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]	Preble County [135]	Dixon [22106]	1ST E. OF CONC.FAIRHAVEN	00-00-00 = 0.000000	000-00-00 = -0.000000

6836488	Highway agency district 8	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	#Num!		DIXON RD.	Toll	On free road [3]

Features intersected: FOUR MILE CREEK

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
1	Truss - Thru [10]	0	Other [00]	Year built	1958
				Year reconstructed	N/A [0000]
				Skew angle	0
				Structure Flared	

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

Total length	18.6 m = 61.0 ft	Length of maximum span	16.2 m = 53.2 ft	Deck width, out-to-out	5.5 m = 18.0 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	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	28.8 metric ton = 31.7 tons
0.5 km = 0.3 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	39.5 metric ton = 43.5 tons
	Bridge posting	20.0 - 29.9 % below [2]	Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	70	Average daily truck traffi	0 %	Year	1969	Future average daily traffic	97
Year	2027						
Road classification	Local (Rural) [09]	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	Not applicable, no waterway. [N]		
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	Equal to present minimum criteria [6]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Very Good [8]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Better than present minimum criteria [7]	Status evaluation	
Pier or abutment protection		Sufficiency rating	87.8
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	April 2010 [0410]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	April 2010 [0410]
Other special inspection	Not needed [N]	Other special inspection date	

District: **08** County **PREBLE**
(101) Location: **1ST E. OF CONC.FAIRHAVEN** (102) Facility Carried: **DIXON RD.**
(2)FIPS Code: **DIXON 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.: **T0242** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **FOUR MILE CREEK**
(5) County: **DIX** Mileage: **0265** Special Desig:
(6) Avg. Daily Traffic(ADT): **70** (7) ADT Year: **1969**
(8) Truck Traf: **7** (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: **18.0** 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: **39 Deg 43.7 Min** Longitude: **84 Deg 45.9 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1958** (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: **20** Ft (50) Brg. Rdw Width: **18.0** Ft
(51) Deck Width: **18.0** Ft Deck Area: **1098** 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:
(58) Railing: **OTHER**
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**
Thickness: **1.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **1** Type: **STEEL** / **TRUSS** / **PONY (TRUSS)**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **1** (65) Max Span: **53** Ft (66) Overall Leng: **61** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE AND STONE**	Type: **SOLID WALL**	Fnd: **SPREAD FOOTING**
Abut-Fwd Matl: **CONCRETE AND STONE**	Type: **SOLID WALL**	Fnd: **SPREAD FOOTING**
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: **OTHER-GRASS, BUSHES & TREES**
(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: **OTHER (INCL RR BRIDGE W/TRACK REMOVED)**
(83) Operating: **44** Ton
Inventory: **32** Ton
Ohio Percent of Legal Load **100**
Year of Rating: **2012**
(84) Analysis: **LOAD FACTOR (LF)**
(85) Rate Soft: **COMBINATION** Analyzed by:
Analysis on Bars: **NOT ON BARS [DEFAULT]**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **7**
(89) Approach Alignment **7**
Calc Gen Appraisal: **4**
Calc Deck Geometry: **4**
Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **TIMBER & STL CABLE**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **GOOD**

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 **ROLLED STEEL** (122) Moment Plate: **NONE**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **SLIDING (BRONZE)/NONE**
(126) Navigation: **Control- X** 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: **2012-05-03**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **OTHER**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **CHAMPION BRIDGE CO (WILMINGTON, OH)**
Hist Build Year: **1958**
(69) Hist Type: **WARREN (RIVETED)**
(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:

Inspection Summary

(I-8) Deck:	**7**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	**5**
(I-60) Approaches:	**4**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**P**
Inspection Date:	**05/03/2012**
(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:	**1 MEETS CURRENT STANDARDS**
Scour Critical:	**N NONE N/A**
Critical Findings:	**N NONE N/A**
Insp. Update Date:	**08/13/2012**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

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: **2FIELD MEASURED INFORMATION**

(153) Repair Projects

1. **/ 020**	2. **/ 020**	3.
4.	5.	6.
7.	8.	9.
10.		

