



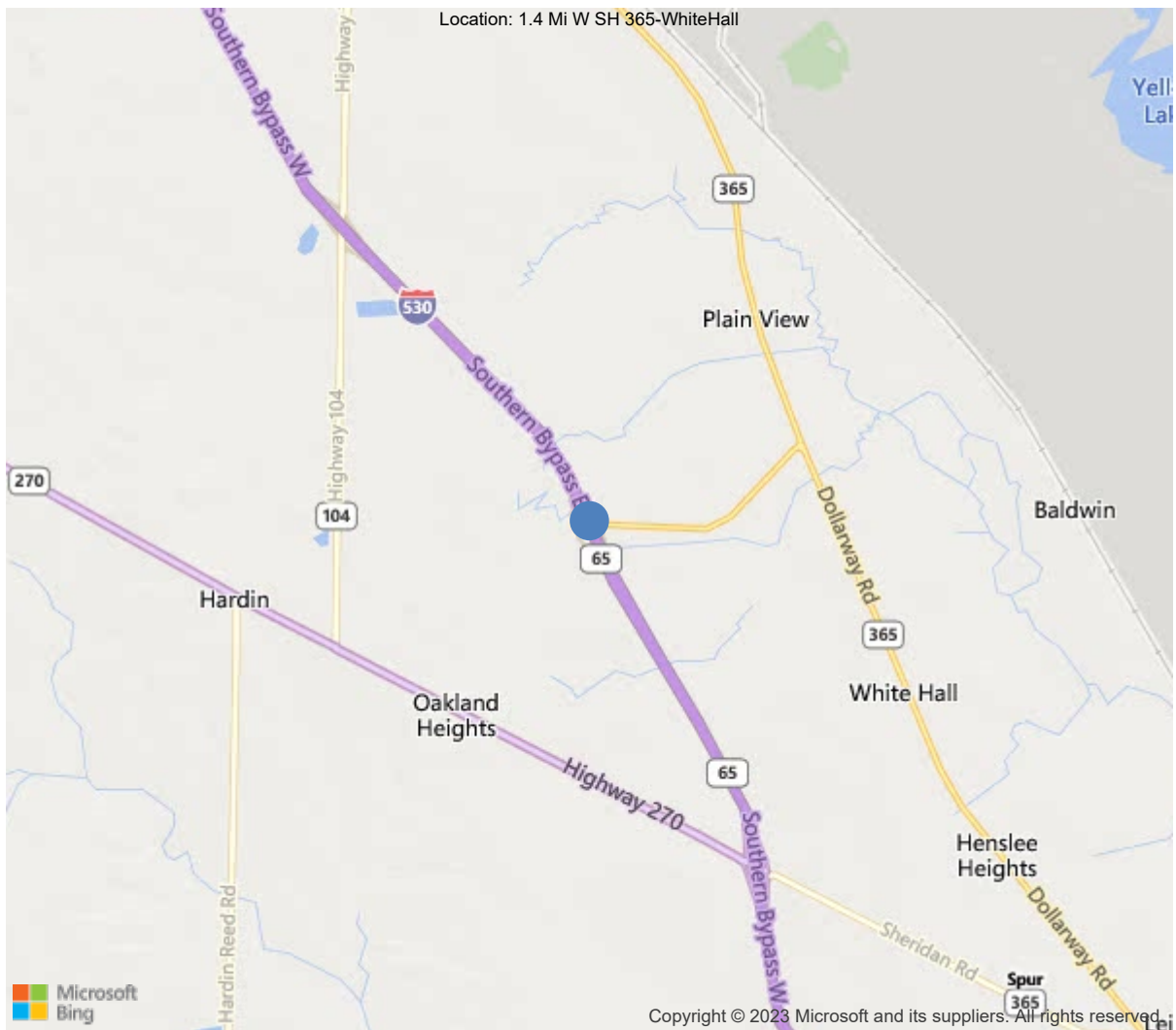
Latitude:34.28659, Longitude:-92.11897

Route:530 Section:05 Log:31.85

Arnold Road ID:35x530x5xB, Arnold Log mile:14.746

District 02, 69 - Jefferson County

Owner: 1 - State Highway Agency



34.28659, -92.11897



Asset #B5501 (Routine)

