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]	Bennington [05508]	.10 MILES E. INT CR 26	40-21-24 = 40.356667	082-49-00 = -82.816667

5931495	Highway agency district 6	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		

Route: #Num!		CR15	Toll: On free road [3]	Features intersected: BIG WALNUT CREEK	

Design - main: Concrete [1]	Design - approach:	Kilometerpoint: 0 km = 0.0 mi			
2	Arch - Deck [11]	0	Other [00]	Year built: 1924	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 36.3 m = 119.1 ft	Length of maximum span: 13.7 m = 44.9 ft	Deck width, out-to-out: 6.5 m = 21.3 ft	Bridge roadway width, curb-to-curb: 5.5 m = 18.0 ft				
Inventory Route, Total Horizontal Clearance: 5.5 m = 18.0 ft	Curb or sidewalk width - left: 0 m = 0.0 ft	Curb or sidewalk width - right: 0 m = 0.0 ft					
Deck structure type: Not applicable [N]							
Type of wearing surface: Bituminous [6]							
Deck protection: Not applicable (applies only to structures with no deck) [N]							
Type of membrane/wearing surface: Not applicable (applies only to structures with no deck) [N]							

Weight Limits

Bypass, detour length	Method to determine inventory rating: No rating analysis performed [5]		Inventory rating: 9.1 metric ton = 10.0 tons		
0.5 km = 0.3 mi	Method to determine operating rating: No rating analysis performed [5]		Operating rating: 11.7 metric ton = 12.9 tons		
	Bridge posting:		Design Load:		

Functional Details

Average Daily Traffic	700	Average daily truck traffi	2 %	Year	1992	Future average daily traffic	972	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	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	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructur	Serious [3]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
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	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	35.3

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	

District: **06** County **MORROW**
(101) Location: **.10 MILES E. INT CR 26**
(102) Facility Carried: **CR15**
(2)FIPS Code: **BENNINGTON TWP**
(103) Route On Bridge: **COUNTY**
(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.: **C0015** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **BIG WALNUT CREEK**
(5) County: **BEN** Mileage: **05120** Special Desig: **07**
(6) Avg. Daily Traffic(ADT): **700** (7) ADT Year: **1992**
(8) Truck Traf: **14** (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: **18.1** 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: **03** Miles
(39) Latitude: **40 Deg 21.4 Min** Longitude: **82 Deg 49.0 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1924** (42) Major Rehabilitation:
(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: **18.1** Ft
(51) Deck Width: **21.4** Ft Deck Area: **2540** 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: **OTHER-NATURAL(OFF THE BRIDGE ENDS)**
(60) Deck Type: **NONE**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**
Thickness: **5.9** in (119) Date of Wearing Surface: **01/01/2005**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **2** Type: **CONCRETE / ARCH / FILLED**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **2** (65) Max Span: **45** Ft (66) Overall Leng: **119** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **SPREAD FOOTING**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **SPREAD FOOTING**
Pier-Pred Matl: **CONCRETE**	Type: **GRAVITY**	Fnd: **SPREAD FOOTING**
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: **01**	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: **13** Ton
Inventory: **10** Ton
Ohio Percent of Legal Load **25**
Year of Rating: **2006**
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by:
Analysis on Bars: **NOT ON BARS [DEFAULT]**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **8**
(89) Approach Alignment **7**
Calc Gen Appraisal: **3**
Calc Deck Geometry: **2**
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: **NONE/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: **N** Freq: **0** Date:
(138) Long Member: **TWO CONCRETE ARCHES** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **NONE** (139) Framing: **NONE**
Railing: **NONE**
Pay Wt: **0** pounds Prime Loc: **NONE** Paint: **NONE**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **UNKNOWN**
Hist Build Year: **1924**
(69) Hist Type: **CLOSED SPANDREL FILLED**
(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:
(143) Contractor:
(144) Ohio Original Construction Project No.:
(---) Microfilm Reel:
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 044**	2.	3.
4.	5.	6.
7.	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**5**
(I-32) Superstructure:	**3**
(I-42) Substructure:	**3**
(I-50) Culvert:	
(I-54) Channel:	**4**
(I-60) Approaches:	**4**
(I-66) General Appraisial:	**3**
(I-66) Operational Status:	**P**
Inspection Date:	**10/31/2011**
(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:	**1 MEETS CURRENT STANDARDS**
Critical Findings:	**1 MEETS CURRENT STANDARDS**
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-C0015-05120-07**
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%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

