



Latitude:33.77057, Longitude:-92.51379

Route:79 Section:05 Log:4.609

Arnold Road ID:7x79x5xB, Arnold Log mile:3.837

District 07, 13 - Calhoun County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

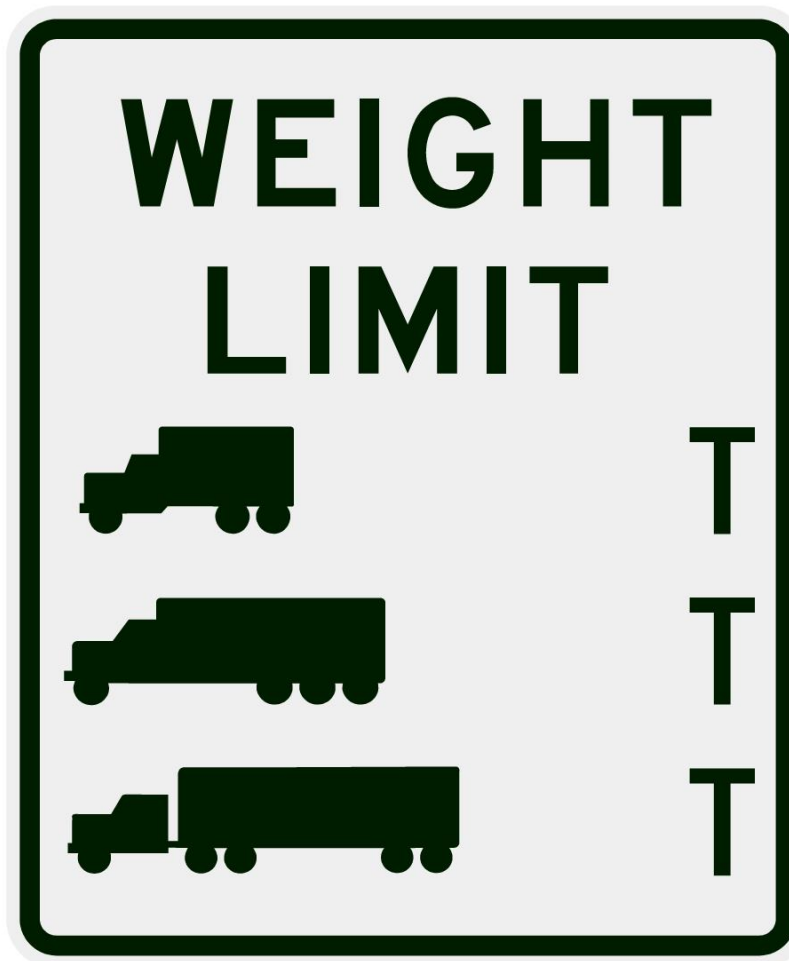
Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