I-530 NB LM 31.85 over SH 256

Location: 1.4 Mi W SH 365-WhiteHall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	B5501
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	69 - Jefferson County
(4) Place Code	75170
(6) Features Intersected	SH 256
(7) Facility Carried	I-530 NB LM 31.85
(9) Location	1.4 Mi W SH 365-WhiteHall
(11) Mile Point	31.85 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000530050
(16) Latitude	34.28659
(17) Longitude	-92.11897
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1975
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	13000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	72 ft
(49) Structure Length	170.3 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	25 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.42 ft
Ref:	
(55) Min Lat Underclear RT	19.5 ft
Ref:	
(56) Min Lat Underclear LT	19.2 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	1
(26) Functional Class	11 - Urban Principal Arterial
(100) Defense Highway	1 - The inventory route is on
(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	7
(61) Channel & Channel Protection	N
(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	8
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	7
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
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	11400
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/14/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



Asset #B5501(Routine)

District: 02, County: 69 - Jefferson County

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

General Observation

Bridge (I-530) is logged from north to south and is the left bridge of two parallel structures.
SH 256 (under-route) is logged from west to east.

A-46 - Asset Files

-



Asset #B5501 (Routine)

I-530 NB LM 31.85 over SH 256

Location: 1.4 Mi W SH 365-WhiteHall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7182	6620	522	40	0
1120	Efflorescence/Rust Staining	SF	72	0	72	0	0
1130	Cracking (RC and Other)	SF	490	0	450	40	0
(12) Deck: 42' wide x 168' long = 7056 sqft. Moderate sized longitudinal cracks in left (outer) lane. One or two minor, unsealed, transverse cracks with some light, reflective efflorescence on soffit. Some unsealed map-cracking (curing cracks?) scattered throughout deck. Span 1-2 left: A couple small shallow spalls in left (outer) lane in outer wheel rut. Soffit – all spans: Some scattered cracking with efflorescence on overhangs (72 sqft CS2).							
107	Steel Open Girder/Beam	LF	1008	1000	8	0	0
1000	Corrosion	LF	8	0	8	0	0
515	Steel Protective Coating	SF	8215	6573	1386	190	66
3410	Chalking (Steel Protective Coatings)	LF	1386	0	1386	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	256	0	0	190	66
(107) Girders: 6 per span / Spans 1-3 (48' - 72' - 48' = 168' total span). Coating (W33x118): 8.15 square feet per linear feet of girder. Span 1 @ Bent 1 and Span 3 @ Bent 4: A couple small places of rust beginning to show on top of webs at haunches (8' total). Minor freckled rust forming on splice connections. Girders 1 & 6: Paint on outsides is chalky.							
205	Reinforced Concrete Column	EA	6	5	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
(205) Columns: 3 per bent / Bents 2 & 3. Bent 2 Column 3: Small (6-8" tall) chip on right ahead corner 2' above groundline.							
215	Reinforced Concrete Abutment	LF	105	63	42	0	0
1130	Cracking (RC and Other)	LF	42	0	42	0	0
(215) Abutments: 41'-6" = 42' each (skewed - with 10'-6" wings each bent) / Bents 1 & 4. Bent 4: Some minor- to moderate-sized horizontal/map-cracking across face of cap.							
234	Reinforced Concrete Pier Cap	LF	84	84	0	0	0
(234) Caps: 42' each (skewed) / Bents 2 & 3.							
302	Compression Joint Seal	LF	100	0	36	4	60
2330	Seal Damage	LF	60	0	0	0	60
2360	Adjacent Deck or Header	LF	40	0	36	4	0

Team Lead: Sharon Hooks, **Inspection Date:** 09/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(302) Joints: 50' each (skewed) \ Bents 1 & 4. Bent 1: Joint is almost completely closed up. Preformed joint material is missing . A couple very small shallow spalls with some light deterioration on top of backwall. Bent 4: Preformed joint material is fallen down with road-iron becoming loose in a couple areas, especially in left (outside) lane just inside wheel ruts - road-iron pops and makes noise when traffic runs directly over it at this location.							
311	Movable Bearing	EA	18	6	11	1	0
1000	Corrosion	EA	12	0	11	1	0
515	Steel Protective Coating	SF	36	34	0	2	0
3440	Effectiveness (Steel Protective Coatings)	EA	2	0	0	2	0
(311) Movable bearings: 6 per bent / Bents 1, 3, & 4. Coating: 2.0 square feet each. Bents 1 & 4: Some paint flaking off of bearings with a couple places of very minor, light surface rust. Bent 1 Bearing 1: Some pack rust under rocker, somewhat restricting movement. Bent 3 Bearing 4: Loose nuts on anchor bolts.							
313	Fixed Bearing	EA	6	6	0	0	0
515	Steel Protective Coating	SF	12	12	0	0	0
(313) Fixed bearings: 6 per bent / Bent 2. Coating: 2.0 square feet each.							
321	Reinforced Concrete Approach Slab	SF	1680	1632	48	0	0
1130	Cracking (RC and Other)	SF	48	0	48	0	0
(321) Approach slabs: (24' wide x 35' long) 840 square feet each / Bents 1 & 4. Bent 1: Two transverse cracks near mid-slab (48 sqft CS2).							
330	Metal Bridge Railing	LF	342	335	0	7	0
7000	Damage	LF	7	0	0	7	0
515	Steel Protective Coating	SF	821	821	0	0	0
(330) Railing: 171' each side. Coating: 2.4 square feet per linear feet of railing. Concrete curb topped with metal railing. Span 3 left : Minor impact damage to railing near Bent 4. Span 3 right: Minor damage to rail and post near Bent 4.							
331	Reinforced Concrete Bridge Railing	LF	342	342	0	0	0
(331) Railing: 171' each side. Concrete curb topped with metal railing.							

