HistoricBridges.org - National Bridge Inventory Data Sheet

2013 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]	Peru [62260]	.3 MI.E.INT.CR24 & CR225	40-22-30 = 40.375000	082-53-12 = -82.886667

5932394	Highway agency district 6	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	#Num!		CR225	Toll	On free road [3]

Features intersected: ALUM CREEK

Design - main	Aluminum, Wrought Iron or Cast Iron [9]	Design - approach		Kilometerpoint	0 km = 0.0 mi
1	Truss - Thru [10]	0	Other [00]	Year built	1876
				Year reconstructed	1942
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length	27.4 m = 89.9 ft	Length of maximum span	26.8 m = 87.9 ft	Deck width, out-to-out	5.6 m = 18.4 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	Wood or Timber [8]
Type of wearing surface	Other [9]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	7.5 metric ton = 8.3 tons	
0.6 km = 0.4 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	12.6 metric ton = 13.9 tons	
	Bridge posting		Design Load		

Functional Details

Average Daily Traffic	150	Average daily truck traffi	2 %	Year	1992	Future average daily traffic	208
Year	2033						
Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	6.7 m = 22.0 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	2.9 m = 9.5 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

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by owner's forces [2]		
Bridge improvement cost	$8,000	Roadway improvement cost	$1,000
Length of structure improvement	27.4 m = 89.9 ft	Total project cost	$10,000
Year of improvement cost estimate	2005		
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 - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrrective action [3]
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 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	25.7

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	

Inspection date	December 2012 [1212]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	December 2012 [1212]
Other special inspection	Not needed [N]	Other special inspection date	

District: 06 | County: MORROW | (101) Location: .3 MI.E.INT.CR24 & CR225 | (102) Facility Carried: CR225
(2) FIPS Code: MRW-T-62260-PERU TWP | (103) Route On Bridge: COUNTY | (104) Route Under Bridge: NON HIGHWAY TRAFFIC ON BRIDGE
(9) Direction of Traffic: ONE LANE BRIDGE FOR 2-WAY | (10) Temporary: N | (11) Truck Network: N | (12) Parallel: N
(100) Type Serv: (On): HIGHWAY | (Under): WATERWAY

Inventory Route Data

(3) Route On/Under: ROUTE CARRIED "ON" THE STR | Hwy Sys: COUNTY HIGHWAY (TOWNS
Route No: C0225 | Dir: NOT APPLICABLE | Des: MAINLINE | Pref: N
(4) Feature Intersected: ALUM CREEK
(5) County: PRU | Mileage: 00363 | Special Desig: 15
(6)Avg. Daily Traffic(ADT): 150 | (7) ADT Year: 1992
(8) Truck Traf: 3 | (14) NHS: NON-NHS BRG E | (15) Corridor: N
(16) Functional Class: RURAL - LOCAL | (19) Strahnt: NON-STRAHNET BRIDGES

Intersected Route Data

(22) Route On/Under: | Hwy Sys:
Route No: | Dir: | Des: | Pref:
(23) Feature Intersected:
(24) County: | Mileage: 0000 | Special Desig:
(25)Avg. Daily Traffic(ADT): | (26) ADT Year:
(27) Truck Traf: | (28) NHS: - | (29) Corridor: N
(30) Functional Class: | (36) Strahnt:

Clearance On the Bridge

(154) Min. Hriz on Bridge: NC: 0.0 | Card: 18.0 Ft
(155) Prac Max Vert On Brg: 9.5 Ft
(67) Min Vrt Clr On Brg: NC: 0.0 | Card: 9.5 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: 04 Miles
(39) Latitude: 40 Deg 22 Min 30.00 Sec | Longitude: 82 Deg 53 Min 12.00 Sec
(40) Toll: ON FREE ROAD, THE STRUCTU
(41) Date Built: 7/1/1876 | (42) Major Rehabilitation: 1/1/1942
(43) No. Lanes On: 1 | No. Lanes Under: 0
(44) Horiz Curve: | (45) Skew: 0 Deg
(49) App. Rdw Width: 22 Ft | (50) Brg. Rdw Width: 18.0 Ft
(51) Deck Width: 18.4 Ft | Deck Area: 1658 Sq. Ft
(52) Median Type: NONE/NON BARRIER/NO JOINT
(53) Bridge Median: NO MEDIAN
(54) Sidewalks: | (left) 0.0 Ft | (right) 0.0 Ft
(55) Type Curb or Sidewalks:
(Left) Matl: NONE | Type: NONE OR N/A (RR, PEDESTRIAN, ETC.)
(Right) Matl: NONE | Type: NONE OR N/A (RR, PEDESTRIAN, ETC.)
(56) Flared: N | (57) Composite: N - NON_COMPOSITE
(58) Railing: OTHER
(59) Deck Drainage: OVER THE SIDE (WITHOUT DRIP STRIP)
(60) Deck Type: LAMINATED TIMBER STRIP
(61) Deck Protection: External: NONE OR NOT APPLICABLE
Internal: NONE OR NOT APPLICABLE
(62) Wearing Surface: CHIP & SEAL - OVERLAY
Thickness: 1.0 in | (119) Date of Wearing Surface: 1/1/1980
Slope Protection: NONE

