

# 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]	Knox County [083]	Middlebury [49658]	0.3 MI SOUTH OF BLAIR RD	40-30-42 = 40.511667	082-36-54 = - 82.615000
4236580	Highway agency district 5	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 369		COOKE ROAD	Toll On free road [3]	Features intersected TRIB. N. BR. KOKOSING	
Design - main	Concrete [1]	Design - approach		Kilometerpoint	0 km = 0.0 mi
1	Arch - Deck [11]	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	15.9 m = 52.2 ft	Length of maximum span	15.2 m = 49.9 ft	Deck width, out-to-out	4.6 m = 15.1 ft
Inventory Route, Total Horizontal Clearance	4 m = 13.1 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Not applicable [N]				
Type of wearing surface	Bituminous [6]				
Deck protection	Not applicable (applies only to structures with no deck) [N]				
Type of membrane/wearing surface	Not applicable (applies only to structures with no deck) [N]				

## Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	5.5 metric ton = 6.1 tons
0.6 km = 0.4 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	9.1 metric ton = 10.0 tons
	Bridge posting		Design Load	

### Functional Details

Average Daily Traffic	20	Average daily truck traffi	0	%	Year	1980	Future average daily traffic	28	Year	2027
Road classification	Local (Rural) [09]			Lanes on structure	1		Approach roadway width	4.9 m = 16.1 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	Work done by	Work to be done by contract [1]			
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	\$75,000	Roadway improvement cost	\$8,000	
	Length of structure improvement	27.4 m = 89.9 ft		Total project cost	\$89,000
	Year of improvement cost estimate	2003			
	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="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - superstructure	<input type="text" value="Critical [2]"/>	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="Poor [4]"/>	Appraisal ratings - deck geometry	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - deck	<input type="text" value="Critical [2]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour conditions; field review indicates action is required. [4]"/>		
Channel and channel protection	<input type="text" value="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	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="17.8"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text"/>		
Inspection date	<input type="text" value="April 2010 [0410]"/>	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="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

4

2

3

6

5

8

0

1

Structure File Number

7

Bridge Number

KNO

CO

00369

ROUTE

0067

UNIT

MIDDLEBURY TWP

Date Built 07/01/1900

District 05 Bridge Type CONCRETE/ARCH/FILLEDType Service 1 15 TRIB. N. BR. KOKOSINGKNO

DECK		Out/Out 15.2		THCK = 2.0		
1. Floor	N-NONE	8		2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
3. Curbs, Sidewalks, Walkways		N-NONE	9	4. Median		42
5. Railing	0-OTHER	10	4	6. Drainage	0-OTHER-NATURAL(OFF THE	43
7. Expansion Joints		N-NONE	11	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=50	2	10. Beams/Girders/Slab		N-N/A (CULVERTS, TRUSSES) 45
9. Alignment			12	12. Joists/Stringers		46
11. Diaphragms or Crossframes		TOT.LGTH=52	13	14. Floor Beam Connections		47
13. Floor Beams			14	16. Diagonals		48
15. Verticals			15	18. Top Chord		49
17. End Posts			16	20. Lower Lateral Bracing		50
19. Lower Chord			17	22. Sway Bracing		51
23. Portals			19	24. Bearing Devices		N-NONE N-NONE 52
25. Arch			20	26. Arch Columns or Hangers		53
27. Spandrel Walls			21	28. Protective Coating System		TYPE = N-NONE DATE = 54
29. Pins/Hangers/Hinges			22	30. Fatigue Prone Connections		55
31. Live Load Response			23	32. Summary		56
SUBSTRUCTURE		2-CONCRETE	3	PIERS=0		SPANS = 1
33. Abutments		2-CONCRETE	24	34. Abutment Seats		57
35. Piers		TYPE = N-NONE	25	36. Pier Seats		58
37. Backwalls			26	38. Wingwalls		ABUTMENT:=OTHER / OTHER 59
39. Fenders and Dolphins			27	40. Scour		4-STABLE: ACTION REQUIRE 60
41. Slope Protection		N-NONE	28	42. Summary		DIVE DT=N/A 62
CULVERTS				44. Alignment		63
43. General			29	46. Seams		64
45. Shape			30	48. Scour		65
47. Headwalls or Endwalls			31	50. Summary		66
49.			32			
CHANNEL				N-NONE		
51. Alignment			33	52. Protection		67
53. Waterway Adequacy			34	54. Summary		68
APPROACHES						
55. Pavement		2-BITUMINOUS	35	56. Approach Slabs		69
57. Guardrail		N-NONE	36	58. Relief Joints		70
59. Embankment		BRDG.WIDTH=13.0	37	60. Summary		PCT.LEGAL=25 71
GENERAL				ROUTINE.RESP: 3-COUNTY		2
61. Navigation Lights			38	62. Warning Signs		MAINT.RESP: 3-COUNTY 72
63. Sign Supports		MVC ON=9999 UND=0000	39	64. Utilities		73
65. Vertical Clearance			40	66. General Appraisal & Operational Status		COND 2 STAT P 74