Asset #B5501(Routine)

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1008	1000	8	0	0
1000	Corrosion	LF	8	0	8	0	0
515	Steel Protective Coating	SF	8215	6573	1386	190	66
3410	Chalking (Steel Protective Coatings)	LF	1386	0	1386	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	256	0	0	190	66
<p>(107) Girders: 6 per span / Spans 1-3 (48' - 72' - 48' = 168' total span).</p> <p>Coating (W33x118): 8.15 square feet per linear feet of girder.</p> <p>Span 1 @ Bent 1 and Span 3 @ Bent 4: A couple small places of rust beginning to show on top of webs at haunches (8' total).</p> <p>Minor freckled rust forming on splice connections.</p> <p>Girders 1 & 6: Paint on outsides is chalky.</p>							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	6	5	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
(205) Columns: 3 per bent / Bents 2 & 3. Bent 2 Column 3: Small (6-8" tall) chip on right ahead corner 2' above groundline.							
215	Reinforced Concrete Abutment	LF	105	63	42	0	0
1130	Cracking (RC and Other)	LF	42	0	42	0	0
(215) Abutments: 41'-6" = 42' each (skewed - with 10'-6" wings each bent) / Bents 1 & 4. Bent 4: Some minor- to moderate-sized horizontal/map-cracking across face of cap.							
234	Reinforced Concrete Pier Cap	LF	84	84	0	0	0
(234) Caps: 42' each (skewed) / Bents 2 & 3.							



Asset #B5501(Routine)

I-530 NB LM 31.85 over SH 256

Location: 1.4 Mi W SH 365-WhiteHall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Approach.



Deck over view.



Bent 4 abutment has cracking.



Bent 2 column 3 right has small spall.



Cracks with efflorescence on soffit all spans mainly on outside areas.



Span 2 bay 4 & 5 have cracking with efflorescence.



Under view.



Deck - Span 2 @ midspan: Cracking



Deck - Span 1 left: Cracking



Abutment - Bent 4 right: Cracking



Bent 1 Bearing 1: Corrosion

Maintenance Needs

Date Reported: 09/11/2020

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

Deck - Span 1-2 left: A couple small shallow spalls in left (outer) lane in outer wheel rut.

Remarks



Span 1 left side as approach has small spalls.



Spans 2 left has small spalls and heavy map cracking.



Deck - Span 1 left: Spall

Maintenance Needs

Date Reported: 09/11/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Assigned

Component: Element

Deficiency Description

Joint – Bent 4 left:

Some cracking\deterioration\spalling of backwall with road-iron becoming loose in a couple areas, especially in left (outside) lane just inside wheel ruts – road-iron pops and makes noise when traffic runs directly over it at this location.

09-08-2020 GGL-PRD: Changed priority from "D" to "C".

Remarks



Bent 4 top of back wall has small spalls



Bent 4 road iron is loose under traffic (making noise)but still intact.



Joint - Bent 4 left (spalling of backwall)



Joint - Bent 4 left: Spalling of adjacent deck/loose road iron

Maintenance Needs

Date Reported: 09/25/2014

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

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Deck - all spans: One or two minor, unsealed, transverse cracks with some light, reflective efflorescence on soffit.

Remarks



Span 2 left lane has heavy map cracking.



Deck - Span 2 (transverse cracking)

Maintenance Needs

Date Reported: 09/25/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Joints:

Bent 1: Joint is almost completely closed up. Preformed joint material is squeezed tight and tattered. A couple very small shallow spalls with some light deterioration on top of backwall.

Bent 4: Preformed joint material is sagging or bulging up in several places.

Remarks



Bent 4 joint seal has loss of adhesion and is leaking.



