



Latitude:34.70730, Longitude:-91.45478

Route:33 Section:05 Log:3.149

Arnold Road ID:59x33x5xA, Arnold Log mile:3.143

District 06, 117 - Prairie County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

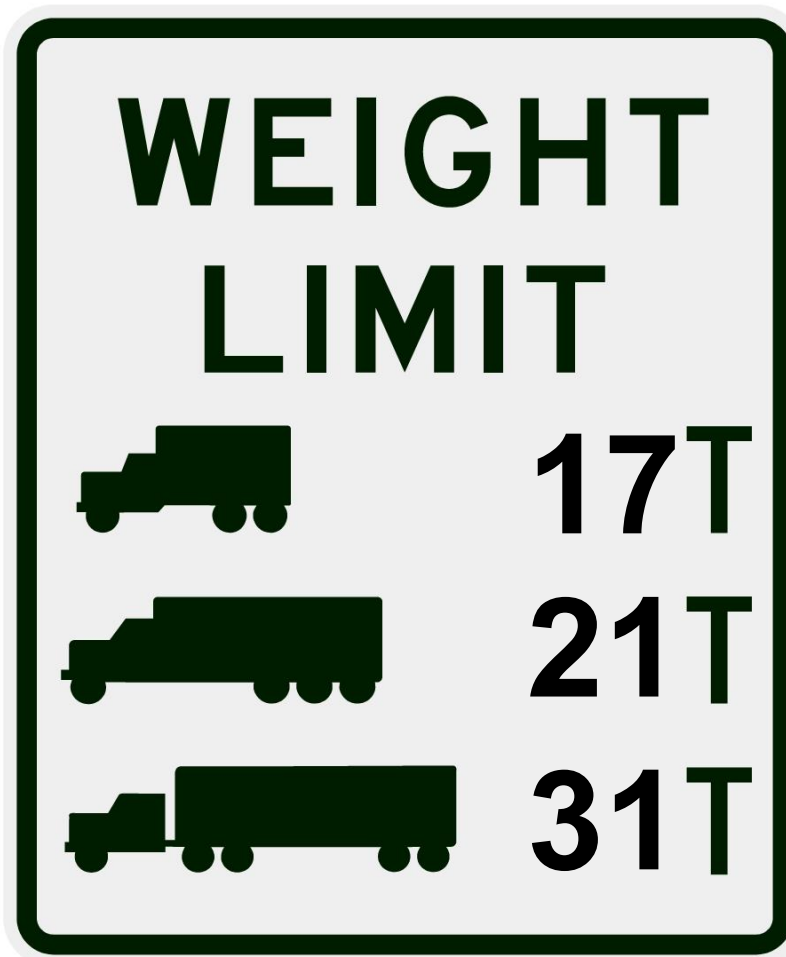
Bridge Posting Information

41 - Structure Open/Posted/Closed: P - Posted for load (may include other restrictions such a temporary bridges which are load posted)

