



Latitude:34.15682, Longitude:-91.56599

Route:88 Section:09 Log:23.34

Arnold Road ID:35x88x9xA, Arnold Log mile:23.357

District 02, 69 - Jefferson County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

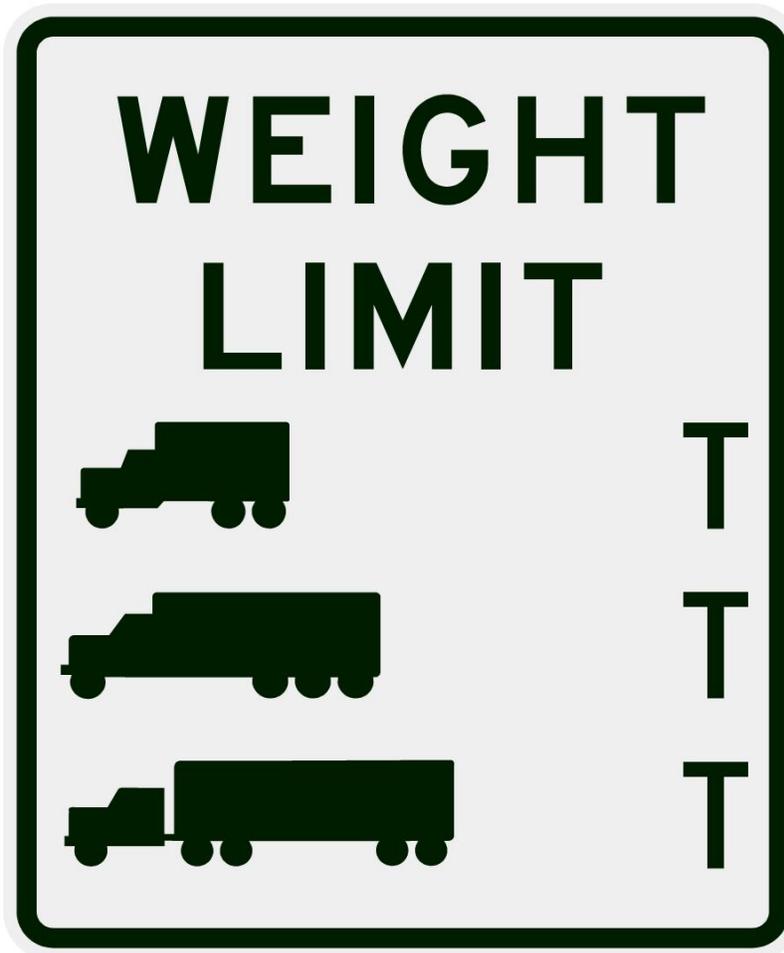
Bridge Posting Information

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

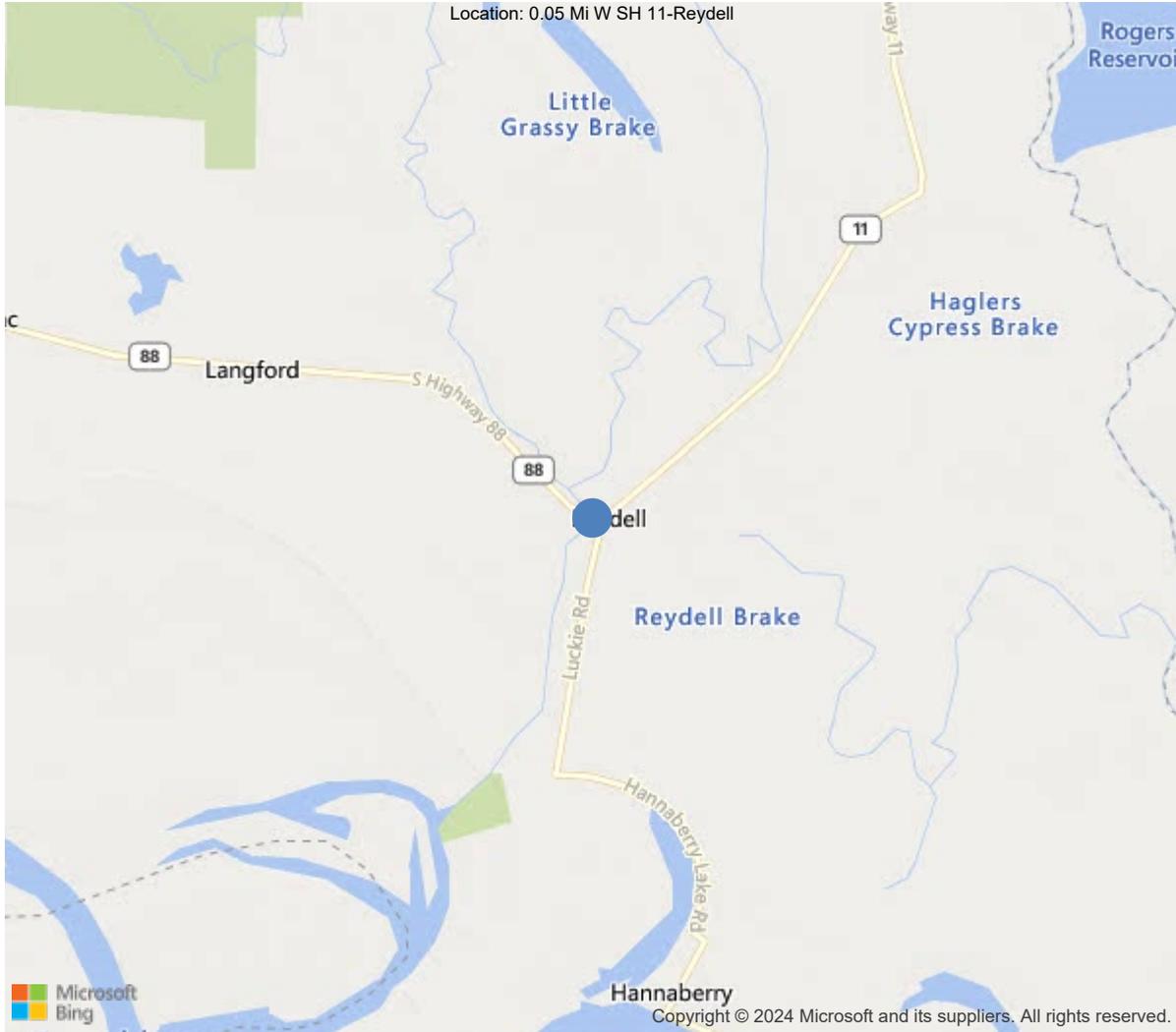
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	31		
Code 9 (31 Tons)	37		
Code 5 (40 Tons)	48		

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



34.15682, -91.56599



IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	01933
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	69 - Jefferson County
(4) Place Code	0
(6) Features Intersected	Little Bayou Meto
(7) Facility Carried	SH 88-09 LM 23.34
(9) Location	0.05 Mi W SH 11-Reydel
(11) Mile Point	23.34 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	000008809B
(16) Latitude	34.15682
(17) Longitude	-91.56599
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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	1936
(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	330
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	40 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	125 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	18 ft
(52) Deck Width Out to Out	19.5 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	19.7 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	5 - None present but re-evalua
(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 exis
(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 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	5
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	51
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	31
(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	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	6
(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 t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	153 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 502
(97) Year of Improvement Cost Estimate	2004
(114) Future ADT	608
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			12/18/2023
(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.			



Asset #01933(Routine)

SH 88-09 LM 23.34 over Little Bayou Meto

Location: 0.05 Mi W SH 11-Reydell

Team Lead: Sharon Hooks Inspection Date: 12/18/2023

General Observation

Bridge is logged from west to east.

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

Deck has numerous pot holes in wearing surface with heavy abrasion near gutter lines. Soffit has large cracks reflecting from deck with efflorescence.

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

Girder end have heavy flaking rust at or near bearing areas and at drain openings. Some section loss is present.

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

All timbers (Caps and Pile) have checks with some light decay to pile.