67. INSPECTED BY68. REVIEWED BY

5

5

4

8

8

76 PE

SIGNED

J

L

W

78 INITIALS

SIGNED

81 PE

SIGNED

83 INITIALS

DOT 2852

DECK AREA 786

Date

0

5

2

4

1

1

86

91

0

0

0

0

N

N

N

N

92

69 Survey

99

Date

100

105

## STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

BR-86 REV 02-95

4	2	3	6	5	8	0
---	---	---	---	---	---	---

Bridge Number **KNO** **00369** **0067**  
CO ROUTE UNIT

Date Built 07/01/1900

District **05** Bridge Type **CONCRETE/ARCH/FILLED**

Type Service      1      15

TRIB. N. BR. KOKOSING

00 NO REMARKS FOUND FOR THIS INSPECTION.

Unit of Measure: <b>English</b>			Bridge Inventory Information			Report Date 08/21/2012 BM-191 Page: 1 of 2		
Structure File Number <b>4236580</b>			Inventory Bridge Number: <b>KNO 00369 0067</b>			BR. Type <b>CONCRETE / ARCH / FILLED</b>		
Sufficiency Rating: <b>17.8 SD</b>			ON TRIB. N. BR. KOKOSING			Date of Last Inventory Update: 05/31/2011		
District: <b>05</b> County <b>KNOX</b>			(101) Location: <b>0.3 MI SOUTH OF BLAIR RD</b>			(102) Facility Carried: <b>COOKE ROAD</b>		
(2)FIPS Code: <b>MIDDLEBURY 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>CONCRETE / ARCH / FILLED</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>00369</b> Dir:			Total Spans: 1			(65) Max Span: <b>50</b> Ft		
Des: <b>MAINLINE</b> Pref:						(66) Overall Leng: <b>52</b> Ft		
(4) Feature Intersected: <b>TRIB. N. BR. KOKOSING</b>			(70) Substructure			(71) Foundation and Scour Information		
(5) County: <b>MID</b> Mileage: <b>0067</b> Special Desig:			Abut-Rear Matl: <b>CONCRETE</b>			Type: <b>INTEGRAL</b> Fnd: <b>OTHER</b>		
(6) Avg. Daily Traffic(ADT): <b>20</b> (7) ADT Year: <b>1980</b>			Abut-Fwd Matl: <b>CONCRETE</b>			Type: <b>INTEGRAL</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>		
			Pier-Other Matl: <b>NONE</b>			Type: <b>NONE</b> Fnd: <b>NONE/NOT APPLICABLE (SUCH AS CULVERTS)</b>		
Intersected Route Data			No of Piers Predominate: <b>NN</b>			Other: <b>NN</b> Other: <b>NN</b>		
(22) Route On/Under:			(86) Stream Velocity: <b>UUU</b>			(74) Scour: <b>STABLE: ACTION REQUIRED TO PROTECT FND</b>		
Route No.: Dir:			(189) Dive: <b>N Freq: 0</b>			Probe: <b>Y Freq: 12</b> (75) Chan Prot: <b>NONE</b>		
Des: Pref:			(189) Date of last Dive Insp:			(152) Drainage Area: <b>UUU</b> Sq Mi		
(23) Feature Intersected:								
(24) County: Mileage: Special Desig:								
(25) Avg. Daily Traffic(ADT): <b>0</b> (26) ADT Year:								
(27) Truck Traf: <b>0</b> (28) NHS: - (29) Corridor:								
(30) Functional Class: (36) Strahnt: <b>Not Applicable</b>								
Clearance On the Bridge			Clearance Under the Bridge					
(154) Min Hriz on Bridge: NC: <b>0.0</b> Ft Card: <b>13.0</b> Ft			(156) Min. Horiz Under Clear:			NC: <b>0.0</b> Ft Card: <b>0.0</b> Ft		
(155) Prac Max Vert On Brg: <b>9999.9</b> Ft			(157) Prac Max Vrt Under Clear:			<b>0.0</b> Ft		
(67) Min Vrt Clr On Brg: NC: <b>0.0</b> Ft Card: <b>9999.9</b> Ft			(77) Min Vert Under Clear:			NC: <b>0.0</b> Ft Card: <b>0.0</b> Ft		
