

# 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]	Columbiana County [029]	Saint Clair [69512]	0.1 MI E SR170	40-42-24 = 40.706667	080-32-42 = - 80.545000
1535501	Highway agency district 11	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!		MIDLAND FREDR 1038	Toll On free road [3]	Features intersected LITTLE BEAVER CREEK	
Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
1	Truss - Thru [10]	0	Other [00]	Year built #Num!	Year reconstructed 2004
				Skew angle 0	Structure Flared
				Historical significance Bridge is eligible for the NRHP. [2]	
Total length	36.3 m = 119.1 ft	Length of maximum span	35.4 m = 116.1 ft	Deck width, out-to-out	4.7 m = 15.4 ft
Inventory Route, Total Horizontal Clearance	4.4 m = 14.4 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Open Grating [3]				
Type of wearing surface	Other [9]				
Deck protection					
Type of membrane/wearing surface					

## Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	19.4 metric ton = 21.3 tons
1.3 km = 0.8 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	28.2 metric ton = 31.0 tons
	Bridge posting	10.0 - 19.9 % below [3]	Design Load	

### Functional Details

Average Daily Traffic	100	Average daily truck traffi	0	%	Year	1951	Future average daily traffic	139	Year	2027
Road classification	Local (Rural) [09]		Lanes on structure	1		Approach roadway width	5.5 m = 18.0 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	5.31 m = 17.4 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	<input type="text" value="Posted for load [P]"/>	Appraisal ratings - structural	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - substructure	<input type="text" value="Very Good [8]"/>	Appraisal ratings - deck geometry	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - deck	<input type="text" value="Very Good [8]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]"/>		
Channel and channel protection	<input type="text" value="Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Superior to present desirable criteria [9]"/>	Status evaluation	<input type="text"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="60.7"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - transitions	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="August 2010 [0810]"/>	Designated inspection frequency	<input type="text" value="12"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="August 2010 [0810]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>