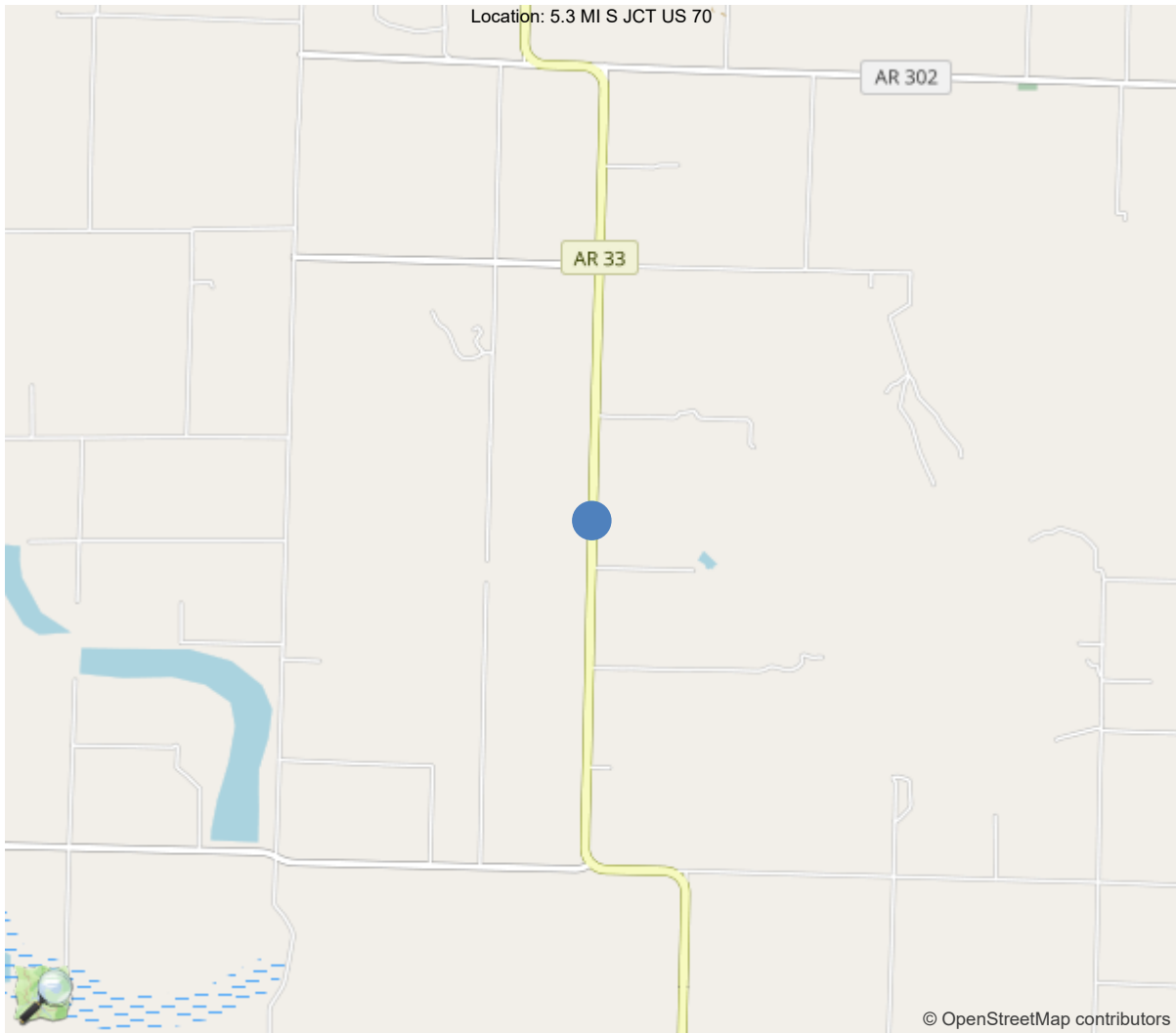
70 - Bridge Posting: 1 - 30.0 - 39.9 % below

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	17	17	17
Code 9 (31 Tons)	21	21	21
Code 5 (40 Tons)	31	31	31

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



34.70730, -91.45478



Asset #M0756(Routine)

SH 33 Log 3.15 over HONEY CREEK

Location: 5.3 MI S JCT US 70

Team Lead: Bryan Saunders Inspection Date: 03/27/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M0756
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	117 - Prairie County
(4) Place Code	0
(6) Features Intersected	HONEY CREEK
(7) Facility Carried	SH 33 Log 3.15
(9) Location	5.3 MI S JCT US 70
(11) Mile Point	3.149 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.707298
(17) Longitude	-91.454781
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	72
Material	7 - Wood or timber
Type	2 - Stringer/Multi-beam or girder
(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	1 - Concrete Cast-in-Place
(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	600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	15 ft
(49) Structure Length	74.5 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	21.3 ft
(52) Deck Width Out to Out	22.2 ft
(32) Approach Roadway Width (W/Shoulders)	20 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	21.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	7 - Rural Major Collector
(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	6
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	5
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	2
(64) Operating Rating	
Type	2 - Allowable Stress(AS)
Rating	21
(65) Inventory Rating Method	2 - Allowable Stress(AS)
(66) Inventory Rating	
Type	
Rating	13
(70) Bridge Posting	1 - 30.0 - 39.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	8
(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	100 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 280
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	698
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/27/2024		
(91) Frequency	12		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* 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.			



General Observation

Revised sketch linked due to repairs and asphalt overlay. 03/21/17

Boat needed.

Logged North bound.

Sketch updated due to asphalt overlay thickness and channel profile added. 03/09/2021

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Bituminous wearing surface and deck in general is in overall good condition.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Overall the timber superstructure is in satisfactory condition with minor cracks in the timber girders.

60 - Substructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Overall fair condition with some decay to multiple timber pile and the timber cap ends.

bent 6 has scour hole at west end undermining timber cribbing.

channel waded with chest high waders and pile probed with range pole 2023.

A-64 - Vegetation Removal Requested (Y)

Large trees and logs in channel against the upstream end of substructure.

