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								41-01-23 =	082-43-04 = -
Ohio [39] Huron County [077]			New Haven [54	lew Haven [54712] 0.4 MI NORTH OF MAY ROAD			41.023056	82.717778	
3946479	Highway agenc	sy district 3	Owner Coun	Owner County Highway Agency [02]			Maintenance responsibility		gency [02]
Route #Num! BUCKINGHAN 181				On free road [3]	Featu	ıres intersect	ed BUCKINGH	AM / MARSH RUN	
Design - Steel [3] main Truss - Th	ru [10]	Design - approach 0 Othe	r [00]	Kilometer Year built Skew ang Historical	1922	Year reco	onstructed 1997 red not eligible for the		
Total length 18 m = 59.1 ft Length of maximum span 16.5 m = 54.1 ft Deck width, out-to-out 6.2 m = 20.3 ft Bridge roadway width, curb-to-curb 5.2 m = 17.1 ft Inventory Route, Total Horizontal Clearance 5.2 m = 17.1 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 0 m = 0.0 ft									
Deck structure type Wood or Timber [8] Type of wearing surface Bituminous [6] Deck protection Type of membrane/wearing surface Type of membrane/wearing surface									
Weight Limits Bypass, detour length 1.3 km = 0.8 mi	Method to determine	ine inventory ratinç ine operating ratinç Equal to or above	g Load Fact	. , ,		ing rating	32.4 metric ton = 32.4 metric ton = 7 H 20 [4]		

Functional Details	
Average Daily Traffic 609 Average daily tr	uck traffi 5 % Year 2004 Future average daily traffic 845 Year 2030
Road classification Local (Rural) [09]	Lanes on structure 2 Approach roadway width 7 m = 23.0 ft
Type of service on bridge Highway [1]	Direction of traffic 2 - way traffic [2] Bridge median
Parallel structure designation No parallel structure	e exists. [N]
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control Not applicable, no waterway. [N]
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A
Minimum navigation vertical clearance, vertical lift brid	Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft
Minimum lateral underclearance reference feature Fe	ature 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 improvement cost \$53,000 Roadway improvement cost \$5,000
bridge roadway geometry. [31]	Length of structure improvement 26.8 m = 87.9 ft Total project cost \$61,000
	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 Posted for load [P]		Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]					
Condition ratings - superstructur Poor [4]		Appraisal ratings - roadway alignment						
Condition ratings - substructure			Appraisal ratings - deck geometry Basically intolerable requiring high priority of replacement [2]					
Condition ratings - deck	Satisfactory [6]	deck geometry						
Scour		Bridge foundations (including piles) on dry land well above flood water elevations. [9]						
Channel and channel protection	Bank protection is in need of Banks and/or channel have n		rol devices and embankment prot	ection have a little minor damage.				
Appraisal ratings - water adequac	y Superior to present desirable	criteria [9]	Status evaluation	Structurally deficient [1]				
Pier or abutment protection			Sufficiency rating	45.2				
Culverts Not applicable. Used if structure is not a culvert. [N]								
Traffic safety features - railings								
Traffic safety features - transition	S							
Traffic safety features - approach	guardrail							
Traffic safety features - approach	guardrail ends							
Inspection date October 2010 [1010] Designated inspection frequency 12 Months								
Underwater inspection	Not needed [N]	Underwater inspe	ction date					
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date October 2010 [1010]						
Other special inspection	Not needed [N]	Other special insp	ection date					