(63) Main Spans Number: 1 | Type: WROUGHT IRON/TRUSS/THRU
Approach Spans Number: 0 | Type: NONE/NONE/NONE
Total Spans: 1 | (65) Max Span: 88 Ft | (66) Overall Leng: 90 Ft

(70) Substructure		(71) Foundation and Scour Information	
Abut-Rear	Matl: CONCRETE A	Type: GRAVITY	Fnd: UNKNOWN
Abut-Fwd	Matl: CONCRETE A	Type: GRAVITY	Fnd: UNKNOWN
Pier-Pred	Matl: NONE	Type: NONE	Fnd: NONE (SUCH AS MOST CULVERTS)
Pier-Other	Matl: NONE	Type: NONE	Fnd: NONE (SUCH AS MOST CULVERTS)
Pier-Other	Matl: NONE	Type: NONE	Fnd: NONE (SUCH AS MOST CULVERTS)

No of Piers Predominate: | Other: | Other:
(86) Stream Velocity: 00000 | (74) Scour: SCOUR WITHIN LIMITS OF FOOTING OR PILES.
(189) Dive: N Freq: 0 | Probe: Y Freq: 0 | (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
Opr Rat Fact: 0.390 LD: HS20 LOADING
Inv Rat Fact: 0.230 LD: HS20 LOADING
(83) Ohio Percent of Legal Load: 50
Year of Rating: 2011
(84) Analysis: LOAD FACTOR RATING (LFR)
(85) Rate Soft: OTHER PROGRAM
Analysis on Bars: NOT ON BARS [DEFAULT]
PE#: 0 DHT

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy: 9
(89) Approach Alignment: 3
Calc Gen Appraisal: 3
Calc Deck Geometry: 3
Calc Underclearance: N

Approach Information

(109) Approach Guardrail: NONE
(110) Approach Pavement: GRAVEL | (111) Grade: FAIR

Culvert Information

(131) Culvert Type: NOT A CULVERT OR RIGID FRAME | (127) Length: 0.0 Ft
(129) Depth of Fill: 0.0 Ft | (130) Headwalls: NONE OR NOT APPLICABLE (NOT A CU

General Information

(121) Main Member: NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE | (122) Moment Plate: NO MOMENT PLATES
(169) Expansion Joint: NONE
(124) Bearing Devices: SLIDING (OTHER)
(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: 12/19/2014
(138) Long Member: TWO TRUSSES (RIVETED) | (135) Hinges: NOT APPLICABLE (STRUCTURES WITH NO
(141) Structural Steel Memb: NONE | (139) Framing: NONE OR NOT APPLICABLE
Railing: 0
Pay Wt: 0 pounds | Prime Loc: UNKNOWN | Paint: NONE OR NOT APPLICABLE
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: ELIGIBLE FOR NATIONAL REGISTER (69) NBIS: Y
(---) Hist Builder: WROUGHT IRON BRIDGE CO (CANTON, OHIO) Hist Build Year: 1876
(69) Hist Type: PRATT (PINNED)
(161) Special Features (see below):
(105) Border Bridge State: Resp: %(106) SFN:

Proposed Improvements

(90) Type Work: 35 - REHABILITATION - DETERIORATION
(90) Length: 90.0 Ft
(90) Bridge Cost ($1000s): 8
(90) Roadway Cost ($1000s): 1
(90) Total Project Cost ($1000s): 10 (90) Year: 1980
(91) Future ADT (On Bridge): 208 (92) Year of Future ADT: 2033

Programming Info

PID Number:
PID Status:
PID Date:

Original Plans Information

(142) Fabricator: WROUGHT IRONCO
(143) Contractor: WROUGHT IRONCO
(144) Ohio Original Construction Project No: 0000PC
(---) Microfilm Reel:
(151) Standard Drawing:
Aperture Cards: Orig: N Repair: N Fabr: N
Plan Information Available: 1 PLAN INFORMATION AVAILABLE FOR LOAD RATI

(153) Repair Projects:
1) / MMM 2) / 020 3) / 044

Inspection Summary

(I-8) Deck:	8
(I-32) Superstructure:	3
(I-42) Substructure:	5
(I-50) Culvert:	N
(I-54) Channel:	5
(I-60) Approaches:	4
(I-66) General Appraisal:	3
(I-66) Operational Status:	P
Inspection Date:	12/19/2014
(94) Desig Insp Freq	12 Months