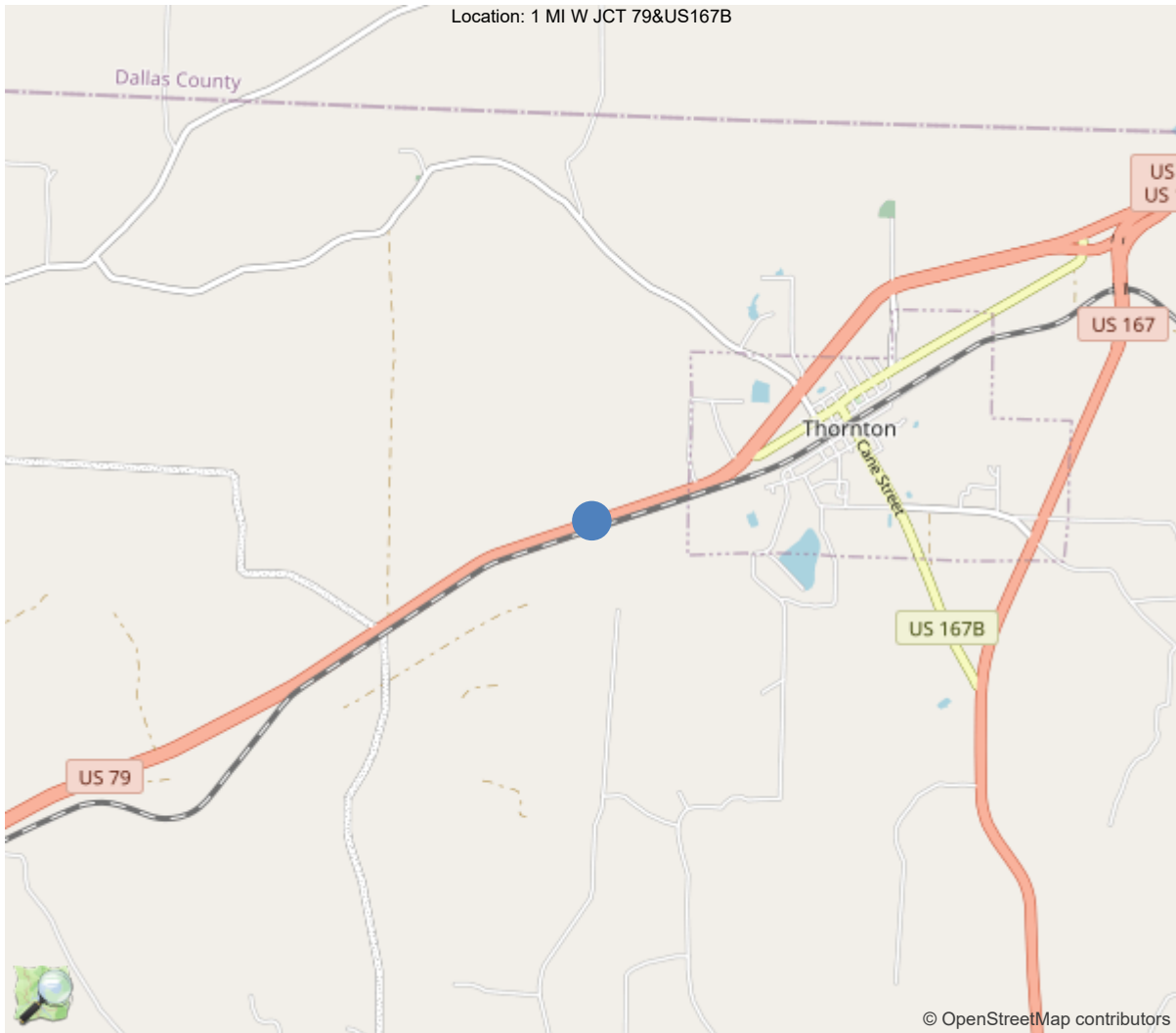
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	38		
Code 9 (31 Tons)	45		
Code 5 (40 Tons)	59		

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



33.77057, -92.51379



Asset #05944(Routine)

US 79 S-5 LM4.61SB over CHAMPAGNOLLE CR

Location: 1 MI W JCT 79&US167B

Team Lead: John Parks Inspection Date: 05/08/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05944
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	13 - Calhoun County
(4) Place Code	0
(6) Features Intersected	CHAMPAGNOLLE CR
(7) Facility Carried	US 79 S-5 LM4.61SB
(9) Location	1 MI W JCT 79&US167B
(11) Mile Point	4.609 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000079050
(16) Latitude	33.770569
(17) Longitude	-92.513786
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	6
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1982
(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	2200
(30) Year of ADT	2018
(109) Truck ADT	14 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	150 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	40 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	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	L - The left structure of para
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(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	7
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	2328
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/08/2023		
(91) Frequency	24		
(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.			