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

Bridge Number **MRW** (CO) **C0015** (ROUTE) **05120** (UNIT) **07** **BENNINGTON TWP**

Date Built 07/01/1924

District **06** Bridge Type **CONCRETE/ARCH/FILLED**

Type Service **1** **15 BIG WALNUT CREEK** **MRW**

DECK Out/Out 21.4			THCK = 5.9		
1. Floor N-NONE 8			2. Wearing Surface 6-BITUM (ASPHLT CONCRT) 41		2
N-NONE			W.S. Date = 01/01/2005		
3. Curbs, Sidewalks, Walkways N-NONE 9			4. Median 42		
5. Railing 0-OTHER 10	2		6. Drainage 0-OTHER-NATURAL(OFF THE 43		2
7. Expansion Joints N-NONE 11			**8. Summary** 44		5
SUPERSTRUCTURE MAX.SPAN=45					
9. Alignment 12	1		10. Beams/Girders/Slab N-N/A (CULVERTS, TRUSSES 45		
TOT.LGTH=119					
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		
			N-NONE		
23. Portals 19			24. Bearing Devices N-NONE 52		
25. Arch 20	3		26. Arch Columns or Hangers 53		
			TYPE = N-NONE		
27. Spandrel Walls 21	3		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		3
SUBSTRUCTURE 2-CONCRETE			PIERS=1	SPANS = 2	
33. Abutments 2-CONCRETE 24	2		34. Abutment Seats 57		2
35. Piers TYPE = 2-CONCRETE 25	3		36. Pier Seats 58		3
			ABUTMENT:=SPREAD / SPREAD		
37. Backwalls 26	2		38. Wingwalls 59		2
39. Fenders and Dolphins 27			40. Scour 5-STABLE: SCOUR WITHIN L 60	1	2
41. Slope Protection N-NONE 28			**42. Summary** DIVE DT=N/A 62		3
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	2		N-NONE 52. Protection 67		
53. Waterway Adequacy 34	3		**54. Summary** 68		4
APPROACHES					
55. Pavement 2-BITUMINOUS 35	1		56. Approach Slabs 69		
57. Guardrail N-NONE 36			58. Relief Joints 70		
59. Embankment BRDG.WIDTH=18.1 37	3		**60. Summary** PCT.LEGAL=25 71		4
GENERAL			ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights 38			62. Warning Signs MAINT.RESP: 3-COUNTY 72		2
MVC ON=9999 UND=0000					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40	N		**66. General Appraisal & Operational Status** 74	COND 3	STAT P

67. INSPECTED BY

SIGNED

	4	5	8	5	8

76 PE

L	R	B

78 INITIALS

68. REVIEWED BY

SIGNED

	4	5	8	5	8

81 PE

L	R	B

83 INITIALS

DOT 2852

DECK AREA 2,540

Date 1 0 3 1 1 1 (86–91)

0 0 0 0 0 N 1 1 (92 — 69 Survey — 99)

Date 0 1 1 2 1 2 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

5	9	3	1	4	9	5

1 Structure File Number 7

Bridge Number **MRW** (CO) **C0015** (ROUTE) **05120** (UNIT) **07**

Date Built 07/01/1924

District **06** Bridge Type **CONCRETE/ARCH/FILLED**

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

BIG WALNUT CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.