Utilities

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

Special Features

(161) Lighting:	**N**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**Y**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

INV Field Bridge Marker: **PRE-T0242-0265 -**
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

6 8 3 6 4 8 8
1 Structure File Number 7

Bridge Number **PRE** (CO) **T0242** (ROUTE) **0265** (UNIT) **DIXON TWP** **Date Built 07/01/1958**

District **08** Bridge Type **STEEL/TRUSS/PONY (TRUSS)** Type Service **1** **15 FOUR MILE CREEK** **PRE**

DECK Out/Out 18.0				THCK = 1.0	
1. Floor — 1-REINF CONCRT (PRESTRSD 8	1		2. Wearing Surface — 6-BITUM (ASPHLT CONCRT) 41		1
	N-NONE			W.S. Date =	
3. Curbs, Sidewalks, Walkways — N-NONE 9			4. Median 42		
5. Railing — 0-OTHER 10	3		6. Drainage — 1-OVER THE SIDE (W/O DRI 43		1
7. Expansion Joints — 2-SLIDING METAL PLATE AN 11	1		**8. Summary** 44		7
SUPERSTRUCTURE MAX.SPAN=53					
9. Alignment 12	1		10. Beams/Girders/Slab — 1-ROLLED STEEL 45		1
TOT.LGTH=61					
11. Diaphragms or Crossframes 13			12. Joists/Stringers 46		1
13. Floor Beams 14	1		14. Floor Beam Connections 47		1
15. Verticals 15	1		16. Diagonals 48		1
17. End Posts 16	1		18. Top Chord 49		1
19. Lower Chord 17	1		20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
			3-SLIDING (BRONZE)		
23. Portals 19			24. Bearing Devices — N-NONE 52		1
25. Arch 20			26. Arch Columns or Hangers 53		
			TYPE = 0-OTHER		
27. Spandrel Walls 21			28. Protective Coating System — DATE = 01/01/1993 54		7
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		1
31. Live Load Response 23	S		**32. Summary** 56		7
SUBSTRUCTURE 3-CONCRETE AND STONE			PIERS=0 SPANS = 1		
33. Abutments — 3-CONCRETE AND STONE 24	2		34. Abutment Seats 57		1
35. Piers — TYPE = N-NONE 25			36. Pier Seats 58		
			ABUTMENT:=SPREAD / SPREAD		
37. Backwalls 26	1		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		6
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			0-OTHER-GRASS, BUSHES & TREES		
51. Alignment 33	2		52. Protection 67		1
53. Waterway Adequacy 34	2		**54. Summary** 68		5
APPROACHES					
55. Pavement — 2-BITUMINOUS 35	3		56. Approach Slabs 69		
57. Guardrail — 6-TIMBER & STL CABLE 36	4		58. Relief Joints 70		
59. Embankment — BRDG.WIDTH=18.0 37	1		**60. Summary** — PCT.LEGAL=100 71		4
GENERAL			ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights 38			62. Warning Signs — MAINT.RESP: 3-COUNTY 72		1
MVC ON=9999 UND=0000					
63. Sign Supports 39	2		64. Utilities 73		
65. Vertical Clearance 40	N		**66. General Appraisal & Operational Status** 74	COND 6	STAT P

67. INSPECTED BY — 68. REVIEWED BY

SIGNED — 76 PE — 78 INITIALS — SIGNED — 81 PE (7 1 2 8 8) — 83 INITIALS (R C)

DOT 2852

DECK AREA 1,098

Date (86–91) 0 5 0 3 1 2

92 0 0 0 0 0 1 N N 69 Survey 99

Date (100–105) 0 8 1 3 1 2

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	8	3	6	4	8	8

1 Structure File Number 7

Bridge Number **PRE** (CO) **T0242** (ROUTE) **0265** (UNIT)

Date Built 07/01/1958

District **08** Bridge Type **STEEL/TRUSS/PONY (TRUSS)**

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

FOUR MILE CREEK

00	NO REMARKS FOUND FOR THIS INSPECTION.