Team Lead: John Parks, **Inspection Date:** 05/08/2023

IDENTIFICATION	
B.ID.01 Bridge Number	05944
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	13 - Calhoun County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	07 - District 07
B.L.05 Latitude	33.770569
B.L.06 Longitude	-92.513786
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	
B.CL.02 Maint. Responsibility	
B.CL.03 Federal or Tribal Land Access	
B.CL.04 Historic Significance	
B.CL.05 Toll	
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	
B.G.02 Total Bridge Length	
B.G.03 Max Span Length	
B.G.04 Min Span Length	
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	
B.G.07 Left Curb or Sidewalk Width	
B.G.08 Right Curb or Sidewalk Width	
B.G.09 Approach Roadway Width	

B.G.10 Bridge Median	
B.G.11 Skew	
B.G.12 Curved Bridge	
B.G.13 Max Bridge Height	
B.G.14 Sidehill Bridge	
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	

LOADS AND LOAD RATING	
B.LR.01 Design Load	
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	
B.LR.05 Inventory Load Rating Factor	
B.LR.06 Operating Load Rating Factor	
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	
B.IR.04 Complex Feature	

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	
B.C.02 Superstructure Condition	
B.C.03 Substructure Condition	
B.C.04 Substructure Condition	
B.C.05 Bridge Railing Condition	
B.C.06 Bridge Railing Transitions Condition	
B.C.07 Bridge Bearings Cond.	
B.C.08 Bridge Joints Condition	
B.C.09 Channel Condition Rating	
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	
B.C.12 Bridge Condition Classification	
B.C.13 Lowest Condition Rating	
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	



Team Lead: John Parks, **Inspection Date:** 05/08/2023

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value



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Location: 1 MI W JCT 79&US167B

Team Lead: John Parks Inspection Date: 05/08/2023

General Observation

Logged south to north.

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Map cracking upto 0.025" & longitudinal cracking upto 0.030".

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Light efflorescence reflecting through to the bottom of the slab, 2 minor exposed rebar & 1 minor spall.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

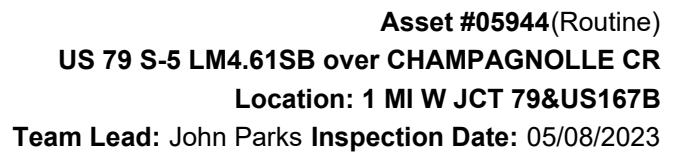
Local scour at piles & Caps have large spalls on the end.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

Banks are slumping and debris in the channel against the piles.

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

Minor local scour around all the piles.





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Location: 1 MI W JCT 79&US167B
Team Lead: John Parks Inspection Date: 05/08/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 4: - 1' spalls CS2, 2' CS3 Bent 5: -1' spall CS3 Bent 6: -2' spall CS3							
301	Pourable Joint Seal	LF	214	0	214	0	0
2310	Leakage	LF	107	0	107	0	0
2320	Seal Adhesion	LF	107	0	107	0	0
(301) All of the joints have lost adhesion & are being filled with non compressible materials.							
331	Reinforced Concrete Bridge Railing	LF	300	300	0	0	0



05/09/2023

Elevation



05/09/2023

Approach



05/09/2023

Slab overview



05/09/2023

Slab Underview



Typical superstructure.



Typical substructure.



Channels, left side, upstream.



Channel, right side, downstream.



Name plate



Span 1, map cracking upto 0.025" wide.



Span 6 efflorescence



Bent 2, left end of the cap has a spill.



Bent 3, cap left end, vertical cracks 1/4" wide.



Bent 4, 5, & 6, left end of caps have spalls.



Bent 2, local scour @ piles 3-6



Bent 5, local scour at piles 2- 6.



Bent 2, joint seal, debris impaction

Maintenance Needs

Date Reported: 05/08/2023

Priority: C - Important

Type of Work: Channel Work/Drift Removal

Status: Open

Component: Channel

Deficiency Description

Bent 3, logs & drift have washed up against the piles.

Remarks



Bent 3, logs & drift have washed up against the piles.

Maintenance Needs

Date Reported: 08/25/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Assigned

Component: Channel

Deficiency Description

Local scour bents 3-6

Remarks



Scour @ Bt's. 3,4, & 5.

Maintenance Needs

Date Reported: 05/08/2023

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Substructure

Deficiency Description

Bent 2 - 6, the left end of each cap has a large spall or crack.