Unit of Measure: <b>English</b>			Bridge Inventory Information			Report Date 03/21/2013 BM-191 Page: 1 of 2		
Structure File Number <b>1535501</b>			Inventory Bridge Number:COL T1038 0204 02			BR. Type <b>STEEL / TRUSS / THRU</b>		
Sufficiency Rating: <b>62.6</b>			ON LITTLE BEAVER CREEK			Date of Last Inventory Update: 12/19/2012		
District: <b>11</b> County <b>COLUMBIANA</b>			(101) Location: <b>0.1 MI E SR170</b>			(102) Facility Carried: <b>MIDLAND FREDR 1038</b>		
(2)FIPS Code: <b>SAINT CLAIR TWP</b>			(103) Route On Bridge: <b>TOWNSHIP</b>			(104) Route Under Bridge: <b>NON-HIGHWAY</b>		
(9) Direction of Traffic: <b>ONE LANE FOR 2-WAY TRAFFIC</b> (10) Temporary: <b>N</b>			(11)Truck Network: <b>N</b>			(12)Parallel: <b>N</b>		
(95) Insp: <b>COUNTY</b> (96) Maint: <b>COUNTY</b> (97) Routine: <b>COUNTY</b>			(100) Type Serv: (On): <b>HIGHWAY</b>			(Under): <b>WATERWAY</b>		
Inventory Route Data			(63) Main Spans Number: 1			Type: <b>STEEL / TRUSS / THRU</b>		
(3) Route On/Under: <b>ON</b> Hwy Sys: <b>COUNTY/TOWNSHIP HIGHWAY</b>			Approach Spans Number: <b>0</b>			Type: <b>NONE / NONE / NONE</b>		
Route No.: <b>T1038</b> Dir: Des: <b>MAINLINE</b> Pref:			Total Spans: <b>1</b>			(65) Max Span: <b>116</b> Ft (66) Overall Leng: <b>119</b> Ft		
(4) Feature Intersected: <b>LITTLE BEAVER CREEK</b>			(70) Substructure			(71) Foundation and Scour Information		
(5) County: <b>STC</b> Mileage: <b>0204</b> Special Desig: <b>02</b>			Abut-Rear Matl: <b>STONE</b>			Type: <b>SOLID WALL</b> Fnd: <b>OTHER</b>		
(6) Avg. Daily Traffic(ADT): <b>100</b> (7) ADT Year: <b>1951</b>			Abut-Fwd Matl: <b>STONE</b>			Type: <b>SOLID WALL</b> Fnd: <b>OTHER</b>		
(8) Truck Traf: <b>0</b> (14) NHS: <b>NO - X</b> (15) Corridor: <b>N</b>			Pier-Pred Matl: <b>NONE</b>			Type: <b>NONE</b> Fnd: <b>NONE/NOT APPLICABLE (SUCH AS CULVERTS)</b>		
(16) Functional Class: <b>LOCAL ROAD-RURAL</b> (19) Strahnt: <b>Not Applicable</b>			Pier-Other Matl: <b>NONE</b>			Type: <b>NONE</b> Fnd: <b>NONE/NOT APPLICABLE (SUCH AS CULVERTS)</b>		
Intersected Route Data			Pier-Other Matl: <b>NONE</b>			Type: <b>NONE</b> Fnd: <b>NONE/NOT APPLICABLE (SUCH AS CULVERTS)</b>		
(22) Route On/Under:			No of Piers Predominate: <b>NN</b>			Other: <b>NN</b>		
Route No.: Dir: Des: Pref:			(86) Stream Velocity: <b>UUU</b>			(74) Scour: <b>STABLE: EVAL SCOUR ABOVE TOP OF FOOTING</b>		
(23) Feature Intersected:			(189) Dive: <b>N Freq: 0</b>			(75) Chan Prot: <b>NONE</b>		
(24) County: Mileage: Special Desig:			(189) Date of last Dive Insp:			(152) Drainage Area: <b>UUU</b> Sq Mi		
(25) Avg. Daily Traffic(ADT): <b>0</b> (26) ADT Year:			Clearance Under the Bridge					
(27) Truck Traf: <b>0</b> (28) NHS: - (29) Corridor:			(156) Min. Horiz Under Clear:			NC: <b>0.0</b> Ft Card: <b>0.0</b> Ft		
(30) Functional Class: (36) Strahnt: <b>Not Applicable</b>			(157) Prac Max Vrt Under Clear:			<b>0.0</b> Ft		
Clearance On the Bridge			(77) Min Vert Under Clear:			NC: <b>0.0</b> Ft Card: <b>0.0</b> Ft		
(154) Min Hriz on Bridge: NC: <b>0.0</b> Ft Card: <b>14.5</b> Ft			(78) Min Lat Under Clear:			NC: <b>0.0 / 0.0</b> Ft Card: <b>0.0 / 0.0</b> Ft		
(155) Prac Max Vert On Brg: <b>18.0</b> Ft			Load Rating Information (88-89) Appraisal					
(67) Min Vrt Clr On Brg: NC: <b>0.0</b> Ft Card: <b>17.4</b> Ft			(48) Design Load: <b>UNKNOWN [DEFAULT]</b>			(Including calculated Items)		
(80) Min Latl Clr: NC: <b>0.0 / 0.0</b> Ft Card: <b>0.0 / 0.0</b> Ft			(83) Operating: <b>31</b> Ton					
(81) Vrt Clr Lft: <b>0.0</b> Ft			Inventory: <b>22</b> Ton					
Structure Information			Ohio Percent of Legal Load <b>90</b>			(88) Waterway Adequacy <b>9</b>		
(38) Bypass Length: <b>08</b> Miles			Year of Rating: <b>2008</b>			(89) Approach Alignment <b>5</b>		
(39) Latitude: <b>40 Deg 42.4 Min</b> Longitude: <b>80 Deg 32.7 Min</b>			(84) Analysis: <b>ALLOWABLE STRESS OR WORKING STRESS</b>			Calc Gen Appraisal: <b>5</b>		
(40) Toll: <b>ON FREE ROAD</b>			(85) Rate Soft: <b>COMBINATION</b> Analyzed by: <b>RAH</b>			Calc Deck Geometry: <b>6</b>		
(41) Date Built: <b>07/01/1900</b> (42) Major Rehabilitation: <b>01/01/2004</b>			Analysis on Bars: <b>NOT ON BARS [DEFAULT]</b>			Calc Underclearance: <b>N</b>		
(43) No. Lanes On: <b>1</b> No. Lanes Under: <b>0</b>			Approach Information					
(44) Horiz Curve: <b>Deg. Min.</b> (45) Skew: <b>0</b> Deg			(109) Approach Guardrail: <b>STEEL BEAM</b>					
(49) App. Rdw Width: <b>18</b> Ft (50) Brg. Rdw Width: <b>14.6</b> Ft			(110) Approach Pavement: <b>BITUMINOUS</b>			(111) Grade: <b>GOOD</b>		
(51) Deck Width: <b>15.3</b> Ft Deck Area: <b>1819</b> Sq. Ft			Culvert Information					
(52) Median Type: <b>NONE / NON BARRIE / NO JOINT</b>			(131) Culvert Type: <b>NONE/NOT APPLICBLE</b>			(127) Length: <b>0.0</b> Ft		
(53) Bridge Median: <b>NO MEDIAN</b>			(129) Depth of Fill: <b>0.0</b> Ft			(130) Headwalls: <b>NONE</b>		
(54) Sidewalks: (left) <b>0</b> Ft (right) <b>0</b> Ft			General Information					
(55) Type Curb or Sidewalks:			(121) Main Member <b>N/A (CULVERTS, TRUSSES, ETC.)</b>			(122) Moment Plate: <b>WELDED</b>		
(Left) Matl: <b>NONE</b> Type: <b>NONE</b>			(169) Expansion Joint: <b>NONE</b>					
(Right) Matl: <b>NONE</b> Type: <b>NONE</b>			(124) Bearing Devices: <b>SLIDING (BRONZE)/FIXED</b>					
(56) Flared: <b>N</b> (57) Composite: <b>non-composite</b>			(126) Navigation: <b>Control- N</b> Vert Clr: <b>0.0</b> Ft			Horiz Clear.: <b>0.0</b> Ft		
(58) Railing: <b>STL GUARDRL ON STL, CONCR, OR TMBR POSTS</b>			(193) Spec Insp: <b>N</b> Freq: <b>0</b>			Date:		
(59) Deck Drainage: <b>OVER THE SIDE (W/O DRIP STRIP)</b>			(188) Fracture Critical Insp: <b>Y</b> Freq: <b>24</b>			Date: <b>2012-08-24</b>		
(60) Deck Type: <b>STEEL GRID - OPEN</b>			(138) Long Member: <b>TWO TRUSSES (RIVETED)</b>			(135) Hinges: <b>PINS AND HANGERS</b>		
(61) Deck Protection: External: <b>NONE</b>			(141) Structural Steel Memb: <b>OTHER</b>			(139) Framing: <b>NONE</b>		
Internal: <b>NONE</b>						Railing: <b>OTHER</b>		
(62) Wearing Surface: <b>OTHER</b>			Pay Wt: <b>0</b> pounds			Prime Loc: <b>UNKNOWN</b>		
Thickness: <b>0.0</b> in (119) Date of Wearing Surface:			Bridge Dedicated Name:			Paint: <b>GALVANIZED</b>		
Slope Protection: <b>NONE-NATURAL PROTECTION(GRASS,BUSHES)</b>								

