



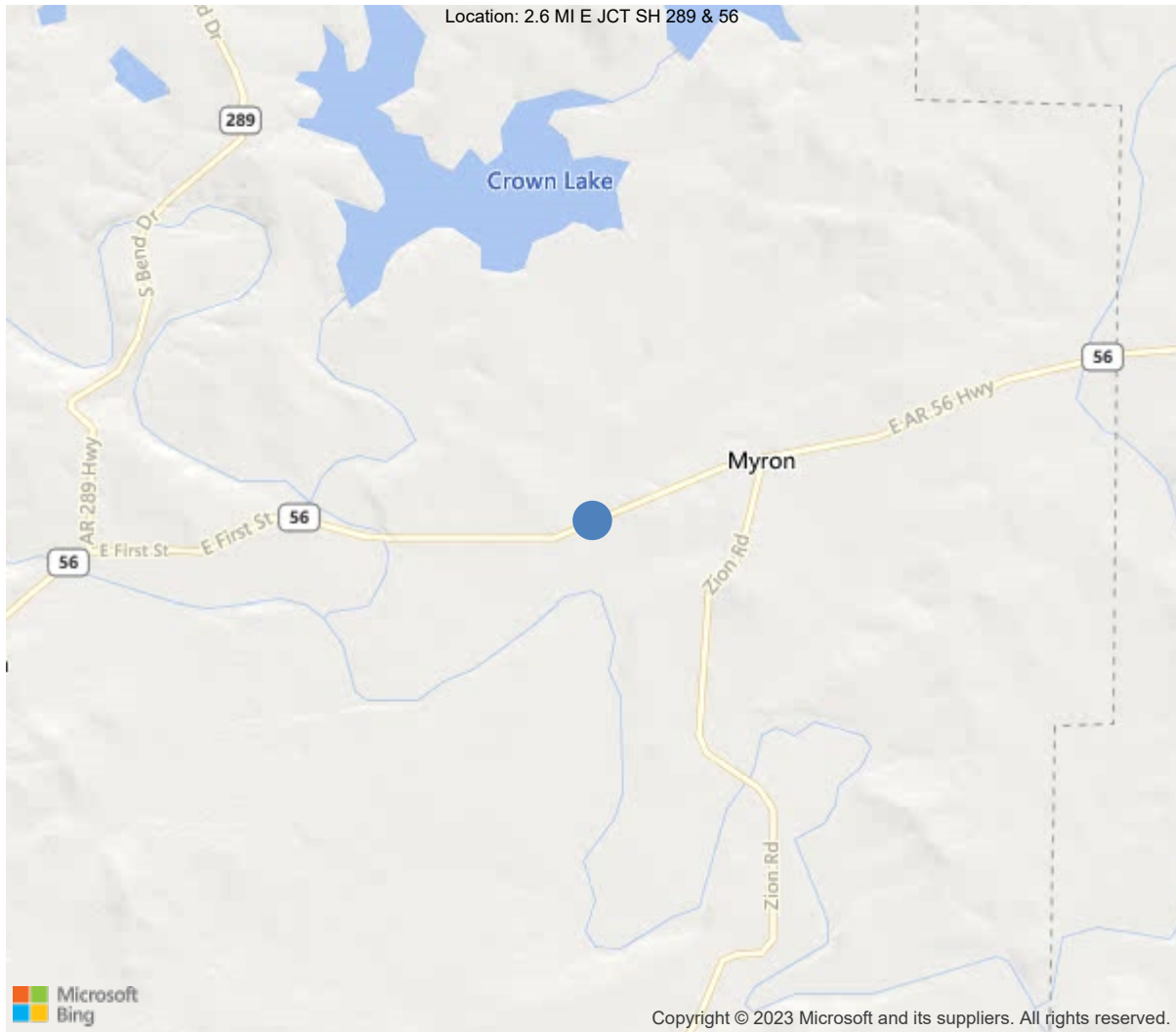
Latitude:36.17913, Longitude:-91.72050

Route:56 Section:02 Log:12.967

Arnold Road ID:33x56x2xA, Arnold Log mile:12.973

District 05, 65 - Izard County

Owner: 1 - State Highway Agency



36.17913, -91.72050



Asset #M1026(Routine)

