HistoricBridges.org - National Bridge Inventory Data Sheet

2014 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]	Knox County [083]	Wayne [82194]	0.1 MI SOUTH OF SPARTA RD	40-26-26.82 = 40.440783	082-36-28.62 = -82.607950

4237617	Highway agency district 5	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	385	MILE CREEK ROAD	Toll	On free road [3]	Features intersected MILE CREEK

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
3	Truss - Thru [10]	0	Other [00]	Year built 1926	Year reconstructed 1975
				Skew angle 0	Structure Flared
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length	15.9 m = 52.2 ft	Length of maximum span	4.9 m = 16.1 ft	Deck width, out-to-out	4.3 m = 14.1 ft	Bridge roadway width, curb-to-curb	4.1 m = 13.5 ft
Inventory Route, Total Horizontal Clearance	4.1 m = 13.5 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	4.5 metric ton = 5.0 tons	
0.8 km = 0.5 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	5.5 metric ton = 6.1 tons	
	Bridge posting		Design Load		

Functional Details

Average Daily Traffic	60	Average daily truck traffi	0 %	Year	1980	Future average daily traffic	83
Year	2034						
Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	6.1 m = 20.0 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	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	$90,000	Roadway improvement cost	$9,000
Length of structure improvement	32 m = 105.0 ft	Total project cost	$107,000
Year of improvement cost estimate	2006		
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	Serious [3]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Poor [4]		
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 protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Basically intolerable requiring high priority of corrrective action [3]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	16
Culverts	Not applicable. Used if structure is not a culvert. [N]		

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

Inspection date	December 2013 [1213]	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 2013 [1213]
Other special inspection	Not needed [N]	Other special inspection date	

District: 05 | County: KNOX | (101) Location: 0.1 MI SOUTH OF SPARTA RD | (102) Facility Carried: MILE CREEK ROAD
(2) FIPS Code: KNO-T-82194-WAYNE TWP | (103) Route On Bridge: TOWNSHIP | (104) Route Under Bridge: NON HIGHWAY TRAFFIC ON BRIDGE
(9) Direction of Traffic: ONE LANE BRIDGE FOR 2-WAY | (10) Temporary: | (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: 00385 | Dir: NOT APPLICABLE | Des: MAINLINE | Pref: N
(4) Feature Intersected: MILE CREEK
(5) County: WAY | Mileage: 01510 | Special Desig: N
(6)Avg. Daily Traffic(ADT): 60 | (7) ADT Year: 1980
(8) Truck Traf: 0 | (14) NHS: NON-NHS BRIDG | (15) Corridor: N
(16) Functional Class: RURAL - LOCAL | (19) Strahnt: NOT STRAHNET

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: 13.3 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: 05 Miles
(39) Latitude: 40 Deg 26 Min 26.82 Sec | Longitude: 82 Deg 36 Min 28.62 Sec
(40) Toll: ON FREE ROAD, THE STRUCTU
(41) Date Built: 7/1/1926 | (42) Major Rehabilitation: 1/1/1975
(43) No. Lanes On: 1 | No. Lanes Under: 0
(44) Horiz Curve: | (45) Skew: 0 Deg
(49) App. Rdw Width: 20 Ft | (50) Brg. Rdw Width: 13.3 Ft
(51) Deck Width: 14.0 Ft | Deck Area: 732 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: 0 | (57) Composite: N - NON_COMPOSITE
(58) Railing: STEEL GUARDRAIL ON STEEL, CONCRETE OR TI
(59) Deck Drainage: OVER THE SIDE (WITHOUT DRIP STRIP)
(60) Deck Type: LAMINATED TIMBER STRIP
(61) Deck Protection: External: NOT APPLICABLE (ONLY FOR BRIDGES FOR NO
Internal: NOT APPLICABLE (APPLIES ONLY TO BRIDGES
(62) Wearing Surface: BITUMINOUS (ASPHALTIC CONCRETE) - OVERLA
Thickness: 2.0 in | (119) Date of Wearing Surface:
Slope Protection: NONE

(63) Main Spans Number: 3 | Type: STEEL/TRUSS/PONY (TRUSS)
Approach Spans Number: 0 | Type: NONE/NONE/NONE
Total Spans: 3 | (65) Max Span: 16 Ft | (66) Overall Leng: 52 Ft

(70) Substructure		(71) Foundation and Scour Information	
Abut-Rear	Matl: CONCRETE A	Type: SOLID WALL	Fnd: OTHER
Abut-Fwd	Matl: CONCRETE	Type: SOLID WALL	Fnd: OTHER
Pier-Pred	Matl: STEEL	Type: CAPPED PILE	Fnd: OTHER
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: ACTION IS REQUIRED TO PROTECT EXPOSED FO
(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: 0.170 LD:
Inv Rat Fact: 0.140 LD:
(83) Ohio Percent of Legal Load: 15
Year of Rating: 1980
(84) Analysis: ALLOWABLE STRESS (AS) RATING REPORTED BY
(85) Rate Soft: ASSIGNED RATING (NO CALCULATIONS WERE DO
Analysis on Bars: NOT ON BARS [DEFAULT]
PE#: 0