Remarks



05/09/2023

Bent 2 - 6, the left end of each cap has a large spall or crack.



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
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	Yes
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	Yes
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks (Yes)

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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US 79 S-5 LM4.61SB over CHAMPAGNOLLE CR

Location: 1 MI W JCT 79&US167B

Team Lead: John Parks Inspection Date: 05/08/2023

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed (Yes)

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised (Yes)

A-62 - Hydro and LMC Advised

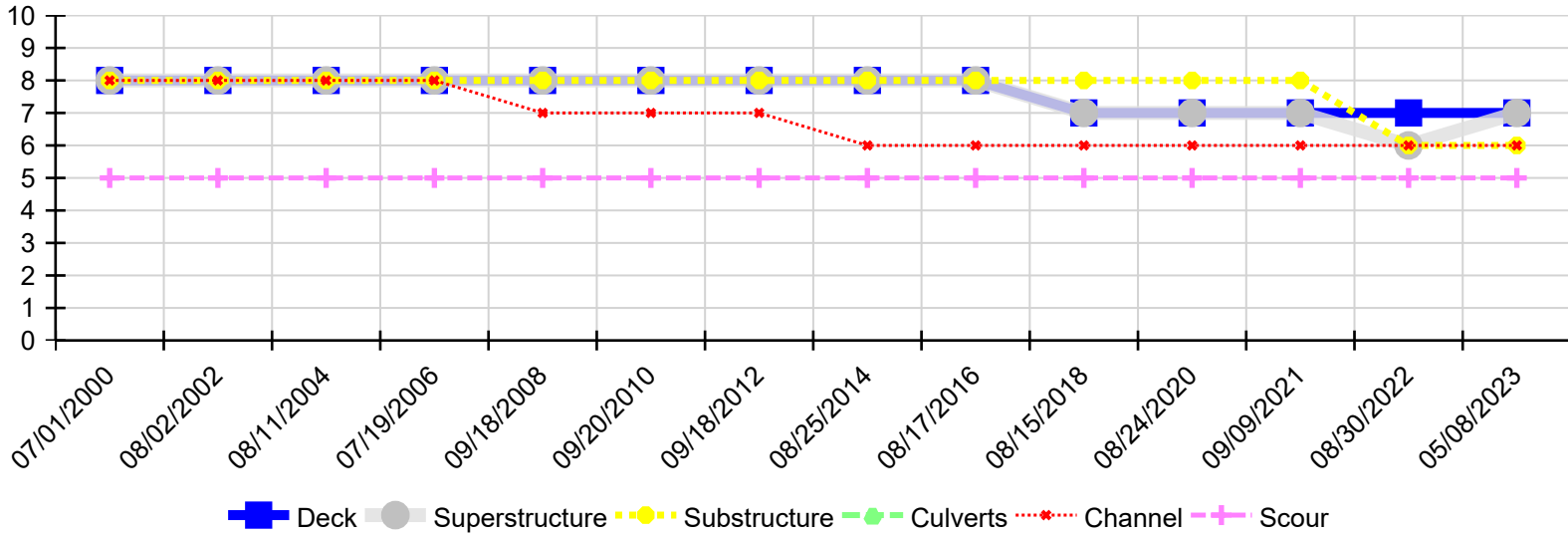
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/08/2023	7	7	6	N	6	5
08/30/2022	7	6	6	N	6	5
09/09/2021	7	7	8	N	6	5
08/24/2020	7	7	8	N	6	5
08/15/2018	7	7	8	N	6	5
08/17/2016	8	8	8	N	6	5
08/25/2014	8	8	8	N	6	5
09/18/2012	8	8	8	N	7	5
09/20/2010	8	8	8	N	7	5
09/18/2008	8	8	8	N	7	5
07/19/2006	8	8	8	N	8	5
08/11/2004	8	8	8	N	8	5
08/02/2002	8	8	8	N	8	5
07/01/2000	8	8	8	N	8	5