SH 56 Izard County over CREEK

Location: 2.6 MI E JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M1026
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	65 - Izard County
(4) Place Code	0
(6) Features Intersected	CREEK
(7) Facility Carried	SH 56 Izard County
(9) Location	2.6 MI E JCT SH 289 & 56
(11) Mile Point	12.967 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000056020
(16) Latitude	36.1791305962313
(17) Longitude	-91.7205034530427
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	5
(46) No. of Approach Spans	0
(107) Deck Structure Type	2 - Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1957
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	1228
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	12 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	95 ft
(50) Curb or Sidewalk Width	
Left	0.8 ft
Right	0.8 ft
(51) Bridge Roadway Width Curb to Curb	23.3 ft
(52) Deck Width Out to Out	25.1 ft
(32) Approach Roadway Width (W/Shoulders)	22 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	25.6 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	6 - Rural Minor Arterial
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	3
(60) Substructure	3
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	3
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	0
(70) Bridge Posting	0 - > 39.9% below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	122 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 445
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1427
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	11/15/2022		
(91) Frequency	12		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



Asset #M1026(Routine)

District: 05, County: 65 - IZARD COUNTY

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

General Observation

Elevation with Log Mile running to the Right.

A-19 - Code 4 (Beginning) (3)

Load Posting @ Abutment 1.

A-20 - Code 4 (end) (3)

Load Posting @ Abutment 2.

A-46 - Asset Files

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A-51 - Inspection Direction (4 - W to E)

Roadway with Log Mile running West to East.



Asset #M1026(Routine)

SH 56 Izard County over CREEK

Location: 2.6 MI E JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2386	2344	40	2	0
1120	Efflorescence/Rust Staining	SF	42	0	40	2	0
510	Wearing Surfaces	SF	2214	2074	0	140	0
3220	Crack (Wearing Surface)	SF	140	0	0	140	0
(16) Some minor areas of efflorescent. cracking to soffit. SEE FORM III							
110	Reinforced Concrete Open Girder/Beam	LF	665	270	90	237	68
1080	Delamination/Spall/Patched Area	LF	24	0	14	10	0
1090	Exposed Rebar	LF	185	0	0	117	68
1120	Efflorescence/Rust Staining	LF	57	0	0	57	0
1130	Cracking (RC and Other)	LF	129	0	76	53	0
(110) Large spalls with rebar exposed to girders @ all spans. Areas of delam. & cracking @ all spans. SEE FORM III							
205	Reinforced Concrete Column	EA	12	0	8	4	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	8	0	6	2	0
1190	Abrasion/Wear (PSC/RC)	EA	3	0	2	1	0
(205) vertical cracks to columns. Scaling to bottom of columns @ Bents 3 & 4.							
215	Reinforced Concrete Abutment	LF	73	0	0	73	0
1080	Delamination/Spall/Patched Area	LF	4	0	0	4	0
1090	Exposed Rebar	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
6000	Scour	LF	55	0	0	55	0
(215) SEE FORM III							
234	Reinforced Concrete Pier Cap	LF	104	0	10	74	20
1080	Delamination/Spall/Patched Area	LF	30	0	10	20	0
1090	Exposed Rebar	LF	28	0	0	8	20
1130	Cracking (RC and Other)	LF	46	0	0	46	0

Team Lead: Nathan Edwards, **Inspection Date:** 11/15/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(234) Large spalls with rebar exposed to bottom of caps. Horizontal cracking to caps. Spalls with rebar exposed, some with 100% section loss to bottom of cap @ Bents 1, 2 & 3. Abutment 1 - 1' spall with 7" rebar exposed to face of column 1. Abutment 2 - Several horizontal cracks under Units 1, 3, 5, 6 & 7. SEE FORM III							
304	Open Expansion Joint	LF	100	0	0	100	0
2350	Debris Impaction	LF	100	0	0	100	0
(304) Joint not visible due to Chip Seal overlay.							
330	Metal Bridge Railing	LF	190	0	190	0	0
1000	Corrosion	LF	190	0	190	0	0
515	Steel Protective Coating	SF	570	190	0	380	0
3440	Effectiveness (Steel Protective Coatings)	LF	380	0	0	380	0
(330) Metal rails have minor rust.							