Unit of Measure: **English**  
Structure File Number **1535501**  
Sufficiency Rating: **62.6**

Bridge Inventory Information  
Inventory Bridge Number:COL T1038 0204 02  
ON LITTLE BEAVER CREEK

Report Date 03/21/2013 BM-191 Page: 2 of 2  
BR. Type STEEL/TRUSS/THRU  
Date of Last Inventory Update: 12/19/2012

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NON-REGISTERED HISTORIC BRIDGE</b> (69) NBIS: Y (---) Hist Builder: <b>PENN BRIDGE WORKS (T. B. WHITE &amp; SONS -</b> Hist Build Year: <b>1893</b> (69) Hist Type: <b>PRATT (PINNED)</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>			
Proposed Improvements		Programming Info		(153) Repair Projects			
(90) Type Work: -		PID Number:		1. <b>000000 / 020</b>			
(90) Length: Ft		PID Status:		2.			
(90) Bridge Cost (\$1000s): <b>0</b>		PID Date:		3.			
(90) Roadway Cost (\$1000s): <b>0</b>				4.			
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		5.			
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2033</b>		6.			
				7.			
				8.			
				9.			
				10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>8</b>	Railings: <b>1 MEETS CURRENT STANDARDS</b>	(46) Electric: <b>N</b>	(161) Lighting: <b>N</b>	Gas: <b>N</b>	Fencing: <b>N</b>		
(I-32) Superstructure: <b>6</b>	Transitions: <b>1 MEETS CURRENT STANDARDS</b>	Sanitary Sewer: <b>N</b>	Glare-Screen: <b>N</b>	Telephone: <b>N</b>	Splash-Guard: <b>N</b>		
(I-42) Substructure: <b>8</b>	Guardrail: <b>1 MEETS CURRENT STANDARDS</b>	TV Cable: <b>N</b>	Catwalks: <b>N</b>	Water: <b>N</b>	Other-Feat: <b>N</b>		
(I-50) Culvert:	Rail Ends: <b>1 MEETS CURRENT STANDARDS</b>	Other: <b>N</b>	(184) Signs-on: <b>N</b>				
(I-54) Channel: <b>8</b>	In Depth: <b>1 MEETS CURRENT STANDARDS</b>		Signs-Under: <b>N</b>				
(I-60) Approaches: <b>8</b>	Fracture Critical: <b>0 DOES NOT MEET CURRENT STANDARDS</b>		(162) Fence-Ht: <b>0.0 Ft</b>				
(I-66) General Appraisal: <b>6</b>	Scour Critical: <b>N NONE N/A</b>		(163) Noise Barr: <b>N</b>				
(I-66) Operational Status: <b>P</b>	Critical Findings: <b>N NONE N/A</b>						
Inspection Date: <b>08/24/2012</b>	Insp. Update Date: <b>11/20/2012</b>						
(94) Desig Insp Freq: <b>12 Months</b>							
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: <b>COL-T1038-0204 -02</b>			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: <b>---</b>			
This bridge was retired and copied to:							
The bridge was copied from:							

