

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.  
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**Basic Information**

Ohio	Hamilton County	Unknown	NO DATA	0	0
3132021	Highway agency district: 8	Owner County Highway Agency	Maintenance responsibility County Highway Agency		
Route #Num!	NO DATA	Toll On free road	Features intersected MUDDY CREEK		
Design - main Steel	Design - approach	Kilometerpoint 0	Year built 1923	Year reconstructed 1970	
1	Truss - Thru	0	Other	Skew angle 0	Structure Flared
				Historical significance	Bridge is possibly eligible for the NRHP.
Total length 244.1	Length of maximum span 232	Deck width, out-to-out 28.9	Bridge roadway width, curb-to-curb 24		
Inventory Route, Total Horizontal Clearance 24	Curb or sidewalk width - left 5.6	Curb or sidewalk width - right 0			
Deck structure type	Concrete Cast-in-Place				
Type of wearing surface	Other				
Deck protection					
Type of membrane/wearing surface					

**Weight Limits**

Bypass, detour length 0.3	Method to determine inventory rating Load Factor(LF)	Inventory rating 6.9
	Method to determine operating rating Load Factor(LF)	Operating rating 23.8
Bridge posting	Design Load	M 18 / H 20

### Functional Details

Average Daily Traffic  Average daily truck traffic  % Year  Future average daily traffic  Year

Road classification  Lanes on structure  Approach roadway width  Bridge median

Type of service on bridge  Direction of traffic

Parallel structure designation

Type of service under bridge  Lanes under structure

Navigation vertical clearance  Navigation control  Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge  Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right  Minimum lateral underclearance on left

Minimum Vertical Underclearance  Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

### Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost  Roadway improvement cost

Length of structure improvement  Total project cost

Year of improvement cost estimate

Border bridge - state  Border bridge - percent responsibility of other state

Border bridge - structure number

### Inspection and Sufficiency

Structure status	Posted for load	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement
Condition ratings - superstructure	Critical	Appraisal ratings - roadway alignment	Equal to present minimum criteria
Condition ratings - substructure	Serious	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement
Condition ratings - deck	Fair		
Scour	Scour calculation/evaluation has not been made.		
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel.		
Appraisal ratings - water adequacy	Equal to present minimum criteria	Status evaluation	Structurally deficient
Pier or abutment protection		Sufficiency rating	13.7
Culverts	Not applicable. Used if structure is not a culvert.		
Traffic safety features - railings	Inspected feature meets currently acceptable standards.		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards.		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards.		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards.		
Inspection date	Sep-08	Designated inspection frequency	12
Underwater inspection	Not needed	Underwater inspection date	
Fracture critical inspection	Every two years	Fracture critical inspection date	Oct-07
Other special inspection	Not needed	Other special inspection date	

Unit of Measure: **English**  
Structure File Number **3132021**  
Sufficiency Rating: **13.7 SD**

**Bridge Inventory Information**  
Inventory Bridge Number:**HAM C0209 0050**  
**ON MUDDY CREEK**

Report Date **12/29/2010** BM-191 Page: 1 of 2  
**BR. Type STEEL / TRUSS / THRU**  
Date of Last Inventory Update: **02/03/2010**

District: <b>08</b>	County <b>HAMILTON</b>	(101) Location: <b>NO DATA</b>	(102) Facility Carried: <b>CLEVES WARSAW RD.</b>
(2)FIPS Code: <b>GREEN TWP</b>		(103) Route On Bridge: <b>COUNTY</b>	(104) Route Under Bridge: <b>NON-HIGHWAY</b>
(9) Direction of Traffic: <b>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/PEDESTRIAN</b>	(Under): <b>WATERWAY</b>

<b>Inventory Route Data</b>		(63) Main Spans Number: 1	Type: <b>STEEL / TRUSS / THRU</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>C0209</b> Dir:	Des: <b>MAINLINE</b> Pref:	Total Spans: 1	(65) Max Span: <b>232</b> Ft
(4) Feature Intersected: <b>MUDDY CREEK</b>			(66) Overall Leng: <b>244</b> Ft

