HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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]	Lorain County [093]	Henrietta [34972]	1.0MI.NORTH OF SR	41-20-54 = 41.348333	082-20-36 = -82.343333

4734734	Highway agency district	3	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	#Num!		DEAN RD.	Toll	On free road [3]	Features intersected	VERMILION RIVER DEAN

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi		
1	Truss - Thru [10]	0	Other [00]	Year built	#Num!	Year reconstructed	1992
				Skew angle	0	Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]		

Total length	53.6 m = 175.9 ft	Length of maximum span	52.1 m = 170.9 ft	Deck width, out-to-out	5.7 m = 18.7 ft	Bridge roadway width, curb-to-curb	4.7 m = 15.4 ft

Inventory Route, Total Horizontal Clearance	4.7 m = 15.4 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft

Deck structure type	Wood or Timber [8]
Type of wearing surface	Wood or Timber [7]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length		Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	9.9 metric ton = 10.9 tons
0.8 km = 0.5 mi		Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	9.9 metric ton = 10.9 tons
		Bridge posting		Design Load	

Functional Details

Average Daily Traffic	50	Average daily truck traffi	0 %	Year	1997	Future average daily traffic	69	Year	2027
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	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	4.78 m = 15.7 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

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	$1,000,000	Roadway improvement cost	$100,000
Length of structure improvement	304.8 m = 1000.0 ft	Total project cost	$1,100,000
Year of improvement cost estimate	2002		
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 replacement [2]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Better than present minimum criteria [7]
Condition ratings - deck	Poor [4]		
Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]		
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	20.7
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	Inpected feature meets currently acceptable standards. [1]		
Inspection date	December 2009 [1209]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	January 2009 [0109]
Other special inspection	Not needed [N]	Other special inspection date	

District: **03** County **LORAIN**
(101) Location: **1.0MI.NORTH OF SR** (102) Facility Carried: **DEAN RD.**
(2)FIPS Code: **HENRIETTA 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.: **T0066** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **VERMILION RIVER DEAN**
(5) County: **EHD** Mileage: **0103** Special Desig:
(6) Avg. Daily Traffic(ADT): **50** (7) ADT Year: **1997**
(8) Truck Traf: **2** (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: **15.4** Ft
(155) Prac Max Vert On Brg: **15.7** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **15.7** 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: **05** Miles
(39) Latitude: **41 Deg 20.9 Min** Longitude: **82 Deg 20.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1900** (42) Major Rehabilitation: **01/01/1992**
(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: **15.4** Ft
(51) Deck Width: **18.8** Ft Deck Area: **3305** 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: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)**
(60) Deck Type: **TIMBER PLANK**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **TIMBER**
Thickness: **0.0** in (119) Date of Wearing Surface: **01/01/1997**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **1** Type: **STEEL** / **TRUSS** / **THRU**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **1** (65) Max Span: **171** Ft (66) Overall Leng: **176** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **STONE**	Type: **SOLID WALL**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Abut-Fwd Matl: **STONE**	Type: **SOLID WALL**	Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Pred Matl: **NONE**	Type: **NONE**	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: **NN**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **UUU** (74) Scour: **COUNTERMEAS INSTALLED TO CORRECT PROBLEM**
(189) Dive: **N Freq: 0** Probe: **Y** Freq: **12** (75) Chan Prot: **RIP RAP (DUMPED ROCK OR ROCK)**
(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: **11** Ton
Inventory: **11** Ton
Ohio Percent of Legal Load **55**
Year of Rating: **2010**
(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 **9**
(89) Approach Alignment **4**
Calc Gen Appraisal: **2**
Calc Deck Geometry: **7**
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: **NONE**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **OTHER/ROLLERS**
(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: **2011-12-06**
(138) Long Member: **TWO TRUSSES (WELDED)** (135) Hinges: **PINS AND HANGERS**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Pay Wt: **70,000** pounds Prime Loc: **UNKNOWN** Paint: **OTHER**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NATIONAL HISTORIC REGISTER** (69) NBIS: **Y**
(---) Hist Builder: **MASSILLON BRIDGE COMPANY** Hist Build Year: **1898**
(69) Hist Type: **DOUBLE INTERSECTION PRATT (WHIPPLE)**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **31 - BRG/STR REPL--SUBSTD LD CAP OR RDW GEOM**
(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. **/ 020**	2. **/ 020**	3. **/ MMM**
4. **920103 / 039**	5.	6.
7.	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**5**
(I-32) Superstructure:	**4**
(I-42) Substructure:	**4**
(I-50) Culvert:	
(I-54) Channel:	**5**
(I-60) Approaches:	**4**
(I-66) General Appraisial:	**4**
(I-66) Operational Status:	**P**
Inspection Date:	**12/06/2011**
(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:	**1 MEETS CURRENT STANDARDS**
Fracture Critical:	**1 MEETS CURRENT STANDARDS**
Scour Critical:	**N NONE N/A**
Critical Findings:	**N NONE N/A**
Insp. Update Date:	**02/15/2012**