Unit of Measure: English Structure File Number 3946479 Sufficiency Rating: 45.2 SD			Bridge Inventory Information Inventory Bridge Number:HUR T0181 ON BUCKINGHAM / MARSH RU	0043	Report Date 09/04/2012 BM-191 Page: 1 of 2 BR. Type STEEL / TRUSS / PONY (TRUSS) Date of Last Inventory Update: 03/09/2011			
District: 03 County HURC (2)FIPS Code: NEW HAVEN TWP (9) Direction of Traffic: 2-WAY TRAFFIC (10) Temporal (95) Insp: COUNTY (96) Maint: COUNTY (97) Routine: COUNTY		Temporary: N	(101) Location: 0.4 MI NORTH OF MAY ROAD (103) Route On Bridge: TOWNSHIP (11)Truck Network: N (100) Type Serv: (On): HIGHWAY			(102) Facility Carried: BUCKINGHAN 181 (104) Route Under Bridge: NON-HIGHWAY (12)Parallel: N (Under): WATERWAY		
	ry Route Data		(63) Main Spans Number: 1	Type: STEEL / TRUSS / PC		()		
(3) Route On/Under: ON		TOWNSHIP HIGHWAY	Approach Spans Number: 0	Type: NONE / NONE / NONE	` ,			
Route No.: T0181 Dir:	Des: MAINLINE Pref:		Total Spans: 1	(65) Max Span: 54 Ft		(66) Overall Leng: 59 Ft		
(4) Feature Intersected: BUCKINGHAM	/ MARSH RUN		(70) Substructure	(71) Foundation and Scour	Information	, ,		
(5) County: NHT Mileage: 0043	Special Desig:		Abut-Rear Matl: CONCRETE	Type: SOLID WALL		Fnd: SPREAD FOOTING		
(6) Avg. Daily Traffic(ADT): 609	(7) ADT Year: 2004		Abut-Fwd Matl: CONCRETE	Type: PROPRIETARY WAI	LL W/STUB T	Fnd: SPREAD FOOTING		
(8) Truck Traf: 31 (14) NHS: NO - X			Pier-Pred Matl: NONE	Type: NONE		Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
(16) Functional Class: Local ROAD-RURAL	(19)	Strahnt: Not Applicable	Pier-Other Matl: NONE	Type: NONE		Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
	ted Route Data		Pier-Other Matl: NONE	Type: NONE		Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
(22) Route On/Under:	Hwy Sys:		No of Piers Predominate: NN	Other: NN		Other: NN		
Route No.: Dir:	Des:	Pref:	(86) Stream Velocity: 000.0	(74) Scour: FND/PILES AB	OVE FLOOD	WATER ELEVATIONS		
(23) Feature Intersected:			(189) Dive: N Freq: 0	Probe: Y Freq: 12		(75) Chan Prot: NONE		
(24) County: Mileage:	Special Desig:		(189) Date of last Dive Insp:	(152) Drainage Area: 011 S				
(25) Avg. Daily Traffic(ADT): 0	(26) ADT Year:				nder the Bridg			
(27) Truck Traf: 0 (28) NHS: -	(29) Corridor:	Ottobar Nat Ameliaabla	(156) Min. Horiz Under Clear:	NC: 0.0 Ft		Card: 0.0 Ft		
(30) Functional Class:		Strahnt: Not Applicable	(101) I las max III silasi sisaii	0.0 Ft				
	e On the Bridge NC: 0.0 Ft	Cord. 47.2 Ft	(77) Min Vert Under Clear:	NC: 0.0 Ft		Card: 0.0 Ft		
(154) Min Hriz on Bridge: (155) Prac Max Vert On Brg:	9999.9 Ft	Card: 17.2 Ft	(78) Min Lat Under Clear:	NC: 0.0 / 0.0 Ft		Card: 0.0 / 0.0 Ft		
(67) Min Vrt Clr On Brg:	NC: 0.0 Ft Card: 9999.9 Ft NC: 0.0 / 0.0 Ft Card: 3.2 / 3.5 Ft					(88-89) Appraisal alculated Items)		
(80) Min Latl Clr:								
(81) Vrt Clr Lft:	0.0 Ft	Card. 3.27 3.3 1 t	(83) Operating: 36 Ton					
` '	re Information		Inventory: 26 Ton		(00) \\(\)	A da		
(38) Bypass Length: 08 Miles	o illioritidation		Ohio Percent of Legal Load 100		(88) Waterway			
(39) Latitude: 41 Deg 1.4 Min	Longitude: 82 Deg	43.1 Min	Year of Rating: 2010 (84) Analysis: LOAD FACTOR (LF)		(89) Approach Calc Gen App	=		
(40) Toll: ON FREE ROAD	. J		(85) Rate Soft: OTHER Analyzed by: BLN		Calc Gen App			
(41) Date Built: 07/01/1922	(42) Major Rehabilit	tation: 01/01/1991	Analysis on Bars: NOT ON BARS [DEFAUL	TI	Calc Undercle	· ·		
(43) No. Lanes On: 2	No. Lanes Under: 0		Analysis on Bars. NOT ON BARO [BET ACE	-	Information	Saranoc. IV		
(44) Horiz Curve: 00 Deg. D00M Min.	(45) Skew: 20 Deg		(109) Approach Guardrail: NONE	Арргосоп	momation			
(49) App. Rdw Width: 23 Ft	(50) Brg. Rdw Width	n: 17.2 Ft	(110) Approach Pavement: BITUMINOUS		(111) Grade: (GOOD		
(51) Deck Width: 20.2 Ft	Deck Area: 1195 Sc	դ. Ft	Culvert Information					
(52) Median Type: NONE / NON BARRII	E / NO JOINT		(131) Culvert Type: NONE/NOT APPLICBL		(127) Length:	0.0 Ft		
(53) Bridge Median: NO MEDIAN			(129) Depth of Fill: 0.0 Ft		(130) Headwa			
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft		General I	nformation			
(55) Type Curb or Sidewalks:			(121) Main Member N/A (CULVERTS, TRUS			(122) Moment Plate: NONE		
(Left) Matl: NONE	Type: NONE		(169) Expansion Joint: NONE	•		,		
(Right) Matl: NONE	Type: NONE	••	(124) Bearing Devices: SLIDING (BRONZE))/NONE				
(56) Flared: N	(57) Composite: no	n-composite	(126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft		
(58) Railing: OTHER	WO DDID STRIP		(193) Spec Insp: N	Freq: 0		Date:		
(59) Deck Drainage: OVER THE SIDE (W/O DRIP STRIP)			(188) Fracture Critical Insp: Y Freq: 24			Date: 2010-10-21		
(60) Deck Type: LAMINATED TIMBER STRIP (61) Deck Protection: External: NONE			(138) Long Member: TWO TRUSSES (WELDED)			(135) Hinges: NOT APPLICABLE		
Internal: NONE			(141) Structural Steel Memb: UNKNOWN			(139) Framing: NONE		
(62) Wearing Surface: BITUM (ASPHLT	CONCRT)					Railing: UNKNOWN		
	aring Surface: 01/01/20	000	Pay Wt: 79 pounds	Prime Loc: UNKNOWN		Paint: OTHER		
Slope Protection: NONE-NATURAL PRO	0		Bridge Dedicated Name:					
The state of the s			ļ					