(5) County: <b>HAM</b> Mileage: <b>0050</b> Special Desig:	(70) Substructure	(71) Foundation and Scour Information	
(6) Avg. Daily Traffic(ADT): <b>2,200</b> (7) ADT Year: <b>1975</b>	Abut-Rear Matl: <b>CONCRETE AND STONE</b> Type: <b>GRAVITY</b>	Fnd: <b>UNKNOWN (OR OLDER BRIDGE BEING ADDED)</b>	
(8) Truck Traf: <b>0</b> (14) NHS: <b>NO - X</b> (15) Corridor: <b>N</b>	Abut-Fwd Matl: <b>CONCRETE AND STONE</b> Type: <b>GRAVITY</b>	Fnd: <b>UNKNOWN (OR OLDER BRIDGE BEING ADDED)</b>	
(16) Functional Class: <b>MINOR ARTERIAL-URBAN</b> (19) Strahnt: <b>Not Applicable</b>	Pier-Pred Matl: <b>NONE</b> Type: <b>NONE</b>	Fnd: <b>UNKNOWN (OR OLDER BRIDGE BEING ADDED)</b>	
	Pier-Other Matl: <b>NONE</b> Type: <b>NONE</b>	Fnd: <b>UNKNOWN (OR OLDER BRIDGE BEING ADDED)</b>	
	Pier-Other Matl: <b>NONE</b> Type: <b>NONE</b>	Fnd: <b>UNKNOWN (OR OLDER BRIDGE BEING ADDED)</b>	

<b>Intersected Route Data</b>		No of Piers Predominate: <b>NN</b>	Other: <b>NN</b>	Other: <b>NN</b>
(22) Route On/Under:	Hwy Sys:	(86) Stream Velocity: <b>UUU</b>	(74) Scour: <b>STABLE: EVAL SCOUR ABOVE TOP OF FOOTING</b>	
Route No.: Dir:	Des: Pref:	(189) Dive: <b>N Freq: 0</b>	Probe: <b>N Freq: 0</b>	(75) Chan Prot: <b>RIP RAP (DUMPED ROCK OR ROCK)</b>
(23) Feature Intersected:		(189) Date of last Dive Insp:	(152) Drainage Area: <b>UUUU</b> Sq Mi	
(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>			

<b>Clearance On the Bridge</b>			<b>Clearance Under the Bridge</b>		
(154) Min Hriz on Bridge:	NC: <b>0.0</b> Ft	Card: <b>24.0</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>17.9</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>17.9</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				

<b>Structure Information</b>		<b>Load Rating Information</b>		<b>(88-89) Appraisal</b>	
(38) Bypass Length: <b>03</b> Miles		(48) Design Load: <b>H/20</b>	(Including calculated Items)		
(39) Latitude: <b>0</b> Longitude: <b>0</b>		(83) Operating: <b>24</b> Ton			
(40) Toll: <b>ON FREE ROAD</b>		Inventory: <b>7</b> Ton			
(41) Date Built: <b>07/01/1923</b>	(42) Major Rehabilitation: <b>01/01/1970</b>	Ohio Percent of Legal Load <b>50</b>	(88) Waterway Adequacy <b>6</b>		
(43) No. Lanes On: <b>2</b>	No. Lanes Under: <b>0</b>	Year of Rating: <b>2007</b>	(89) Approach Alignment <b>6</b>		
(44) Horiz Curve: <b>Deg. Min.</b>	(45) Skew: <b>0</b> Deg	(84) Analysis: <b>COMBINATION OF METHODS</b>	Calc Gen Appraisal: <b>2</b>		
(49) App. Rdw Width: <b>32</b> Ft	(50) Brg. Rdw Width: <b>24.0</b> Ft	(85) Rate Soft: <b>COMBINATION</b> Analyzed by: <b>B&amp;N</b>	Calc Deck Geometry: <b>2</b>		
(51) Deck Width: <b>28.7</b> Ft	Deck Area: <b>6997</b> Sq. Ft	Analysis on Bars: <b>NOT ON BARS [DEFAULT]</b>	Calc Underclearance: <b>N</b>		

<b>Approach Information</b>			
(52) Median Type: <b>NONE / NON BARRIE / NO JOINT</b>		(109) Approach Guardrail: <b>STEEL BEAM</b>	
(53) Bridge Median: <b>NO MEDIAN</b>		(110) Approach Pavement: <b>BITUMINOUS</b>	(111) Grade: <b>GOOD</b>
(54) Sidewalks: (left) <b>5</b> Ft (right) <b>0</b> Ft			
(55) Type Curb or Sidewalks:			