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:	**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: **LOR-T0066-0103 -**
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

4	7	3	4	7	3	4

1 Structure File Number 7

Bridge Number **LOR** (CO) **T0066** (ROUTE) **0103** (UNIT) **HENRIETTA TWP** **Date Built 07/01/1900 - 1992**

District **03** Bridge Type **STEEL/TRUSS/THRU** Type Service **1** **15 VERMILION RIVER DEAN** **LOR**

DECK Out/Out 18.8			1. Floor: 3-TIMBER PLANK (8)	1	
2. Wearing Surface: THCK = 0.0 7-TIMBER (41)			3. Curbs, Sidewalks, Walkways: N-NONE N-NONE (9)		
4. Median: W.S. Date = 01/01/1997 (42)			5. Railing: 7-STL GUARDRL ON STL, CO (10)	3	
6. Drainage: 0-OTHER-NATURAL(OFF THE (43)	3		7. Expansion Joints: 2-SLIDING METAL PLATE AN (11)	3	
8. Summary (44)	5				
SUPERSTRUCTURE MAX.SPAN=171			9. Alignment (12)	2	
10. Beams/Girders/Slab: N-N/A (CULVERTS, TRUSSES (45)			TOT.LGTH=176 11. Diaphragms or Crossframes (13)		
12. Joists/Stringers (46)	2		13. Floor Beams (14)	2	
14. Floor Beam Connections (47)	2		15. Verticals (15)	3	
16. Diagonals (48)	3		17. End Posts (16)	3	
18. Top Chord (49)	2		19. Lower Chord (17)	3	
20. Lower Lateral Bracing (50)			21. Top Lateral Bracing (18)		
22. Sway Bracing (51)	2		23. Portals (19)	2	
24. Bearing Devices: 0-OTHER 1-ROLLERS (52)	2		25. Arch (20)		
26. Arch Columns or Hangers (53)			27. Spandrel Walls (21)		
28. Protective Coating System: TYPE = 0-OTHER DATE = 01/01/1974 (54)	1		29. Pins/Hangers/Hinges (22)	2	
30. Fatigue Prone Connections (55)			31. Live Load Response (23)	S	
32. Summary (56)	4				
SUBSTRUCTURE 1-STONE			33. Abutments: 1-STONE (24)	3	
PIERS=0 SPANS = 1 34. Abutment Seats (57)	2		35. Piers: TYPE = N-NONE (25)		
36. Pier Seats (58)			37. Backwalls (26)	1	
ABUTMENT:=UNKNOWN / UNKNOWN 38. Wingwalls (59)	3		39. Fenders and Dolphins (27)		
40. Scour: 7-COUNTERMEAS INSTALLED (60)	2	2	41. Slope Protection: N-NONE (28)		
42. Summary DIVE DT=N/A (62)	4				
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)	3	
5-RIP RAP (DUMPED ROCK OR ROCK) 52. Protection (67)	2		53. Waterway Adequacy (34)	1	
54. Summary (68)	5				
APPROACHES			55. Pavement: 2-BITUMINOUS (35)	2	
56. Approach Slabs (69)			57. Guardrail: 1-STEEL BEAM (36)	2	
58. Relief Joints (70)			59. Embankment: BRDG.WIDTH=15.4 (37)	3	
60. Summary PCT.LEGAL=55 (71)	4				
GENERAL			61. Navigation Lights (38)		
ROUTINE.RESP: 3-COUNTY 62. Warning Signs MAINT.RESP: 3-COUNTY (72)			MVC ON=15.7 UND=0000 63. Sign Supports (39)		
64. Utilities (73)			65. Vertical Clearance (40)	1	
66. General Appraisal & Operational Status (74)	COND 4	STAT P			

67. INSPECTED BY

SIGNED

	6	9	1	2	4

76 PE

L	E	T

78 INITIALS

68. REVIEWED BY

SIGNED

	4	7	2	7	0

81 PE

W	C	H

83 INITIALS

DOT 2852

DECK AREA 3,305

Date (86–91)

1	2	0	6	1	1

0	0	0	0	1	1	N	N

92 69 Survey 99

Date (100–105)

0	1	3	0	1	2

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

4	7	3	4	7	3	4

1 Structure File Number 7

Bridge Number **LOR** (CO) **T0066** (ROUTE) **0103** (UNIT)

Date Built 07/01/1900 - 1992

District **03** Bridge Type **STEEL/TRUSS/THRU**

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

VERMILION RIVER DEAN

00 NO REMARKS FOUND FOR THIS INSPECTION.