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy: 3
(89) Approach Alignment: 5
Calc Gen Appraisal: 2
Calc Deck Geometry: 5
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: ROLLED STEEL | (122) Moment Plate: NO MOMENT PLATES
(169) Expansion Joint: NONE
(124) Bearing Devices: NONE
(126) Navigation: Control-0 | 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: 12/26/2013
(138) Long Member: TWO TRUSSES (RIVETED) | (135) Hinges: NOT APPLICABLE (STRUCTURES WITH NO
(141) Structural Steel Memb: A36 | (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: WROUGHT IRON BRIDGE CO (CANTON, OHIO) Hist Build Year: 1876
(69) Hist Type: PRATT
(161) Special Features (see below):
(105) Border Bridge State: Resp: %(106) SFN:

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

Proposed Improvements

(90) Type Work: 31 - REPLACEMENT - LOAD/GEOMETRY
(90) Length: 105.0 Ft
(90) Bridge Cost ($1000s): 90
(90) Roadway Cost ($1000s): 9
(90) Total Project Cost ($1000s): 107 (90) Year: 2000
(91) Future ADT (On Bridge): 83 (92) Year of Future ADT: 2034

Programming Info

PID Number:
PID Status:
PID Date:

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

Inspection Summary

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

(I-69) Survey Items

Railings:	MEETS ACCEPTABLE STANDARDS
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:	12/3/2014

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: KNO - 00385 - 0151 - 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: 4237617 | KNO (CO) | 00385 (Route) | 01510 (SLM) | KNO-T-82194-WAYNE TWP (FIPS) | **DATE BUILT** 07/01/1926 - 1975

District 05 | **STEEL/TRUSSPONY (TRUSS)** | **Type of Service** 1 | 15 MILE CREEK | N (SD) | KNO

DECK

1. Floor	Out/Out 14.0 2-LAMINATED TIMBER STRIP	**2**	2. Wearing Surface	THCK= 2.0 6-BITUMINOUS (ASPHALTIC CONCRETE) -	3
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE		4. Median	W.S. Date = N-NO MEDIAN	
5. Railing	7-STEEL GUARDRAIL ON STEEL, CONCRETE OR TI	2	6. Drainage	1-OVER THE SIDE (WITHOUT DRIP STRIP)	3
7. Expansion Joints	N-NONE		**8. SUMMARY**	Deck Area: 732	4

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 16	3	10. Beams/Girders/Slab	1-ROLLED STEEL	**3**
11. Diaphragms or Cross Frames	TOT.LGTH = 52		12. Joist/Stringers		**2**
13. Floorbeams		**2**	14. Floorbeam Connections		
15. Verticals		**3**	16. Diagonals		**2**
17. End posts			18. Upper Chord		**3**
19. Lower Chord		**3**	20. Gusset Plates		
21. Lateral Bracing		3	22. Sway Bracing		
23. Portals			24. Bearing Devices	N-NONE N-NONE	
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			**28. Protective Coating System (PCS)**	TYPE: 0OTHER PAINT DATE = 01/01/1975	4
29. Pins/Hangers/Hinges	ADT: 60 TRUCK: 0 YEAR: 1980		30. Fatigue Prone Detail (E & E')		
31. Live Load Response (E or S)		E	**32. SUMMARY**		3

SUBSTRUCTURE

33. Abutments	2-CONCRETE 3-CONCRETE AND STONE	**3**	34. Abutment Seats	PIERS= # OF SPANS=3	**3**
35. Piers	TYPE = 5-STEEL	**2**	36. Pier Seats		**2**
37. Backwalls		3	38. Wingwalls	ABUTMENT:=OTHER/OTHER	3
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	4-ACTION IS REQUIRED TO PROTECT EXPOSED FO 1	**2**
41. Slope Protection	N-NONE		**42. SUMMARY**	DIVE DT= N/A	3

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		2	52. Protection	N-NONE	2
53. Hydraulic Opening		3	**54. SUMMARY**		4

APPROACHES

55. Pavement	4-GRAVEL	2	56. Approach Slabs		
57. Guardrail	N-NONE		58. Relief Joint		
59. Embankment	BRDG.WIDTH=13.3	2	**60. SUMMARY**	PCT.LEGAL= 15	5

GENERAL

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	4
63. Sign Supports	MVC ON=9999 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 | 65,600 PE Number | JE Initial

Inspected Date: 12/3/2014

68. REVIEWED BY

Print First & Last Name | 65,600 PE Number | JE Initial

Reviewed Date: 2/10/2015

1	0	0	0				

69. Survey (1, 0, N)