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]	Pickaway County [129]	Darby [20156]	0.4MI E.OF DARBY CREEK RD	39-45-12 = 39.753333	083-09-00 = -83.150000

6530192	Highway agency district 6	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	#Num!		SCIOTO-DARBY ROAD	Toll	On free road [3]

Features intersected: BIG DARBY CREEK

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
2	Truss - Thru [10]	0	Other [00]	Year built	1910
				Year reconstructed	1986
				Skew angle	0
				Structure Flared	

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

Total length	77.7 m = 254.9 ft	Length of maximum span	38.1 m = 125.0 ft	Deck width, out-to-out	5.4 m = 17.7 ft	Bridge roadway width, curb-to-curb	5.3 m = 17.4 ft
Inventory Route, Total Horizontal Clearance	5.3 m = 17.4 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft		

Deck structure type: Corrugated Steel [6]

Type of wearing surface: Bituminous [6]

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	29.8 metric ton = 32.8 tons	
1 km = 0.6 mi	Method to determine operating rating	Allowable Stress(AS) [2]	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	140	Average daily truck traffi	0 %	Year	1984	Future average daily traffic	194	Year	2032

Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	7 m = 23.0 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	3.35 m = 11.0 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 corrrective action [3]
Condition ratings - superstructur	Serious [3]	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	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 conditions; field review indicates action is required. [4]
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	Meets minimum tolerable limits to be left in place as is [4]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	35.9

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	September 2010 [0910]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2009 [0809]
Other special inspection	Not needed [N]	Other special inspection date	

District: **06** County **PICKAWAY** (101) Location: **0.4MI E.OF DARBY CREEK RD** (102) Facility Carried: **SCIOTO-DARBY ROAD**
(2)FIPS Code: **DARBY 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.: **C0022** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **BIG DARBY CREEK**
(5) County: **DAR** Mileage: **0695** Special Desig:
(6) Avg. Daily Traffic(ADT): **140** (7) ADT Year: **1984**
(8) Truck Traf: **0** (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: **17.3** Ft
(155) Prac Max Vert On Brg: **14.2** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **11.0** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **1.3 / 1.1** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **06** Miles
(39) Latitude: **39 Deg 45.2 Min** Longitude: **83 Deg 9.0 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1910** (42) Major Rehabilitation: **01/01/1986**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **23** Ft (50) Brg. Rdw Width: **17.3** Ft
(51) Deck Width: **17.7** Ft Deck Area: **4510** 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: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**
(60) Deck Type: **CORRUGATED STEEL PLATE**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**
Thickness: **2.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **2** Type: **STEEL / TRUSS / THRU**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **2** (65) Max Span: **125** Ft (66) Overall Leng: **255** 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**	Type: **GRAVITY**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Pred Matl: **CONCRETE**	Type: **GRAVITY**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
No of Piers Predominate: **01**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **UUU** (74) Scour: **STABLE: ACTION REQUIRED TO PROTECT FND**
(189) Dive: **N Freq: 0** Probe: **Y** Freq: **12** (75) Chan Prot: **SHEET PILING**
(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: **45** Ton
Inventory: **33** Ton
Ohio Percent of Legal Load **120**
Year of Rating: **1987**
(84) Analysis: **ALLOWABLE STRESS OR WORKING STRESS**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by:
Analysis on Bars: **NOT ON BARS [DEFAULT]**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **4**
(89) Approach Alignment **4**
Calc Gen Appraisal: **0**
Calc Deck Geometry: **0**
Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **STEEL BEAM**
(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 **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NOT APPLICABLE**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROLLERS/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: **2011-11-30**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **PINS, PIN PLATES**
(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: **OREGONIA BRIDGE CO (LEBANON, OH)**
Hist Build Year: **1910**
(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: **2032**

Programming Info

PID Number:
PID Status:
PID Date:

Inspection Summary

(I-8) Deck:	**4**
(I-32) Superstructure:	**2**
(I-42) Substructure:	**3**
(I-50) Culvert:	
(I-54) Channel:	**6**
(I-60) Approaches:	**8**
(I-66) General Appraisial:	**2**
(I-66) Operational Status:	**X**
Inspection Date:	**11/30/2011**
(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:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
In Depth:	**1 MEETS CURRENT STANDARDS**
Fracture Critical:	**N NONE N/A**
Scour Critical:	**1 MEETS CURRENT STANDARDS**
Critical Findings:	**1 MEETS CURRENT STANDARDS**
Insp. Update Date:	**03/07/2012**