Asset #M1026(Routine)

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	665	270	90	237	68
1080	Delamination/Spall/Patched Area	LF	24	0	14	10	0
1090	Exposed Rebar	LF	185	0	0	117	68
1120	Efflorescence/Rust Staining	LF	57	0	0	57	0
1130	Cracking (RC and Other)	LF	129	0	76	53	0
(110) Large spalls with rebar exposed to girders @ all spans. Areas of delam. & cracking @ all spans. SEE FORM III							

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	0	8	4	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	8	0	6	2	0
1190	Abrasion/Wear (PSC/RC)	EA	3	0	2	1	0
(205) vertical cracks to columns. Scaling to bottom of columns @ Bents 3 & 4.							
215	Reinforced Concrete Abutment	LF	73	0	0	73	0
1080	Delamination/Spall/Patched Area	LF	4	0	0	4	0
1090	Exposed Rebar	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
6000	Scour	LF	55	0	0	55	0
(215) SEE FORM III							
234	Reinforced Concrete Pier Cap	LF	104	0	10	74	20
1080	Delamination/Spall/Patched Area	LF	30	0	10	20	0
1090	Exposed Rebar	LF	28	0	0	8	20
1130	Cracking (RC and Other)	LF	46	0	0	46	0
(234) Large spalls with rebar exposed to bottom of caps. Horizontal cracking to caps. Spalls with rebar exposed, some with 100% section loss to bottom of cap @ Bents 1, 2 & 3. Abutment 1 - 1' spall with 7" rebar exposed to face of column 1. Abutment 2 - Several horizontal cracks under Units 1, 3, 5, 6 & 7. SEE FORM III							



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SH 56 Izard County over CREEK

Location: 2.6 MI E JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Elevation with Log Mile running to the Right.



Roadway with Log Mile running West to East.

Maintenance Needs

Date Reported: 11/29/2012
Priority: A - Safety deficiency; requires prompt action
Type of Work: Repair (General)
Status: Assigned
Component: Element

Deficiency Description

Areas of delamination, cracking, spalls & spalls with rebar exposed, some with 100% section loss & areas of concrete not adhered to rebar to caps @ Bents 1 - 4.

Remarks



Spalls with rebar exposed with s/l & areas that are not adhered to concrete @ bottom of cap @ Bent 1.(#4)



Spalls with rebar exposed with 100% s/l to bottom of cap @ Bent 1.(#4)



Spalls with rebar exposed with 100% s/l to bottom of cap @ Bent 3.(#4)



Typical of Caps at Bents 1, 2, & 3 have delaminated areas, cracks & heavy spalls with rebar exposed. (Ahead side Bent 1)



Delaminating areas with large deep spalls with rebar exposed to bottom of cap between columns at Bents 1, 2, & 3.(Bottom of cap Bent 1)



Areas of delamination, large deep spalls with rebar exposed & heavy cracking to concrete caps at Bent 1, 2, 3, & 4.
Bent 1.



Areas of delamination, large deep spalls with rebar exposed & heavy cracking to concrete caps at Bent 1, 2, 3, & 4.
Bent 2.



Asset #M1026(Routine)

SH 56 Izard County over CREEK

Location: 2.6 MI E JCT SH 289 & 56

Team Lead: Nathan Edwards, **Inspection Date:** 11/15/2022

Date Reported: 11/29/2012

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Spalls & cracking to Abutment 2

Vertical cracks to all columns at Bents 1 thru 4.

Remarks



Typical of Delaminating areas with large deep spalls with rebar exposed to bottom of cap between columns at Bents 1, 2, & 3.



Typical of Spalls with rebar exposed to:
Units 2, 4, 5, & 6 at Span 1.
Units 3, 4, 5, & 6 at Span 2.
Units 1 thru 7 at Span 3.
Units 3, 4, 5, & 6 at Span 4.
(Unit 5 Span 2)



Spalls & cracking to Abutment 2.



Vertical cracks to all columns at Bents 1 thru 4.

Date Reported: 11/29/2012
Priority: A - Safety deficiency; requires prompt action
Type of Work: Repair (General)
Status: Assigned
Component: Element

Deficiency Description

Large spalls with rebar exposed to girders:

Span 1 - Units 2, 3, 4, 5, 6, 7, with areas of concrete not adhered to rebar @ Units 4, 5 & 6.

Span 2 - Units 3, 4, 5, 6, with areas of concrete not adhered to rebar @ Units 4, 5 & 6.

Span 3 - Units 1, 2, 3, 4, 5, 6, 7, with areas of concrete not adhered to rebar @ Units 4 & 6.

Span 4 - Units 2, 3, 4, 5, 6 & 7, with areas of concrete not adhered to rebar @ Units 4 & 6.

Span 5 - Units 3 & 6, with areas of concrete not adhered to rebar @ Unit 3

Remarks



Spalls with rebar exposed with s/l @ areas not adhered to concrete @ Unit 6 @ Span 1.



Spalls with rebar exposed with s/l @ areas not adhered to concrete @ Units 4 & 5 @ Span 2.



Spalls with rebar exposed with s/l @ areas not adhered to concrete @ Unit 6 @ Span 3.