<b>Culvert Information</b>			
(56) Flared: <b>N</b> (57) Composite:		(131) Culvert Type: <b>NONE/NOT APPLICBLE</b>	(127) Length: <b>0.0</b> Ft
(58) Railing: <b>STL GUARDRL ON STL, CONCR, OR TMBR POSTS</b>		(129) Depth of Fill: <b>0.0</b> Ft	(130) Headwalls: <b>NONE</b>
(59) Deck Drainage: <b>OTHER-NATURAL(OFF THE BRIDGE ENDS)</b>			

<b>General Information</b>			
(60) Deck Type: <b>REINF CONCRT (PRESTRSD, PRECAST)</b>		(121) Main Member <b>RIVETED BUILT-UP STEEL</b>	(122) Moment Plate: <b>NONE</b>
(61) Deck Protection: External: <b>NONE</b> Internal: <b>NONE</b>		(169) Expansion Joint: <b>SLIDING METAL PLATE ANGLE</b>	
(62) Wearing Surface: <b>OTHER</b>		(124) Bearing Devices: <b>ROLLERS/NONE</b>	
Thickness: <b>3.1</b> in (119) Date of Wearing Surface:		(126) Navigation: <b>Control- N</b> Vert Clr: <b>0.0</b> Ft	Horiz Clear:: <b>0.0</b> Ft
Slope Protection: <b>NONE-NATURAL PROTECTION(GRASS,BUSHES)</b>		(193) Spec Insp: <b>N</b> Freq: <b>0</b>	Date:
		(188) Fracture Critical Insp: <b>Y</b> Freq: <b>24</b>	Date: <b>2009-12-16</b>
		(138) Long Member: <b>TWO TRUSSES (WELDED)</b>	(135) Hinges: <b>NOT APPLICABLE</b>
		(141) Structural Steel Memb: <b>UNKNOWN</b>	(139) Framing: <b>NONE</b>
			Railing: <b>UNKNOWN</b>
			Paint: <b>OTHER</b>
		Pay Wt: <b>0</b> pounds	
		Prime Loc: <b>UNKNOWN</b>	
		Bridge Dedicated Name:	

Unit of Measure: **English**  
 Structure File Number **3132021**  
 Sufficiency Rating: **13.7 SD**

**Bridge Inventory Information**  
 Inventory Bridge Number: **HAM C0209 0050**  
**ON MUDDY CREEK**

Report Date **12/29/2010** **BM-191** Page: 2 of 2  
**BR. Type STEEL/TRUSS/THRU**  
 Date of Last Inventory Update: **02/03/2010**

**General Information (Continued) Original Plans Information**

(---) Hist Significance: **NON-REGISTERED HISTORIC BRIDGE** (69) NBIS: **Y**  
 (---) Hist Builder: **OHIO STATE HIGHWAY** Hist Build Year: **1923**  
**DEPARTMENT**  
 (69) Hist Type: **CAMELBACK (RIVETED)**  
 (161) Special Features (see below):  
 (105) Border Bridge State: Resp % (106) SFN:

(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**

**Proposed Improvements Programming Info**

(90) Type Work: -  
 (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: **2027**

(153) Repair Projects  
 1. / **MMM** 2. / **020** 3. / **020**  
 4. 5. 6.  
 7. 8. 9.  
 10.

**Inspection Summary (I-69) Survey Items**

(I-8) Deck: <b>5</b>	Railings: <b>1 MEETS CURRENT STANDARDS</b>
(I-32) Superstructure: <b>2</b>	Transitions: <b>1 MEETS CURRENT STANDARDS</b>
(I-42) Substructure: <b>3</b>	Guardrail: <b>1 MEETS CURRENT STANDARDS</b>
(I-50) Culvert:	Rail Ends: <b>1 MEETS CURRENT STANDARDS</b>
(I-54) Channel: <b>5</b>	Pavement Mark: <b>1 MEETS CURRENT STANDARDS</b>
(I-60) Approaches: <b>4</b>	Restrict Sign: <b>N NONE N/A</b>
(I-66) General Appraisal: <b>2</b>	Warning Sign: <b>N NONE N/A</b>
(I-66) Operational Status: <b>P</b>	End Markers: <b>N NONE N/A</b>
Inspection Date: <b>06/02/2010</b>	Insp. Update Date: <b>09/20/2010</b>
(94) Desig Insp Freq: <b>12 Months</b>	