(I-69) Survey Items

Railings:	DOES NOT MEET ACCEPTABLE STANDA
Transitions:	DOES NOT MEET ACCEPTABLE STANDA
Guardrail:	DOES NOT MEET ACCEPTABLE STANDA
Rail Ends:	DOES NOT MEET ACCEPTABLE STANDA
In Depth:	
Fracture Critical:	
Scour Critical	
Critical Findings:	
Insp. Update Date:	12/19/2014

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
(163)	Noise Barr	N

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

INV Field Bridge Marker: MRW - C0225 - 0363 - 15
INT Field Bridge Marker: - - 0000 -

(95) Insp: COUNTY AGENCY 2nd: NONE 3rd: NONE
(96) Maint: COUNTY AGENCY 2nd: NONE 3rd: NONE
(97) Routine: COUNTY AGENCY 2nd: NONE 3rd: NONE

PONTIS CoRe elements and Conditions States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5

(*) Percentages should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 5932394 | MRW (CO) | C0225 (Route) | 00363 (SLM) | MRW-T-62260-PERU TWP (FIPS) | **DATE BUILT** 07/01/1876 - 1942

District 06 | WROUGHT IRON/TRUSSTHRU | **Type of Service** 1 | 15 ALUM CREEK | 15 (SD) | MRW

DECK

1. Floor	Out/Out 18.4 2-LAMINATED TIMBER STRIP	1	2. Wearing Surface	THCK= 1.0 B-CHIP & SEAL - OVERLAY	1
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE		4. Median	W.S. Date = 01/01/1980 N-NO MEDIAN	
5. Railing	0-OTHER	1	6. Drainage	1-OVER THE SIDE (WITHOUT DRIP STRIP)	2
7. Expansion Joints	N-NONE		**8. SUMMARY**	Deck Area: 1,658	8

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 88	2	10. Beams/Girders/Slab	N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE	
11. Diaphragms or Cross Frames	TOT.LGTH = 90		12. Joist/Stringers		**2**
13. Floorbeams		**3**	14. Floorbeam Connections		
15. Verticals		**2**	16. Diagonals		**2**
17. End posts			18. Upper Chord		**2**
19. Lower Chord		**2**	20. Gusset Plates		
21. Lateral Bracing		2	22. Sway Bracing		2
23. Portals			24. Bearing Devices	A-SLIDING (OTHER) N-NONE	2
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			**28. Protective Coating System (PCS)**	TYPE: NNONE OR NOT APPLICABLE DATE = 01/01/1960	4
29. Pins/Hangers/Hinges	ADT: 150 TRUCK: 3 YEAR: 1992		30. Fatigue Prone Detail (E & E')		
31. Live Load Response (E or S)		S	**32. SUMMARY**		3

SUBSTRUCTURE

33. Abutments	3-CONCRETE AND STONE 3-CONCRETE AND STONE	**2**	34. Abutment Seats	PIERS= # OF SPANS=1	**3**
35. Piers	TYPE = N-NONE		36. Pier Seats		
37. Backwalls		1	38. Wingwalls	ABUTMENT:=UNKNOWN/UNKNOWN	2
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	5-SCOUR WITHIN LIMITS OF FOOTING OR PILES. 1	**2**
41. Slope Protection	N-NONE		**42. SUMMARY**	DIVE DT= N/A	5

CULVERTS

43. General			44. Alignment		
45. Shape			46. Seams		
47. Headwalls or Endwalls			48. Scour (Insp Type - 1, 2, 3)		
49. Abutments			**50. SUMMARY**		N

CHANNEL

51. Alignment		3	52. Protection	N-NONE	
53. Hydraulic Opening		2	**54. SUMMARY**		5

APPROACHES

55. Pavement	4-GRAVEL	3	56. Approach Slabs		
57. Guardrail	N-NONE		58. Relief Joint		
59. Embankment	BRDG.WIDTH=18.0	3	**60. SUMMARY**	PCT.LEGAL= 50	4

GENERAL

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	2
63. Sign Supports	MVC ON=906 UND=0000		64. Utilities		
65. Vertical Clearance (1, 2-change, N)			66. **General Appraisal** & Operational Status	3	P

67. INSPECTED BY

Print First & Last Name | **48,573** PE Number | **DG** Initial

Inspected Date: 12/19/2014

68. REVIEWED BY

Print First & Last Name | **45,858** PE Number | **RB** Initial

Reviewed Date: 2/4/2015

0	0	0	0				

69. Survey (1, 0, N)