Joint - Bent 4 (tattering and loosing adhesion)



Joint - Bent 1 (loosing adhesion)

Maintenance Needs

Date Reported: 10/24/2013

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

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bearings – Bents 1 & 4: Some paint flaking off of bearings with a couple places of very minor, light surface rust. Some pack rust under rocker at Bent 1 Bearing 1, somewhat restricting movement.

Remarks



Bent 1 bearing 1 has heavy flaking rust.



Bent 1 Bearing 1 (corrosion)

Maintenance Needs

Date Reported: 09/16/2020

Priority: D- Routine

Type of Work: Repair (General)

Status: Assigned

Component: Element

Deficiency Description

Railing:

Span 3 left : Minor impact damage to railing near Bent 4.

Span 3 right: Minor damage to rail and post near Bent 4.

Remarks



Railing - right side near Bent 4: Collision damage



Asset #B5501(Routine)

I-530 NB LM 31.85 over SH 256

Location: 1.4 Mi W SH 365-WhiteHall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

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	



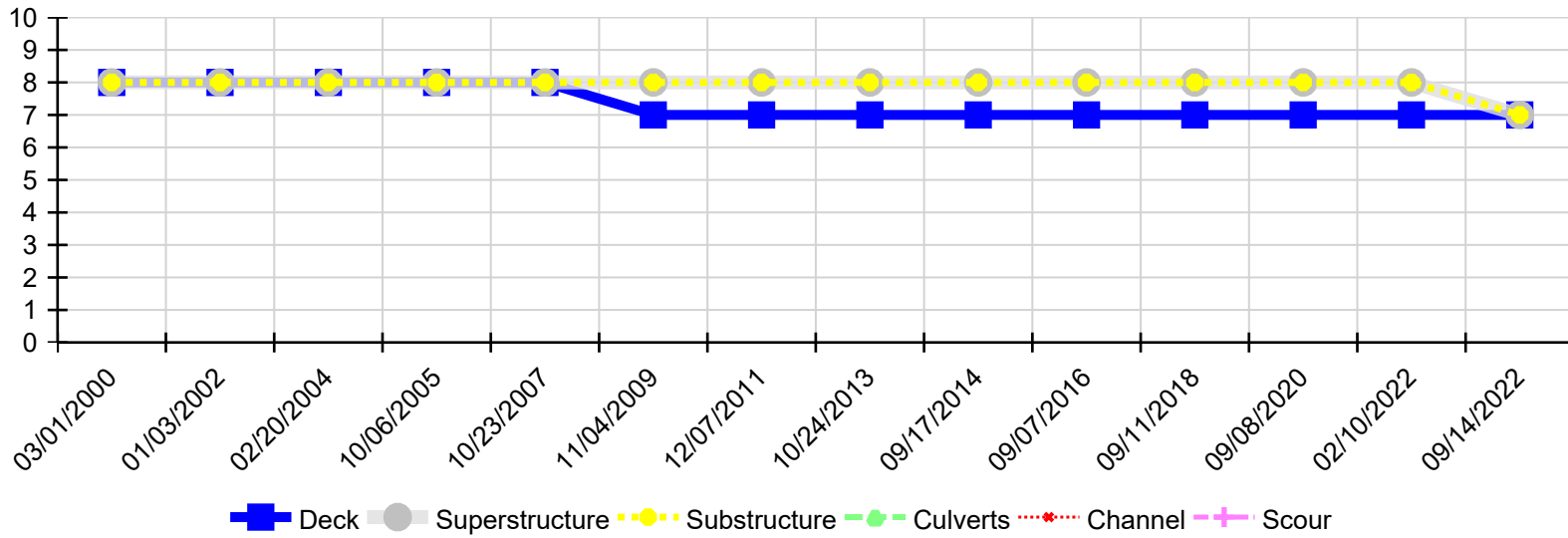
Asset #B5501 (Routine)

I-530 NB LM 31.85 over SH 256

Location: 1.4 Mi W SH 365-WhiteHall

Team Lead: Sharon Hooks, Inspection Date: 09/14/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/14/2022	7	7	7	N	N	N
02/10/2022	7	8	8	N	N	N
09/08/2020	7	8	8	N	N	N
09/11/2018	7	8	8	N	N	N
09/07/2016	7	8	8	N	N	N
09/17/2014	7	8	8	N	N	N
10/24/2013	7	8	8	N	N	N
12/07/2011	7	8	8	N	N	N
11/04/2009	7	8	8	N	N	N
10/23/2007	8	8	8	N	N	N
10/06/2005	8	8	8	N	N	N
02/20/2004	8	8	8	N	N	N
01/03/2002	8	8	8	N	N	N
03/01/2000	8	8	8	N	N	N