A-46 - Asset Files

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	2438	1955	215	268	0
1080	Delamination/Spall/Patched Area	SF	15	0	15	0	0
1090	Exposed Rebar	SF	6	0	0	6	0
1120	Efflorescence/Rust Staining	SF	450	0	200	250	0
1130	Cracking (RC and Other)	SF	12	0	0	12	0
510	Wearing Surfaces	SF	2250	743	494	633	380
3210	Delam/Spall/Patched Area/Pothole	SF	949	0	269	300	380
3220	Crack (Wearing Surface)	SF	558	0	225	333	0
<p>(12) Deck: 19'-6" wide (post bases NOT included) x 125' long = 2438 sqft.</p> <p>Wearing surface: 18' wide x 125' long = 2250 sqft. Some patches and small potholes in asphalt wearing surface/tattering along outside edges, mainly along outside of lanes on Spans 1, 2, 4, & 5. Unsealed, moderate-sized transverse cracks in asphalt wearing surface/deck with reflective cracks on soffit with some efflorescence and rust-staining - approximately every 4-5'. Some areas of scaling along right gutter line - Spans 1 & 2.</p> <p>Soffit: Numerous transverse cracks with efflorescence and some scattered rust-staining. **Span 1 Bay 2: Area (2' square) of spalling and delamination with steel exposed (rusting with minor section loss) between Girders 2 & 3 - approximately 6' back from Bent 2. ** NOTE: These locations have been patched by state forces. A couple other small areas of spalling with some steel exposed in scattered, various locations.</p>							
107	Steel Open Girder/Beam	LF	500	420	40	40	0
1000	Corrosion	LF	80	0	40	40	0
515	Steel Protective Coating	SF	2200	1444	540	216	0
3440	Effectiveness (Steel Protective Coatings)	LF	756	0	540	216	0
<p>(107) Girders: 4 per span / Spans 1-5 (25' each = 125' total span). Coating/paint: 4.4 square feet per linear feet of girder. Some rust with flaking and section loss on bottom flanges of ends of girders at each bent. (approximately 1' each location). Some scattered areas of rust on top flanges around cracks in deck. Some rusting and section loss on diaphragms at bents - diaphragms in Span 2 Bays 1 & 2 at Bent 2 are rusted through along top of web in a couple places.</p> <p>NOTE: Deck appears to have no connectors to girders - deck seems to move on girders and squeaks under traffic (no studs shown on plans).</p>							
216	Timber Abutment	LF	36	32	4	0	0
1140	Decay/Section Loss	LF	4	0	4	0	0
<p>(216) Abutment: 18' each / Bent 1. Backwall: 18' each / Bent 6. Some minor decay.</p>							



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Location: 0.05 Mi W SH 11-ReydeIl

Team Lead: Sharon Hooks Inspection Date: 12/18/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
228	Timber Pile	EA	20	0	17	3	0
1020	Connection	EA	14	0	14	0	0
1140	Decay/Section Loss	EA	3	0	3	0	0
1150	Check/Shake	EA	3	0	0	3	0
<p>(228) Piling: 4 per bent / Bents 2-6. Bent 2 Pile 3&4: Moderate to large check on back side - 2x CS3 checking. Bent 3 Piles 1 & 4 and Bent 5 Piles 1 & 3: Some surface decay (1/2") on pile section below collar. Bent 4 Pile 2: Moderate checking between bracing on back left - CS3 checking. Bent 6 Pile 4: Minor decay to outer shell - CS2 decay.</p> <p>NOTE: State forces have previously repaired/replaced Bent 2 Piles 1 & 2, Bent 3 Piles 1-4, Bent 4 Piles 1-4, Bent 5 Piles 1-4, and Bent 6 Pile 1 – CS2 connection x 15.</p>							
235	Timber Pier Cap	LF	95	80	15	0	0
1150	Check/Shake	LF	15	0	15	0	0
<p>(235) Caps: 19' each / Bents 2-6. All bents have staining due to moisture with some small checks.</p>							
304	Open Expansion Joint	LF	108	0	0	108	0
2350	Debris Impaction	LF	108	0	0	108	0
<p>(304) Joints: 18' each / Bents 1-6. All joints are CS3 impacted with asphalt and other debris.</p>							
331	Reinforced Concrete Bridge Railing	LF	250	100	150	0	0
7000	Damage	LF	150	0	150	0	0
<p>(331) Railing: 125' each side. Scuffs, scrapes, and small nicks on all posts - entire length.</p>							



Elevation.



Bent 3 joint seals are missing.



Deck Bent 2 has spalls and delams. Common through out deck



Span 2 bay 1 under view of deck has cracking with efflorescence.



Bent 3 piles.



Under view.



Span 2 Bent 2 girder 4 has heavy flaking rust.



Bent 2 pile 4 has large checks.



Deck over view.



Approach.

Maintenance Needs

Date Reported: 11/30/2011

Priority: C - Important

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

End of girders – all bents: Some rust with very minor pitting and section loss on bottom flanges (~1' each location).
Some rusting and section loss on diaphragms at bents - diaphragms in Span 2 Bays 1 & 2 at Bent 2 are rusted through along top of web in a couple places.

Girders – various locations: Some scattered areas of rust on top flanges around cracks in deck.

Changed priority from "G" to "C" . SDH 12-18-2023

Remarks



05/19/2020

Girders - Span 4 @ Bent 5 (corrosion)



05/19/2020

Span 2 Girders 1-2 @ Bent 3 (corrosion)



Maintenance Needs

Date Reported: 11/13/2015

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Deck - Spans 1 & 2 left gutter-line: Deterioration of deck and wearing surface, leaving several potholes in left outer wheel rut.