(80) Min Latl Clr: NC: <b>0.0 / 0.0</b> Ft Card: <b>0.0 / 0.0</b> Ft			(78) Min Lat Under Clear:			NC: <b>0.0 / 0.0</b> Ft Card: <b>0.0 / 0.0</b> Ft		
(81) Vrt Clr Lft: <b>0.0</b> Ft								
Structure Information			Load Rating Information (88-89) Appraisal					
(38) Bypass Length: <b>04</b> Miles			(48) Design Load: <b>UNKNOWN [DEFAULT]</b>			(Including calculated Items)		
(39) Latitude: <b>40 Deg 30.7 Min</b> Longitude: <b>82 Deg 36.9 Min</b>			(83) Operating: <b>10</b> Ton					
(40) Toll: <b>ON FREE ROAD</b>			Inventory: <b>6</b> Ton					
(41) Date Built: <b>07/01/1900</b> (42) Major Rehabilitation:			Ohio Percent of Legal Load <b>25</b>			(88) Waterway Adequacy <b>5</b>		
(43) No. Lanes On: <b>1</b> No. Lanes Under: <b>0</b>			Year of Rating: <b>1980</b>			(89) Approach Alignment <b>5</b>		
(44) Horiz Curve: <b>Deg. Min.</b> (45) Skew: <b>0</b> Deg			(84) Analysis: <b>ENGINEERING JUDGEMENT [DEFAULT]</b>			Calc Gen Appraisal: <b>2</b>		
(49) App. Rdw Width: <b>16</b> Ft (50) Brg. Rdw Width: <b>13.0</b> Ft			(85) Rate Soft: <b>NO SOFTWARE USED</b> Analyzed by:			Calc Deck Geometry: <b>5</b>		
(51) Deck Width: <b>15.2</b> Ft Deck Area: <b>786</b> Sq. Ft			Analysis on Bars: <b>NOT ON BARS [DEFAULT]</b>			Calc Underclearance: <b>N</b>		
(52) Median Type: <b>NONE / NON BARRIE / NO JOINT</b>			Approach Information					
(53) Bridge Median: <b>NO MEDIAN</b>			(109) Approach Guardrail: <b>NONE</b>					
(54) Sidewalks: (left) <b>0</b> Ft (right) <b>0</b> Ft			(110) Approach Pavement: <b>BITUMINOUS</b>			(111) Grade: <b>FAIR</b>		
(55) Type Curb or Sidewalks:			Culvert Information					
(Left) Matl: <b>NONE</b> Type: <b>NONE</b>			(131) Culvert Type: <b>NONE/NOT APPLICBLE</b>			(127) Length: <b>0.0</b> Ft		
(Right) Matl: <b>NONE</b> Type: <b>NONE</b>			(129) Depth of Fill: <b>0.0</b> Ft			(130) Headwalls: <b>NONE</b>		
(56) Flared: <b>N</b> (57) Composite: <b>non-composite</b>			General Information					
(58) Railing: <b>OTHER</b>			(121) Main Member <b>N/A (CULVERTS, TRUSSES, ETC.)</b>			(122) Moment Plate: <b>NOT APPLICABLE</b>		
(59) Deck Drainage: <b>OTHER-NATURAL(OFF THE BRIDGE ENDS)</b>			(169) Expansion Joint: <b>NONE</b>					
(60) Deck Type: <b>NONE</b>			(124) Bearing Devices: <b>NONE/NONE</b>					
(61) Deck Protection: External: <b>NONE</b>			(126) Navigation: <b>Control- N</b> Vert Clr: <b>0.0</b> Ft			Horiz Clear:: <b>0.0</b> Ft		
Internal: <b>NONE</b>			(193) Spec Insp: <b>N</b> Freq: <b>0</b>			Date:		
(62) Wearing Surface: <b>BITUM (ASPHLT CONCRT)</b>			(188) Fracture Critical Insp: <b>N</b> Freq: <b>0</b>			Date:		
Thickness: <b>2.0</b> in (119) Date of Wearing Surface:			(138) Long Member: <b>ONE CONCRETE ARCH</b>			(135) Hinges: <b>NOT APPLICABLE</b>		
Slope Protection: <b>NONE-NATURAL PROTECTION(GRASS,BUSHES)</b>			(141) Structural Steel Memb: <b>NONE</b>			(139) Framing: <b>NONE</b>		
			Pay Wt: <b>0</b> pounds Prime Loc: <b>NONE</b>			Railing: <b>NONE</b>		
			Bridge Dedicated Name:			Paint: <b>NONE</b>		

Report Date 08/21/2012 BM-191 Page: 2 of 2  
BR. Type CONCRETE/ARCH/FILLED  
Date of Last Inventory Update: 05/31/2011

## 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%