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]	Putnam County [137]	Unknown [00000]	2.0 MI NORTH OF SR 15	41-08-30 = 41.141667	084-13-06 = -84.218333

6931928	Highway agency district: 1	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		
Route: #Num!		TOWNSHIP ROAD 18A	Toll: On free road [3]	Features intersected: NORTH POWELL 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: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is eligible for the NRHP. [2]	

Total length	12.2 m = 40.0 ft	Length of maximum span	11.6 m = 38.1 ft	Deck width, out-to-out	6.5 m = 21.3 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	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	8.1 metric ton = 8.9 tons	
0.5 km = 0.3 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	13.6 metric ton = 15.0 tons	
	Bridge posting		Design Load		

Functional Details

Average Daily Traffic	60	Average daily truck traffi	0 %	Year	1991	Future average daily traffic	83
Year	2034						
Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	4 m = 13.1 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	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

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	$53,000	Roadway improvement cost	$5,000
Length of structure improvement	42.7 m = 140.1 ft	Total project cost	$66,000
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 replacement [2]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of replacement [2]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Good [7]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
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	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	41

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	November 2012 [1112]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2012 [1112]
Other special inspection	Not needed [N]	Other special inspection date	

District: 01 | County: PUTNAM | (101) Location: 2.0 MI NORTH OF SR 15 | (102) Facility Carried: TOWNSHIP ROAD 18A
(2) FIPS Code: PUT 00000-FIPS NOT ENTERED | (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: 0018A | Dir: NOT APPLICABLE | Des: MAINLINE | Pref: N
(4) Feature Intersected: NORTH POWELL CREEK
(5) County: PAL | Mileage: 01650 | Special Desig: N
(6)Avg. Daily Traffic(ADT): 60 | (7) ADT Year: 1991
(8) Truck Traf: 4 | (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: | 9999.9 Ft
(67) Min Vrt Clr On Brg: | NC: 0.0 | 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: 41 Deg 08 Min 30.00 Sec | Longitude: 84 Deg 13 Min 06.00 Sec
(40) Toll: ON FREE ROAD, THE STRUCTU
(41) Date Built: 7/1/1875 | (42) Major Rehabilitation:
(43) No. Lanes On: 1 | No. Lanes Under: 0
(44) Horiz Curve: | (45) Skew: 0 Deg
(49) App. Rdw Width: 13 Ft | (50) Brg. Rdw Width: 18.0 Ft
(51) Deck Width: 21.2 Ft | Deck Area: 850 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: TIMBER PLANK
(61) Deck Protection: External: NONE OR NOT APPLICABLE
Internal: NONE OR NOT APPLICABLE
(62) Wearing Surface: BITUMINOUS (ASPHALTIC CONCRETE) - OVERLA
Thickness: 1.2 in | (119) Date of Wearing Surface:
Slope Protection: NONE

(63) Main Spans Number: 1 | Type: STEEL/TRUSS/PONY (TRUSS)
Approach Spans Number: 0 | Type: NONE/NONE/NONE
Total Spans: 1 | (65) Max Span: 38 Ft | (66) Overall Leng: 40 Ft

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

No of Piers Predominate: | Other: | Other:
(86) Stream Velocity: 00000 | (74) Scour: BRIDGE FOUNDATIONS DETERMINED TO BE STAB
(189) Dive: N Freq: 0 | Probe: Y Freq: 0 | (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: UNKNOWN
Opr Rat Fact: 0.420 LD:
Inv Rat Fact: 0.250 LD:
(83) Ohio Percent of Legal Load: 40
Year of Rating: 2012
(84) Analysis: ALLOWABLE STRESS RATING (ASR) OR WORKING
(85) Rate Soft: BARS
Analysis on Bars: NOT ON BARS [DEFAULT]
PE#: 43709 DANIEL BUCHER

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy: 6
(89) Approach Alignment: 2
Calc Gen Appraisal: 2
Calc Deck Geometry: 4
Calc Underclearance: N

Approach Information

(109) Approach Guardrail: NONE
(110) Approach Pavement: OTHER | (111) Grade: POOR

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: 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: 10/27/2014
(138) Long Member: TWO TRUSSES (WELDED) | (135) Hinges: NOT APPLICABLE (STRUCTURES WITH NO
(141) Structural Steel Memb: UNKNOWN | (139) Framing: NONE OR NOT APPLICABLE
Railing: U
Pay Wt: 0 pounds | Prime Loc: UNKNOWN | Paint: OTHER PAINT
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: ELIGIBLE FOR NATIONAL REGISTER
(69) NBIS: Y
(---) Hist Builder: DAVID H. MORRISON
Hist Build Year: 1875
(69) Hist Type: PRATT
(161) Special Features (see below):
(105) Border Bridge State: Resp: %(106) SFN:

