Ft						(77) Min Vert Under Clear: NC: 0.0 Ft Card: 0.0 Ft		
(80) Min Latl Clr: NC: 0.0 / 0.0 Ft Card: 0.0 / 0.0 Ft						(78) Min Lat Under Clear: NC: 0.0 / 0.0 Ft Card: 0.0 / 0.0 Ft		
(81) Vrt Clr Lft: 0.0 Ft								
Structure Information						Load Rating Information		
(38) Bypass Length: 03 Miles						(88-89) Appraisal		
(39) Latitude: 40 Deg 37.5 Min Longitude: 82 Deg 45.0 Min						(48) Design Load: UNKNOWN [DEFAULT]		
(40) Toll: ON FREE ROAD						(Including calculated Items)		
(41) Date Built: 07/01/1905 (42) Major Rehabilitation:						(83) Operating: 30 Ton		
(43) No. Lanes On: 1 No. Lanes Under: 0						Inventory: 22 Ton		
(44) Horiz Curve: Deg. Min. (45) Skew: 43 Deg						Ohio Percent of Legal Load 100		
(49) App. Rdw Width: 20 Ft (50) Brg. Rdw Width: 16.0 Ft						Year of Rating: 1980		
(51) Deck Width: 20.0 Ft Deck Area: 1023 Sq. Ft						(84) Analysis: ENGINEERING JUDGEMENT [DEFAULT]		
(52) Median Type: NONE / NON BARRIE / NO JOINT						(85) Rate Soft: NO SOFTWARE USED Analyzed by:		
(53) Bridge Median: NO MEDIAN						Analysis on Bars: NOT ON BARS [DEFAULT]		
(54) Sidewalks: (left) 0 Ft (right) 0 Ft						Approach Information		
(55) Type Curb or Sidewalks:						(109) Approach Guardrail: STEEL BEAM		
(Left) Matl: NONE Type: NONE						(110) Approach Pavement: BITUMINOUS		
(Right) Matl: NONE Type: NONE						(111) Grade: FAIR		
(56) Flared: N (57) Composite: non-composite						Culvert Information		
(58) Railing: REINFORCED CONCRETE PARAPET						(131) Culvert Type: NONE/NOT APPLICBLE		
(59) Deck Drainage: OTHER-NATURAL(OFF THE BRIDGE ENDS)						(127) Length: 0.0 Ft		
(60) Deck Type: REINF CONCRT (PRESTRSD, PRECAST						(129) Depth of Fill: 0.0 Ft		
(61) Deck Protection: External: NONE						(130) Headwalls: NONE		
Internal: NONE						General Information		
(62) Wearing Surface: BITUM (ASPHLT CONCRT)						(121) Main Member CONCRETE GIRDER		
Thickness: 3.9 in (119) Date of Wearing Surface: 01/01/2004						(122) Moment Plate: NONE		
Slope Protection: NONE-NATURAL PROTECTION(GRASS,BUSHES)						(169) Expansion Joint: NONE		
						(124) Bearing Devices: NONE/NONE		
						(126) Navigation: Control- N		
						Vert Clr: 0.0 Ft		
						Freq: 0		
						Date:		
						Date:		
						(135) Hinges: NOT APPLICABLE		
						(139) Framing: NONE		
						Railing: NONE		
						Paint: NONE		
						Pay Wt: 0 pounds		
						Prime Loc: NONE		
						Bridge Dedicated Name:		

Unit of Measure: **English**  
Structure File Number **5930669**  
Sufficiency Rating: **17.9 SD**

Bridge Inventory Information  
Inventory Bridge Number:**MRW C0029 04626 09**  
**ON WHETSTONE CREEK**