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: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

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

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**

INV Field Bridge Marker: **PIC-C0022-0695 -**
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 5 3 0 1 9 2
1 Structure File Number 7

Bridge Number **PIC** (CO) **C0022** (ROUTE) **0695** (UNIT) **DARBY TWP** **Date Built 07/01/1910 - 1986**

District **06** Bridge Type **STEEL/TRUSS/THRU** Type Service **1** **15 BIG DARBY CREEK** **PIC**

DECK Out/Out 17.7			2. Wearing Surface THCK = 2.0 6-BITUM (ASPHLT CONCRT) 41		2
1. Floor 6-CORRUGATED STEEL PLATE 8		3			
3. Curbs, Sidewalks, Walkways N-NONE N-NONE 9			4. Median W.S. Date = 42		
5. Railing 7-STL GUARDRL ON STL, CO 10		3	6. Drainage 1-OVER THE SIDE (W/O DRI 43		1
7. Expansion Joints 2-SLIDING METAL PLATE AN 11		2	**8. Summary** 44		4
SUPERSTRUCTURE MAX.SPAN=125					
9. Alignment 12		1	10. Beams/Girders/Slab N-N/A (CULVERTS, TRUSSES 45		
TOT.LGTH=255					
11. Diaphragms or Crossframes 13			12. Joists/Stringers 46		2
13. Floor Beams 14		2	14. Floor Beam Connections 47		3
15. Verticals 15		3	16. Diagonals 48		3
17. End Posts 16		2	18. Top Chord 49		1
19. Lower Chord 17		4	20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		1
23. Portals 19		2	24. Bearing Devices 1-ROLLERS N-NONE 52		3
25. Arch 20			26. Arch Columns or Hangers 53		
27. Spandrel Walls 21			28. Protective Coating System TYPE = 0-OTHER DATE = 01/01/1991 54		2
29. Pins/Hangers/Hinges 22		3	30. Fatigue Prone Connections 55		
31. Live Load Response 23		S	**32. Summary** 56		2
SUBSTRUCTURE 2-CONCRETE			PIERS=1 SPANS = 2		
33. Abutments 2-CONCRETE 24		3	34. Abutment Seats 57		3
35. Piers TYPE = 2-CONCRETE 25		3	36. Pier Seats 58		3
37. Backwalls 26		3	ABUTMENT:=UNKNOWN / UNKNOWN 38. Wingwalls 59		2
39. Fenders and Dolphins 27			40. Scour 4-STABLE: ACTION REQUIRE 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	52. Protection 3-SHEET PILING 67		2
53. Waterway Adequacy 34		2	**54. Summary** 68		6
APPROACHES					
55. Pavement 2-BITUMINOUS 35		1	56. Approach Slabs 69		
57. Guardrail 1-STEEL BEAM 36		1	58. Relief Joints 70		
59. Embankment BRDG.WIDTH=17.3 37		1	**60. Summary** PCT.LEGAL=120 71		8
GENERAL					
61. Navigation Lights 38			ROUTINE.RESP: 3-COUNTY 62. Warning Signs MAINT.RESP: 3-COUNTY 72		2
MVC ON=11.0 UND=0000					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40		1	**66. General Appraisal & Operational Status** 74	COND 2	STAT X

67. INSPECTED BY

SIGNED

6 9 7 3 8 (76 PE)

J D (78 INITIALS)

68. REVIEWED BY

SIGNED

6 4 0 5 5 (81 PE)

J P (83 INITIALS)

DOT 2852

DECK AREA 4,510

Date 1 1 3 0 1 1 (86–91)

0 0 1 1 1 N 1 1 (92 — 69 Survey — 99)

Date 1 1 3 0 1 1 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	5	3	0	1	9	2

1 Structure File Number 7

Bridge Number **PIC** (CO) **C0022** (ROUTE) **0695** (UNIT)

Date Built 07/01/1910 - 1986

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

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

BIG DARBY CREEK

00	NO REMARKS FOUND FOR THIS INSPECTION.