

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 [39] Morrow County [117] Peru [62260] .2 MI.E.INT.CR24 & TR21 40-25-06 = 40.418333 082-51-12 = - 82.853333

5932440 Highway agency district 6 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! TR21 Toll On free road [3] Features intersected ALUM CREEK

Design - main Aluminum, Wrought Iron or Cast Iron [9] Design - approach Other [00] Kilometerpoint 0 km = 0.0 mi

1 Truss - Thru [10] 0 Other [00] Year built #Num! Year reconstructed 1974

Skew angle 0 Structure Flared

Historical significance Historical significance is not determinable at this time. [4]

Total length 19.2 m = 63.0 ft Length of maximum span 18.9 m = 62.0 ft Deck width, out-to-out 3.7 m = 12.1 ft Bridge roadway width, curb-to-curb 3.7 m = 12.1 ft

Inventory Route, Total Horizontal Clearance 3.7 m = 12.1 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 Wood or Timber [7]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.5 km = 0.3 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 5.5 metric ton = 6.1 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 7.1 metric ton = 7.8 tons

Bridge posting Design Load

Functional Details

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

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc 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 [P]

Appraisal ratings -
structural

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - superstructure

Serious [3]

Appraisal ratings -
roadway alignment

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - substructure

Fair [5]

Appraisal ratings -
deck geometry

Basically intolerable requiring high priority of replacement [2]

Condition ratings - deck

Satisfactory [6]

Scour

Bridge foundations determined to be stable for assessed or calculated scour condition. [5]

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

Equal to present desirable criteria [8]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

16.3

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 2010 [1110]

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 2009 [1109]

Other special inspection

Not needed [N]

Other special inspection date

Unit of Measure: **English**
Structure File Number **5932440**
Sufficiency Rating: **16.3 SD**

Bridge Inventory Information
Inventory Bridge Number: **MRW T0021 05886 22**
ON ALUM CREEK

Report Date **08/21/2012** **BM-191** Page: 1 of 2
BR. Type WROUGHT IRON / TRUSS / THRU
Date of Last Inventory Update: **03/20/2012**

District: **06** County **MORROW** (101) Location: **.2 MILE.INT.CR24 & TR21** (102) Facility Carried: **TR21**
(2) FIPS Code: **PERU TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **ONE LANE FOR 2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **N** (12) Parallel: **N**
(95) Insp: **COUNTY** (96) Maint: **COUNTY** (97) Routine: **COUNTY** (100) Type Serv: (On): **HIGHWAY** (Under): **WATERWAY**

Inventory Route Data
(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY** (63) Main Spans Number: 1 Type: **WROUGHT IRON / TRUSS / THRU**
Route No.: **T0021** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **62** Ft (66) Overall Leng: **63** Ft

(4) Feature Intersected: **ALUM CREEK** (70) Substructure (71) Foundation and Scour Information
(5) County: **PRU** Mileage: **05886** Special Desig: **22** Abut-Rear Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(6) Avg. Daily Traffic(ADT): **250** (7) ADT Year: **1992** Abut-Fwd Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(8) Truck Traf: **5** (14) NHS: **NO - X** (15) Corridor: **N** 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)**
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**

Intersected Route Data
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **NN** Other: **NN** Other: **NN**
Route No.: Dir: Des: Pref: (86) Stream Velocity: **UUU** (74) Scour: **STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE**
(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: **UUU** Sq Mi

(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:
(30) Functional Class: (36) Strahnt: **Not Applicable**

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

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **12.1** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft 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: **40 Deg 25.1 Min** Longitude: **82 Deg 51.2 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1900** (42) Major Rehabilitation: **01/01/1974**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **19** Ft (50) Brg. Rdw Width: **12.0** Ft
(51) Deck Width: **12.0** Ft Deck Area: **753** Sq. Ft
(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **N** (57) Composite: **non-composite**

Load Rating Information (88-89) Appraisal
(48) Design Load: **UNKNOWN [DEFAULT]** (Including calculated Items)
(83) Operating: **8** Ton
Inventory: **6** Ton
Ohio Percent of Legal Load **20** (88) Waterway Adequacy **8**
Year of Rating: **2011** (89) Approach Alignment **3**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **3**
(85) Rate Soft: **OTHER** Analyzed by: **DHT** Calc Deck Geometry: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information
(109) Approach Guardrail: **STEEL BEAM**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **CRITICAL**

Culvert Information
(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

General Information
(121) Main Member **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **SLIDING (OTHER)/NONE**
(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: **2010-08-16**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **NONE** (139) Framing: **NONE**
Railing: **OTHER**
Paint: **NONE**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **5932440**
 Sufficiency Rating: **16.3 SD**

Bridge Inventory Information
 Inventory Bridge Number: **MRW T0021 05886 22**
ON ALUM CREEK

Report Date **08/21/2012** BM-191 Page: 2 of 2
 BR. Type **WROUGHT IRON/TRUSS/THRU**
 Date of Last Inventory Update: **03/20/2012**