Unit of Measure: English
Structure File Number 3946479
Sufficiency Rating: 45.2 SD

Bridge Inventory Information
Inventory Bridge Number: HUR T0181 0043
ON BUCKINGHAM / MARSH RUN

General Information (Continued)

Report Date 09/04/2012 BM-191 Page: 2 of 2 BR. Type STEEL/TRUSS/PONY (TRUSS) Date of Last Inventory Update: 03/09/2011

Original Plans Information

() Hist Significance: NO	T HISTORIC			(69) NBIS: Y	(142) Fabricator: OHIO BR	IDGE				
() Hist Builder: UNKNOWN Hist Build Year: 1922 (1					(143) Contractor: HURON CO HWY					
(69) Hist Type: WARREN (RIVETED)					(144) Ohio Original Construction Project No.:					
(161) Special Features (s	ee below):				() Microfilm Reel:					
(105) Border Bridge State: Resp % (106) SFN:					(151) Standard Drawing:					
	•	Improvements		Programming Info	Aperture Cards: Orig: N Re	pair: N Fabr: N				
(90) Type Work: 31 - BRG/STR REPLSUBSTD LD CAP OR RDW GEOM PID Number:				Plan Information Available:	2FIELD MEASURED IN	FORMATION				
				PID Status:		(1	153) Repair Projects			
(90) Length: Ft				PID Date:	1. / 020	2. / MMM	3. /	020		
(90) Bridge Cost (\$1000s)): 0			•	4. 910000 / 003	5.	6.			
(90) Roadway Cost (\$100	,				7.	8.	9.			
(90) Total Project Cost (\$	1000s): 0	(90) Y	'ear:		10.					
(91) Future ADT (On Brid	• ,	(92) Y	ear of Future ADT:	2030						
Inspection Sum	nmary		(I-69) Survey It			Jtilities	Sp	pecial Features		
(I-8) Deck:	6	Railings:		ET CURRENT STANDARDS	` '	N	(161) Lighting:	N		
(I-32) Superstructure:	4	Transitions:		ET CURRENT STANDARDS		N	Fencing:	N		
(I-42) Substructure:	4	Guardrail:		ET CURRENT STANDARDS	,	N	Glare-Screen:	N		
(I-50) Culvert:		Rail Ends:		ET CURRENT STANDARDS	Telephone:	N	Splash-Guard:	N		
(* * *) * * * * * * * * * * * * * * * *	7	In Depth:		ENT STANDARDS	TV Cable:	N	Catwalks:	N		
()	5	Fracture Critical:		ENT STANDARDS	Water:	N	Other-Feat:	N		
(I-66) General Appraisial:		Scour Critical:	N NONE N/A		Other:	N	(184) Signs-on:	N		
(I-66) Operational Status:		Critical Findings:	N NONE N/A				Signs-Under:	N		
-1	07/16/2011	Insp. Update Date:	12/02/2011				(162) Fence-Ht:	0.0 Ft		
(94) Desig Insp Freq:	12 Months						(163) Noise Barr:	N		
					_					
SFNs Replacing this retire	ed bridge:		-							
SFNs That where replace	ed by this bridg	je:	-							
This bridge was retired ar	nd copied to:									
The bridge was copied from	om:				INV Field Bridge Marker:		HUR-T0181-0043 -			
					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						
		(*) Pe	rcentages S	hou	ıld a	dd t	o 10	00%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