A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (6 - Widespread minor or isolated moderate scour.)

channel waded with chest high waders and pile probed with range pole

bent 6 has scour hole at west end undermining timber cribbing

Team Lead: Bryan Saunders **Inspection Date:** 03/27/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1559	1409	75	75	0
1080	Delamination/Spall/Patched Area	SF	150	0	75	75	0
510	Wearing Surfaces	SF	1577	1277	300	0	0
3220	Crack (Wearing Surface)	SF	300	0	300	0	0
(12) Right & Left side of deck has concrete deterioration at gutter line.							
(510-12) longatudional cracks							
111	Timber Open Girder/Beam	LF	969	837	105	27	0
1140	Decay/Section Loss	LF	27	0	0	27	0
1160	Crack (Timber)	LF	105	0	105	0	0
(111) span 1 girder 8 is cracked, state forces have replaced girder 13 at span 1. Span 2 girders 1,3 and 7, 11 have splits and decayed. cs3 Span 3 girders 7,8, 11 and 13 have cracks and are decayed. cs3 Span 4 girders 1 is decayed cs3 Span 5 girders 2, is cracked. State forces have replaced girder 1, 12, and 13. 12 and 13 were replaced with sandwiched beams And have used plywood shim at girder to cap.							
216	Timber Abutment	LF	57	0	10	47	0
1140	Decay/Section Loss	LF	42	0	10	32	0
6000	Scour	LF	15	0	0	15	0
(216) The cribbing at both abutments have \ decayed sections on both ends.							
Bent 6 timber cribbing is undermined from erosion							
228	Timber Pile	EA	30	8	14	8	0
1140	Decay/Section Loss	EA	5	0	0	5	0
1160	Crack (Timber)	EA	17	0	14	3	0
(228) Bent 6, all piles are cracked Bent 6 pile 3 has a decayed area 2' long 2" deep cs3 Bent 5, piles 1,4&5 have been replaced by state forces. Bent 4 piles 3 and 2 are decayed and split cs3. Bent 3 all piles are cracked cs3. Pile 3 has a crack with decay cs3 Bent 2 piles 1,2,3 and 4 are cracked cs2 pile 5 is hollow at the top cs3 Bent 1 all pile have been replaced in the past.							
235	Timber Pier Cap	LF	97	73	0	24	0
1140	Decay/Section Loss	LF	24	0	0	24	0
(235) The timber caps are decayed on the ends both left and right at all bents and abutments cs 3							



03/27/2024

Elevation



03/27/2024

Approach looking north



03/27/2024

Looking south at bent 5



03/27/2024

Load posting looking south



Load Posting looking north



Undersurface



Deck view



Superstructure



Downstream



Upstream



Concrete deteriorating at both left and right sides of the deck



span 5 girder 12 has a split to one of the bolted together girders.



03/20/2023

Span 5 girder 12 and 13 replaced with sandwiched beams



03/27/2024

Scour hole at bent 6 has undermined the cribbing at bent 6 pile 2



03/27/2024

Bent 3 pile 3 cracked with decay



03/27/2024

Decay to all ends of timber caps



03/27/2024

Tree has fallen on left bridge rail at bent 1 causing damage to 15'.



03/27/2024

Bridge rail post are loose on both left and right sides.



03/27/2024

Bent 2 pile 5 is decayed and split



03/20/2023

Bent 6 pile 3 has a decayed area 2' long 2" deep



Split at bent 4 pile 3

Maintenance Needs

Date Reported: 03/28/2019

Priority: B - Pressing

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Forward State

Component:

Deficiency Description

Logs and debris build up on west side of bridge restricting water flow

Remarks

Assigned Prairie 06591 6/20/19



Logs and debris on west side



Logs and debris on west side



Debris at bent 2 and 3 upstream end



Logs and debris build up on west side of bridge restricting water flow



Logs and debris build up on west side of bridge restricting water flow



Logs and debris build up at west end of the bridge



Logs and debris build up at west end of the bridge restricting water flow

Maintenance Needs

Date Reported: 03/21/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Deck both sides at gutter line have spalls due to concrete deterioration.

Remarks



Concrete deteriorating at both left and right sides of the deck



Span 1 left side spalling due to concrete deterioration.



Span 2 and 3 right side of deck has spalls



Span 1, left side of concrete deck is spalled



04/29/2020

Span 1 left side spalling due to concrete deterioration.

Maintenance Needs

Date Reported: 04/29/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Bent 2 pile 5 is split and hollow at the top

Bent 3 pile 3 is split and decayed.

Bent 6 pile 3 is split and decayed at bottom near concrete collar

Remarks



Bent 3 pile 3 cracked with decay



Bent 6 pile 3 split and decayed



Bent 2 pile 5 is decayed and split



Bent 2 cap over pile 5 has a 2'x 6" x1" deep decay



Bent 2 pile 5 is split and hollow at the top



Bent 3 pile 3 is split and decayed.



Bent 6 pile 3 is split and decayed at bottom near concrete collar



Bent 2 pile 5 is split and hollow at top. 2' of decay on cap.



Bent 6, pile 3: the pile is cracked and is decaying.