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

1

5

3

5

5

0

1

1  
Structure File Number7

Bridge NumberCOL T1038 0204 02 SAINT CLAIR TWP  
CO ROUTE UNIT

Date Built 07/01/1900 - 2004

District 11 Bridge Type STEEL/TRUSS/THRUType Service 1 15 LITTLE BEAVER CREEKCOL

DECK		Out/Out 15.3		THCK = 0.0		
1. Floor	5-STEEL GRID - OPEN	8	1	2. Wearing Surface	0-OTHER	41
3. Curbs, Sidewalks, Walkways		N-NONE	9	4. Median		42
5. Railing	7-STL GUARDRL ON STL, CO	10	1	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints		N-NONE	11	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=116				
9. Alignment		12	1	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
11. Diaphragms or Crossframes		TOT.LGTH=119	13	12. Joists/Stringers		46
13. Floor Beams			14	1	14. Floor Beam Connections	47
15. Verticals			15	1	16. Diagonals	48
17. End Posts			16	1	18. Top Chord	49
19. Lower Chord			17	1	20. Lower Lateral Bracing	50
21. Top Lateral Bracing			18	22. Sway Bracing		51
23. Portals			19	1	3-SLIDING (BRONZE)	
24. Bearing Devices			20		B-FIXED	52
25. Arch			21		26. Arch Columns or Hangers	53
27. Spandrel Walls			22		TYPE = 6-GALVANIZED	
28. Protective Coating System			23		DATE = 07/28/1978	54
29. Pins/Hangers/Hinges			24	1	30. Fatigue Prone Connections	55
31. Live Load Response			25	S	32. Summary	56
SUBSTRUCTURE		1-STONE		PIERS=0		SPANS = 1
33. Abutments	1-STONE	24	1	34. Abutment Seats		57
35. Piers		TYPE = N-NONE	25	36. Pier Seats		58
37. Backwalls			26	1	ABUTMENT:=OTHER / OTHER	59
38. Wingwalls			27	40. Scour		8-STABLE: EVAL SCOUR ABO
39. Fenders and Dolphins			28		60	1
41. Slope Protection		N-NONE	28	42. Summary		DIVE DT=N/A
42. Summary			29	62		8
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	1	N-NONE	67
52. Protection			34	1	54. Summary	68
53. Waterway Adequacy			35	56. Approach Slabs		69
55. Pavement		2-BITUMINOUS	35	1	57. Guardrail	1-STEEL BEAM
56. Guardrail		1-STEEL BEAM	36	1	58. Relief Joints	70
59. Embankment		BRDG.WIDTH=14.6	37	1	60. Summary	PCT.LEGAL=90
60. Summary			38	71		8
GENERAL				ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights			38	62. Warning Signs		MAINT.RESP: 3-COUNTY
62. Warning Signs			39	64. Utilities		73
63. Sign Supports		MVC ON=17.4 UND=0000	39	66. General Appraisal & Operational Status		74
64. Utilities			40	1	COND	STAT
65. Vertical Clearance			40		6	P
67. INSPECTED BY		68. REVIEWED BY				
SIGNED		76 PE		78 INITIALS		
SIGNED		81 PE		83 INITIALS		
DOT 2852		DECK AREA 1,819		Date		
Date		86		91		
Date		92		69 Survey		99
Date		100		105		

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	5	3	5	5	0	1
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1 Structure File Number 7

Bridge Number COL T1038 0204 02  
CO ROUTE UNIT

Date Built 07/01/1900 - 2004

District 11 Bridge Type STEEL/TRUSS/THRU

Type Service 1 1 5

LITTLE BEAVER CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.