3 9 4 6 4 7 9

3 9 4 6 4 7 9	Bridge Number HUR T018	1 0	043 NEW HAVEN TWP Date Built 07/01/1922 - 19	<u>991</u>
1 Structure File Number 7 District 03 Bridge Type STEEL/TRUSS/PON	Y (TRUSS)	Ε (Τ)	/pe Service 1 15 BUCKINGHAM / MARSH RUN HUR	
DECK	Out/Out 20.2	2	THCK = 2.0	2
1. Floor	2-LAMINATED TIMBER STRIP 8 N-NONE	_	2. Wearing Surface 6-BITUM (ASPHLT CONCRT) 41 W.S. Date = 01/01/2000	
3. Curbs, Sidewalks, Walkways	N-NONE 9		4. Median 42	
		2		2
5. Railing	0-OTHER 10		6. Drainage 1-OVER THE SIDE (W/O DRI 43	
7. Expansion Joints	N-NONE 11		8. Summary 44	6
SUPERSTRUCTURE	MAX.SPAN=54	3		
9. Alignment	TOT.LGTH=59		10. Beams/Girders/Slab N-N/A (CULVERTS, TRUSSES 45	
11. Diaphragms or Crossframes	13		12. Joists/Stringers 46	2
13. Floor Beams		2	14. Floor Beam Connections 47	3
13. Floor Bealtis	14	3	14. Floor Beam Connections 47	2
15. Verticals	15	3	16. Diagonals 48	2
17. End Posts	16	3	18. Top Chord 49	3
		3		
19. Lower Chord	17		20. Lower Lateral Bracing 50	
21. Top Lateral Bracing	18		22. Sway Bracing 51	
OO Dowledo			3-SLIDING (BRONZE)	2
23. Portals	19		24. Bearing Devices N-NONE 52	
25. Arch	20		26. Arch Columns or Hangers TYPE = 0-OTHER	
27. Spandrel Walls	21		28. Protective Coating System DATE = 01/01/1993 54	5
	2.			2
29. Pins/Hangers/Hinges	22		30. Fatigue Prone Connections 55	
31. Live Load Response	23	Е	32. Summary 56	4
SUBSTRUCTURE	2-CONCRETE	2	PIERS=0 SPANS = 1	3
33. Abutments	2-CONCRETE 24	_	34. Abutment Seats 57	
35. Piers	TYPE = N-NONE 25		36. Pier Seats 58	
37. Backwalls		2	ABUTMENT:=SPREAD / SPREAD	3
37. Dackwalls	26		38. Wingwalls 59	1
39. Fenders and Dolphins	27		40. Scour 9-FND/PILES ABOVE FLOOD 60	1
41. Slope Protection	N-NONE 28		42. Summary DIVE DT=N/A 62	4
CULVERTS			,	П
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	
CHANNEL		1	N-NONE	
51. Alignment	33		52. Protection 67	
53. Waterway Adequacy	34	1	54. Summary 68	7
<u>APPROACHES</u>		2		
55. Pavement	2-BITUMINOUS 35		56. Approach Slabs	
57. Guardrail	N-NONE 36		58. Relief Joints	
59. Embankment	BRDG.WIDTH=17.2 37	2	60. Summary PCT.LEGAL=100 71	5
GENERAL	BRDG.WID1H=17.2 3/		60. Summary	Н
61. Navigation Lights	38		62. Warning Signs MAINT.RESP: 3-COUNTY 72	3
63. Sign Supports	MVC ON=9999 UND=0000		64. Utilities 73	
оэ. эідіг эирропъ	39	N.I	64. Utilities 73	STAT
65. Vertical Clearance	40	N	66. General Appraisal & Operational Status 74	$\hat{\Box}$
67. INSPECTED BY			68. REVIEWED BY	
	5 5 4 8 8 J W			
SIGNED	76 PE 78 INITIALS	3	SIGNED 81 PE 83 INITIALS	
DOT 2852 DECK AREA 1,195	Date 0 7 1 6 1 1		0 0 0 0 1 1 N N Date	15

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

BR-86 REV 02-95

3 9 4 6 4 7 9

1 Structure File Number 7

00

District **03** Bridge Type **STEEL/TRUSS/PONY (TRUSS)**

Bridge Number HUR 70181 0043 ROUTE UNIT

Type Service <u>1</u> <u>1</u> <u>5</u>

Date Built 07/01/1922 - 1991

BUCKINGHAM / MARSH RUN

NO REMARKS FOUND FOR THIS INSPECTION.