Maintenance Needs

Date Reported: 03/28/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component:

Deficiency Description

Timber cribbing at bent 6 is being undermined due to channel being block by trees and debris

Remarks



03/28/2024

Scour hole at bent 6 has undermined the cribbing at bent 6 pile 2



03/20/2023

Bent 6 scour hole



03/28/2022

Timber cribbing at bent 6 is being undermined due to channel being block by trees and debris

Maintenance Needs

Date Reported: 03/28/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component:

Deficiency Description

southwest bridge rail and northwest rail post is damaged from traffic impact

Remarks



Tree has fallen on left bridge rail at bent 1 causing damage to 15'.



Bridge rail post are loose on both left and right sides.



Guardrail damage at southwest end



Approach guardrail post laid over due to traffic impact



Left bridge rail is damaged



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	Yes

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (No)



Asset #M0756(Routine)

SH 33 Log 3.15 over HONEY CREEK

Location: 5.3 MI S JCT US 70

Team Lead: Bryan Saunders Inspection Date: 03/27/2024

A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (No)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

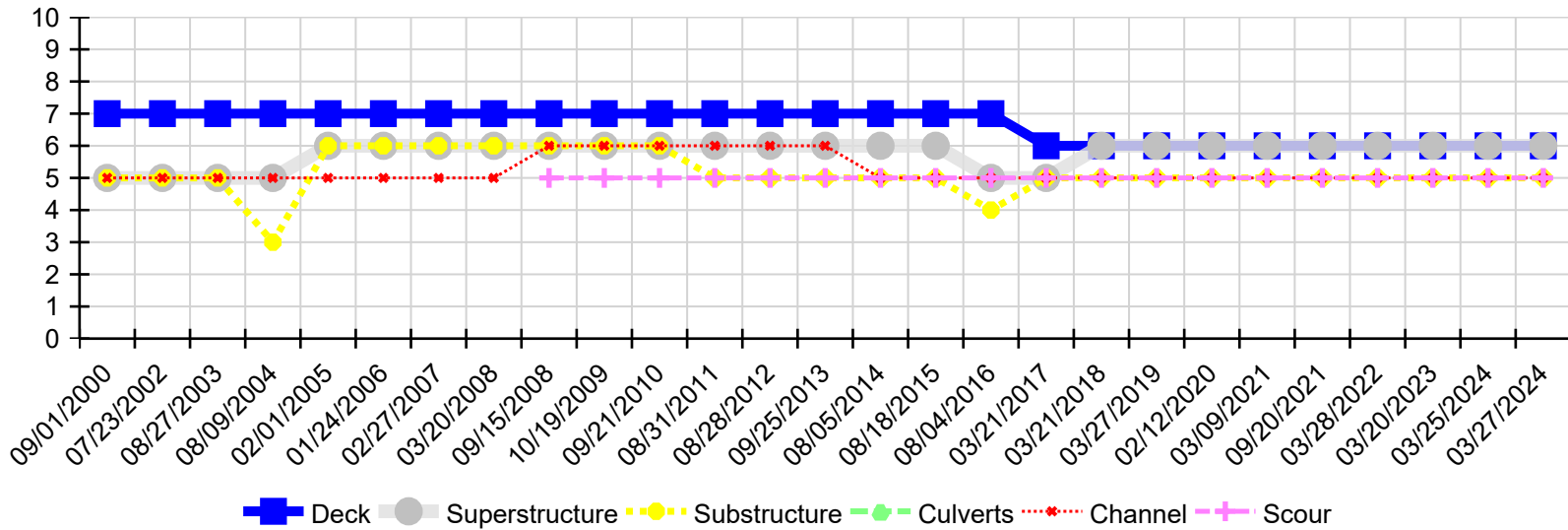
A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (Yes)

Large trees and logs in channel against the upstream end of substructure.



Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/27/2024	6	6	5	N	5	5
03/25/2024	6	6	5	N	5	5
03/20/2023	6	6	5	N	5	5
03/28/2022	6	6	5	N	5	5
09/20/2021	6	6	5	N	5	5
03/09/2021	6	6	5	N	5	5
02/12/2020	6	6	5	N	5	5
03/27/2019	6	6	5	N	5	5
03/21/2018	6	6	5	N	5	5
03/21/2017	6	5	5	N	5	5
08/04/2016	7	5	4	N	5	5
08/18/2015	7	6	5	N	5	5
08/05/2014	7	6	5	N	5	5
09/25/2013	7	6	5	N	6	5
08/28/2012	7	6	5	N	6	5
08/31/2011	7	6	5	N	6	5
09/21/2010	7	6	6	N	6	5
10/19/2009	7	6	6	N	6	5
09/15/2008	7	6	6	N	6	5
03/20/2008	7	6	6	N	5	N
02/27/2007	7	6	6	N	5	N
01/24/2006	7	6	6	N	5	N
02/01/2005	7	6	6	N	5	N
08/09/2004	7	5	3	N	5	N
08/27/2003	7	5	5	N	5	N
07/23/2002	7	5	5	N	5	N
09/01/2000	7	5	5	N	5	N