General Information (Continued) Original Plans Information

(---) Hist Significance: **NOT HISTORIC** (69) NBIS: **Y**
 (---) Hist Builder: **UNKNOWN** Hist Build Year: **1900**
 (69) Hist Type: **PRATT (PINNED)**
 (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:

Proposed Improvements **Programming Info**
 (90) Type Work: - PID Number:
 (90) Length: Ft PID Status:
 (90) Bridge Cost (\$1000s): **0** PID Date:
 (90) Roadway Cost (\$1000s): **0**
 (90) Total Project Cost (\$1000s): **0** (90) Year:
 (91) Future ADT (On Bridge): **0** (92) Year of Future ADT: **2033**

Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**
 Plan Information Available: **1 PLAN INFORMATION AVAILABLE**
 (153) Repair Projects
 1. / **MMM** 2. 3.
 4. 5. 6.
 7. 8. 9.
 10.

Inspection Summary (I-69) Survey Items
 (I-8) Deck: **6** Railings: **0 DOES NOT MEET CURRENT STANDARDS**
 (I-32) Superstructure: **3** Transitions: **0 DOES NOT MEET CURRENT STANDARDS**
 (I-42) Substructure: **5** Guardrail: **0 DOES NOT MEET CURRENT STANDARDS**
 (I-50) Culvert: Rail Ends: **0 DOES NOT MEET CURRENT STANDARDS**
 (I-54) Channel: **5** In Depth: **0 DOES NOT MEET CURRENT STANDARDS**
 (I-60) Approaches: **5** Fracture Critical: **N NONE N/A**
 (I-66) General Appraisal: **3** Scour Critical: **N NONE N/A**
 (I-66) Operational Status: **P** Critical Findings: **N NONE N/A**
 Inspection Date: **12/22/2011** Insp. Update Date: **03/13/2012**
 (94) Desig Insp Freq: **12 Months**

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

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: **MRW-T0021-05886-22**
 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%

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BR-86 REV 02-95

5	9	3	2	4	4	0
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Bridge Number **MRW T0021 05886 22** PERU TWP
CO ROUTE UNIT

Date Built **07/01/1900 - 1974**

District **06** Bridge Type **WROUGHT IRON/TRUSS/THRU**

Type Service **1 15 ALUM CREEK**

MRW

DECK		Out/Out 12.0	1	THCK = 0.0	1
1. Floor	2-LAMINATED TIMBER STRIP	8	1	2. Wearing Surface	7-TIMBER 41
		N-NONE		W.S. Date =	
3. Curbs, Sidewalks, Walkways		N-NONE	9	4. Median	42
5. Railing	6-STEEL POST & STEEL PAN	10	2	6. Drainage	1-OVER THE SIDE (W/O DRI) 43
7. Expansion Joints		N-NONE	11	8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=62	2		
9. Alignment		12	2	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES) 45
		TOT.LGTH=63			
11. Diaphragms or Crossframes		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	3	18. Top Chord	49
19. Lower Chord		17	2	20. Lower Lateral Bracing	50
21. Top Lateral Bracing		18		22. Sway Bracing	51
23. Portals		19		24. Bearing Devices	A-SLIDING (OTHER) 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	S	32. Summary	56
SUBSTRUCTURE		2-CONCRETE	2	PIERS=0	SPANS = 1
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats	57
35. Piers	TYPE = N-NONE	25		36. Pier Seats	58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN 59
39. Fenders and Dolphins		27		40. Scour	5-STABLE: SCOUR WITHIN L 60
41. Slope Protection	N-NONE	28		42. Summary	DIVE DT=N/A 62
CULVERTS					
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					
51. Alignment		33	3	52. Protection	N-NONE 67
53. Waterway Adequacy		34	1	54. Summary	68
APPROACHES					
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs	69
57. Guardrail	1-STEEL BEAM	36	3	58. Relief Joints	70
59. Embankment	BRDG.WIDTH=12.0	37	2	60. Summary	PCT.LEGAL=20 71
GENERAL					
61. Navigation Lights		38		62. Warning Signs	ROUTINE.RESP: 3-COUNTY MAINT.RESP: 3-COUNTY 72
63. Sign Supports	MVC ON=9999 UND=0000	39		64. Utilities	73
65. Vertical Clearance		40	N	66. General Appraisal & Operational Status	74

67. INSPECTED BY

68. REVIEWED BY

SIGNED _____ 76 PE

4	8	5	7	3
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 78 INITIALS

D	H	G
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SIGNED _____ 81 PE

4	5	8	5	8
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 83 INITIALS

L	R	B
---	---	---

DOT 2852

DECK AREA 753

Date

1	2	2	2	1	1
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 86 91

0	0	0	0	0	N	N	N
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 92 69 Survey 99

Date

0	3	0	6	1	2
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 100 105

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5	9	3	2	4	4	0
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1 Structure File Number 7

Bridge Number **MRW T0021 05886 22**
CO ROUTE UNIT

Date Built 07/01/1900 - 1974

District **06** Bridge Type **WROUGHT IRON/TRUSS/THRU**

Type Service **1 15**

ALUM CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.