Deck – Spans 1 & 2: Some areas of scaling along right gutter line.

Deck – all spans: Unsealed, moderate-sized transverse cracks in asphalt wearing surface with reflective cracks on soffit with some efflorescence and rust-staining – approximately every 4-5’.

Remarks

Jefferson: repair asap



Deck - Spans 1-2 left gutterline (potholes)



Deck - Spans 1-5: Typical

Maintenance Needs

Date Reported: 11/09/2017

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bent 3 Piles 1 & 4 and Bent 5 Piles 1 & 3: Some surface rot (1/2") on pile section below collar.
Bent 6 Pile 4: Minor decay to outer shell.

Remarks



Bent 5 pile 3 outer decay below splice.



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	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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Location: 0.05 Mi W SH 11-ReydeH
Team Lead: Sharon Hooks Inspection Date: 12/18/2023

A-57 - Beam End and Bearing Painting 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

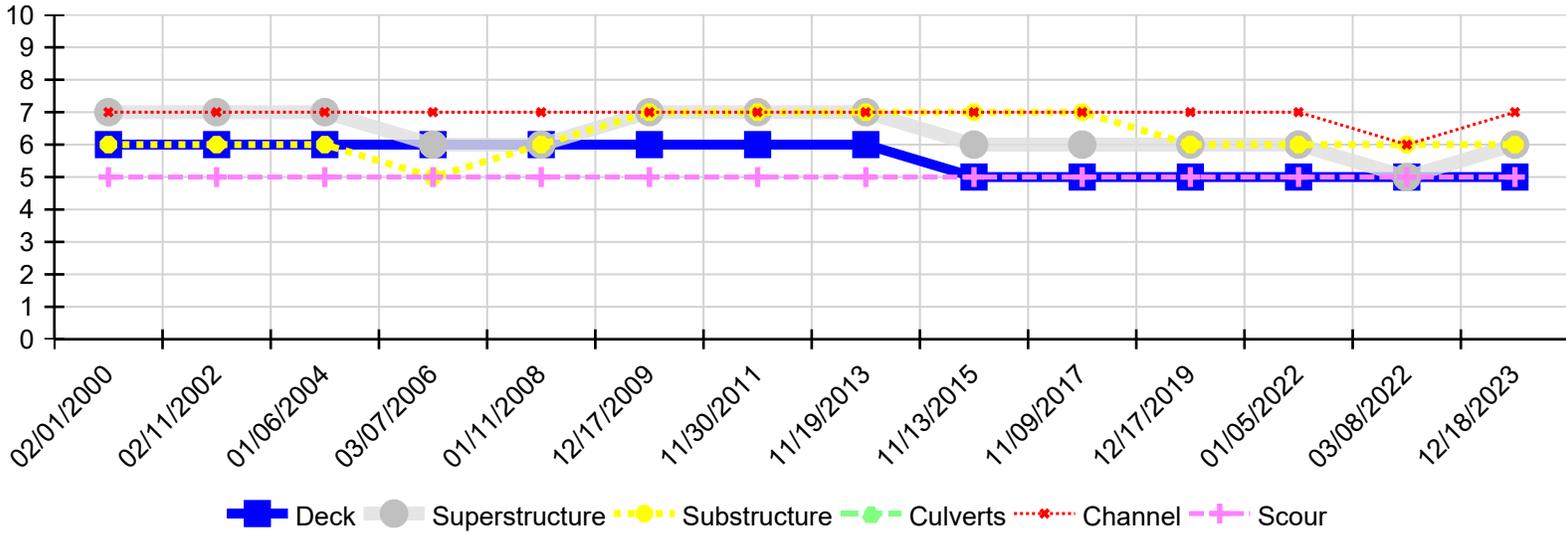
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



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 Team Lead: Sharon Hooks Inspection Date: 12/18/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
12/18/2023	5	6	6	N	7	5
03/08/2022	5	5	6	N	6	5
01/05/2022	5	6	6	N	7	5
12/17/2019	5	6	6	N	7	5
11/09/2017	5	6	7	N	7	5
11/13/2015	5	6	7	N	7	5
11/19/2013	6	7	7	N	7	5
11/30/2011	6	7	7	N	7	5
12/17/2009	6	7	7	N	7	5
01/11/2008	6	6	6	N	7	5
03/07/2006	6	6	5	N	7	5
01/06/2004	6	7	6	N	7	5
02/11/2002	6	7	6	N	7	5
02/01/2000	6	7	6	N	7	5