Report Date 08/21/2012 BM-191 Page: 2 of 2  
BR. Type **CONCRETE/GIRDER/THRU**  
Date of Last Inventory Update: **03/13/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NON-REGISTERED HISTORIC BRIDGE</b> (69) NBIS: Y (---) Hist Builder: <b>NONE N/A</b> Hist Build Year: <b>1905</b> (69) Hist Type: <b>NONE N/A</b> (161) Special Features (see below): (105) Border Bridge State: Resp % (106) SFN:				(142) Fabricator: (143) Contractor: (144) Ohio Original Construction Project No.: (---) Microfilm Reel: (151) Standard Drawing: Aperture Cards: Orig: <b>N</b> Repair: <b>N</b> Fabr: <b>N</b> Plan Information Available: <b>1PLAN INFORMATION AVAILABLE</b> (153) Repair Projects			
Proposed Improvements		Programming Info					
(90) Type Work: -		PID Number:					
		PID Status:					
(90) Length: Ft		PID Date:		1. / <b>044</b>			
(90) Bridge Cost (\$1000s): <b>0</b>				2.			
(90) Roadway Cost (\$1000s): <b>0</b>				3.			
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		4.			
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2033</b>		5.			
				6.			
				7.			
				8.			
				9.			
				10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>5</b>	Railings: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	(I-46) Electric: <b>N</b>	(161) Lighting: <b>N</b>	(I-32) Superstructure: <b>5</b>	Gas: <b>N</b>	(162) Fencing: <b>N</b>	
(I-42) Substructure: <b>3</b>	Transitions: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	(I-46) Sanitary Sewer: <b>N</b>	(162) Glare-Screen: <b>N</b>	(I-50) Culvert: <b>3</b>	Telephone: <b>N</b>	(162) Splash-Guard: <b>N</b>	
(I-54) Channel: <b>4</b>	Guardrail: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	(I-46) TV Cable: <b>N</b>	(162) Catwalks: <b>N</b>	(I-60) Approaches: <b>5</b>	Water: <b>N</b>	(162) Other-Feat: <b>N</b>	
(I-66) General Appraisal: <b>3</b>	Rail Ends: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	(I-46) Other: <b>N</b>	(184) Signs-on: <b>N</b>	(I-66) Operational Status: <b>A</b>		(162) Signs-Under: <b>N</b>	
Inspection Date: <b>11/29/2011</b>	In Depth: <b>0 DOES NOT MEET CURRENT STANDARDS</b>		(162) Fence-Ht: <b>0.0 Ft</b>			(163) Noise Barr: <b>N</b>	
(94) Desig Insp Freq: <b>12 Months</b>	Fracture Critical: <b>N NONE N/A</b>						
	Scour Critical: <b>1 MEETS CURRENT STANDARDS</b>						
	Critical Findings: <b>1 MEETS CURRENT STANDARDS</b>						
	Insp. Update Date: <b>03/13/2012</b>						
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: <b>MRW-C0029-04626-09</b>			
				INT Field Bridge Marker: <b>---</b>			

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

5930669

1

Structure File Number

7

Bridge Number

MRW C0029 04626 09

NORTH BLOOMFIELD TWP

CO

ROUTE

UNIT

Date Built

07/01/1905

District

06

Bridge Type

CONCRETE/GIRDER/THRU

Type Service

1

15 WHETSTONE CREEK

MRW

<u>DECK</u>		Out/Out 20.0		THCK = 3.9		
1. Floor	1-REINF CONCRT (PRESTRSD	8	2	2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
N-NONE				W.S. Date = 01/01/2004		
3. Curbs, Sidewalks, Walkways	N-NONE	9		4. Median		42
5. Railing	1-REINFORCED CONCRETE PA	10	2	6. Drainage	0-OTHER-NATURAL(OFF THE	43
7. Expansion Joints	N-NONE	11		8. Summary		44
<u>SUPERSTRUCTURE</u>		MAX.SPAN=48				
9. Alignment		12	2	10. Beams/Girders/Slab	5-CONCRETE GIRDER	45
TOT.LGTH=51						
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		N-NONE		
				24. Bearing Devices	N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		TYPE = N-NONE		
				28. Protective Coating System	DATE =	54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55
31. Live Load Response		23	S	32. Summary		56
<u>SUBSTRUCTURE</u>		3-CONCRETE AND STONE		PIERS=0		SPANS = 1
33. Abutments	3-CONCRETE AND STONE	24	3	34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls		26	2	ABUTMENT:=UNKNOWN / UNKNOWN		
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
<u>CULVERTS</u>						
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
<u>CHANNEL</u>				N-NONE		
51. Alignment		33	3	52. Protection		67
53. Waterway Adequacy		34	1	54. Summary		68
<u>APPROACHES</u>						
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	3	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=16.0	37	2	60. Summary	PCT.LEGAL=100	71
<u>GENERAL</u>				ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=9999    UND=0000	39		64. Utilities		73
65. Vertical Clearance		40	N	66. General Appraisal & Operational Status		74

67. INSPECTED BY

68. REVIEWED BY

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## STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

BR-86 REV 02-95

5	9	3	0	6	6	9
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Bridge Number	<b><u>MRW</u></b>	<b><u>C0029</u></b>	<b><u>04626</u></b>	<b><u>09</u></b>
	CO	ROUTE	UNIT	

Date Built 07/01/1905

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

Type Service      **1**      **15**

WHETSTONE CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.