Proposed Improvements

(90) Type Work: 31 - REPLACEMENT - LOAD/GEOMETRY
(90) Length: 140.0 Ft
(90) Bridge Cost ($1000s): 53
(90) Roadway Cost ($1000s): 5
(90) Total Project Cost ($1000s): 66
(90) Year: 1992
(91) Future ADT (On Bridge): 83
(92) Year of Future ADT: 2034

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: 1 PLAN INFORMATION AVAILABLE FOR LOAD RATI

(153) Repair Projects:
1) / 020

Inspection Summary

(I-8) Deck:	7
(I-32) Superstructure:	6
(I-42) Substructure:	6
(I-50) Culvert:	N
(I-54) Channel:	6
(I-60) Approaches:	7
(I-66) General Appraisal:	5
(I-66) Operational Status:	P
Inspection Date:	11/25/2013
(94) Desig Insp Freq	12 Months

(I-69) Survey Items

Railings:	
Transitions:	
Guardrail:	
Rail Ends:	
In Depth:	
Fracture Critical:	
Scour Critical	
Critical Findings:	
Insp. Update Date:	11/25/2013

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:	Y
	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: PUT - 0018A - 0165 - N
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: 6931928 | PUT CO | 0018A Route | 01650 SLM | PUT 00000-FIPS NOT ENTERED FIPS | **DATE BUILT** 07/01/1875 | N SD | PUT

District 01 | STEEL/TRUSSPONY (TRUSS) | **Type of Service** 1 | 15 | NORTH POWELL CREEK

DECK

1. Floor	Out/Out 21.2 3-TIMBER PLANK	1	2. Wearing Surface	THCK= 1.2 6-BITUMINOUS (ASPHALTIC CONCRETE) -	1
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE		4. Median	W.S. Date = N-NO MEDIAN	
5. Railing	0-OTHER	4	6. Drainage	1-OVER THE SIDE (WITHOUT DRIP STRIP)	1
7. Expansion Joints	N-NONE		**8. SUMMARY**	Deck Area: 850	7

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 38	2	10. Beams/Girders/Slab	N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE	
11. Diaphragms or Cross Frames	TOT.LGTH = 40		12. Joist/Stringers		**2**
13. Floorbeams		**2**	14. Floorbeam Connections		
15. Verticals		**2**	16. Diagonals		**2**
17. End posts			18. Upper Chord		
19. Lower Chord		**3**	20. Gusset Plates		
21. Lateral Bracing		3	22. Sway Bracing		
23. Portals			24. Bearing Devices	0-OTHER N-NONE	2
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			**28. Protective Coating System (PCS)**	TYPE: 0OTHER PAINT DATE = 10/01/1995	3
29. Pins/Hangers/Hinges	ADT: 60 TRUCK: 4 YEAR: 1991		30. Fatigue Prone Detail (E & E')		
31. Live Load Response (E or S)		S	**32. SUMMARY**		6

SUBSTRUCTURE

33. Abutments	2-CONCRETE 2-CONCRETE	**2**	34. Abutment Seats	PIERS= # OF SPANS=1	**2**
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)	8-BRIDGE FOUNDATIONS DETERMINED TO BE STAB	**1**
41. Slope Protection	N-NONE		**42. SUMMARY**	DIVE DT= N/A	6

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		1	52. Protection	0-OTHER (GRASS, BUSHES, TREES)	1
53. Hydraulic Opening		2	**54. SUMMARY**		6

APPROACHES

55. Pavement	0-OTHER	1	56. Approach Slabs		
57. Guardrail	N-NONE		58. Relief Joint		
59. Embankment	BRDG.WIDTH=18.0	1	**60. SUMMARY**	PCT.LEGAL= 40	7

GENERAL

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	1
63. Sign Supports	MVC ON=9999 UND=0000		64. Utilities		
65. Vertical Clearance (1, 2-change, N)			66. **General Appraisal** & Operational Status	5	P

67. INSPECTED BY

Print First & Last Name

54,504 PE Number

TA Initial

Inspected Date: 11/25/2013

68. REVIEWED BY

Print First & Last Name

PE Number

Initial

Reviewed Date: 1/1/0001

69. Survey (1, 0, N)