Typical of Spalls with rebar exposed to:
Units 2, 4, 5, & 6 at Span 1.
Units 3, 4, 5, & 6 at Span 2.
Units 1 thru 7 at Span 3.
Units 3, 4, 5, & 6 at Span 4.
(Unit 5 Span 2)



Typical of Spalls with rebar exposed to:
Units 2, 4, 5, & 6 at Span 1.
Units 3, 4, 5, & 6 at Span 2.
Units 1 thru 7 at Span 3.
Units 3, 4, 5, & 6 at Span 4.
(Span 3)



Large spalls with rebar exposed to girders:
Span 1 - Units 2, 3, 4, 5, 6, 7.



Large spalls with rebar exposed to girders:
Span 2 - Units 3 ,4, 5, 6.



Asset #M1026(Routine)

SH 56 Izard County over CREEK

Location: 2.6 MI E JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	



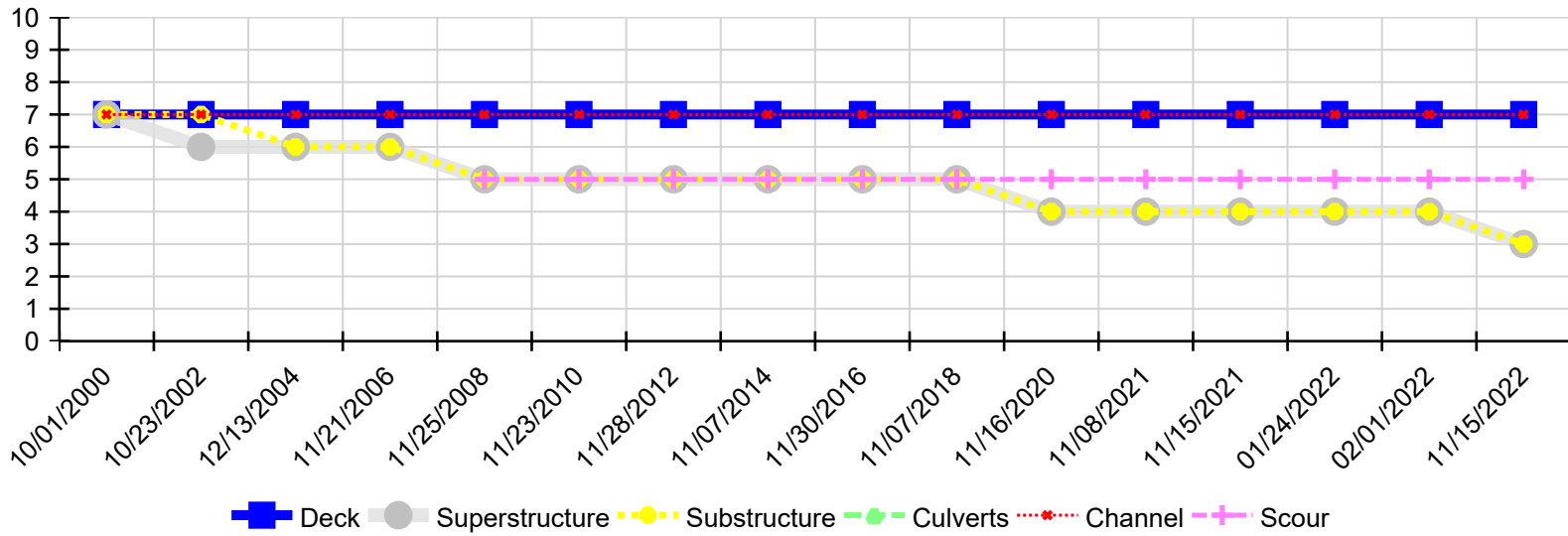
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SH 56 Izard County over CREEK

Location: 2.6 MI E JCT SH 289 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/15/2022	7	3	3	N	7	5
02/01/2022	7	4	4	N	7	5
01/24/2022	7	4	4	N	7	5
11/15/2021	7	4	4	N	7	5
11/15/2021	7	4	4	N	7	5
11/08/2021	7	4	4	N	7	5
11/16/2020	7	4	4	N	7	5
11/07/2018	7	5	5	N	7	5
11/30/2016	7	5	5	N	7	5
11/07/2014	7	5	5	N	7	5
11/28/2012	7	5	5	N	7	5
11/23/2010	7	5	5	N	7	5
11/25/2008	7	5	5	N	7	5
11/21/2006	7	6	6	N	7	N
12/13/2004	7	6	6	N	7	N
10/23/2002	7	6	7	N	7	N
10/01/2000	7	7	7	N	7	N