**Utilities Special Features**

(46) Electric: <b>U</b>	(161) Lighting: <b>N</b>
Gas: <b>U</b>	Fencing: <b>N</b>
Sanitary Sewer: <b>U</b>	Glare-Screen: <b>N</b>
Telephone: <b>U</b>	Splash-Guard: <b>N</b>
TV Cable: <b>U</b>	Catwalks: <b>N</b>
Water: <b>U</b>	Other-Feat: <b>U</b>
Other: <b>U</b>	(184) Signs-on: <b>N</b>
	Signs-Under: <b>N</b>
	(162) Fence-Ht: <b>0.0 Ft</b>
	(163) Noise Barr: <b>N</b>

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: **HAM-C0209-0050 -**  
 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  
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3	1	3	2	0	2	1
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Bridge Number **HAM C0209 0050**  
CO ROUTE UNIT

GREEN TWP

Date Built **07/01/1923 - 1970**

District **08** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 55 MUDDY CREEK**

**HAM**

<b>DECK</b>		Out/Out 28.7			THCK = 3.1	
1. Floor	1-REINF CONCRT (PRESTRSD	8	2	2. Wearing Surface	0-OTHER	41
3. Curbs, Sidewalks, Walkways	2-STEEL	9	2	4. Median	W.S. Date =	42
5. Railing	7-STL GUARDRL ON STL, CO	10	2	6. Drainage	0-OTHER-NATURAL(OFF THE	43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	4	<b>8. Summary</b>		44
<b>SUPERSTRUCTURE</b>		MAX.SPAN=232				
9. Alignment		12	1	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL	45
11. Diaphragms or Crossframes	TOT.LGTH=244	13		12. Joists/Stringers		46
13. Floor Beams		14	2	14. Floor Beam Connections		47
15. Verticals		15	3	16. Diagonals		48
17. End Posts		16	2	18. Top Chord		49
19. Lower Chord		17	3	20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18	1	22. Sway Bracing		51
23. Portals		19		24. Bearing Devices	1-ROLLERS N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1992	54
29. Pins/Hangers/Hinges		22	3	30. Fatigue Prone Connections		55
31. Live Load Response		23	S	<b>32. Summary</b>		56
<b>SUBSTRUCTURE</b>		3-CONCRETE AND STONE		PIERS=0	SPANS = 1	
33. Abutments	3-CONCRETE AND STONE	24	3	34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls		26	3	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN	59
39. Fenders and Dolphins		27		40. Scour	8-STABLE: EVAL SCOUR ABO	60
41. Slope Protection	N-NONE	28		<b>42. Summary</b>	DIVE DT=N/A	62
<b>CULVERTS</b>						
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
<b>CHANNEL</b>					5-RIP RAP (DUMPED ROCK OR ROCK)	
51. Alignment		33	2	52. Protection		67
53. Waterway Adequacy		34	2	<b>54. Summary</b>		68
<b>APPROACHES</b>						
55. Pavement	2-BITUMINOUS	35	3	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	2	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=24.0	37	2	<b>60. Summary</b>	PCT.LEGAL=50	71
<b>GENERAL</b>					ROUTINE.RESP: 3-COUNTY	
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=17.9 UND=0000	39		64. Utilities		73
65. Vertical Clearance		40	1	<b>66. General Appraisal &amp; Operational Status</b>		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

6	5	5	5	3
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76 PE

T	A	B
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78 INITIALS

SIGNED

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81 PE

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83 INITIALS

DOT 2852

DECK AREA 6,997

Date

0	6	0	2	1	0
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86

91

1	1	1	1	1	N	N	N
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92

69 Survey

99

Date

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100

105

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3	1	3	2	0	2	1
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1 Structure File Number 7

Bridge Number **HAM** **C0209** **0050**  
CO ROUTE UNIT

**Date Built 07/01/1923 - 1970**

District **08** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 5 5**

**MUDDY CREEK**

00 NO REMARKS FOUND FOR THIS INSPECTION.

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