



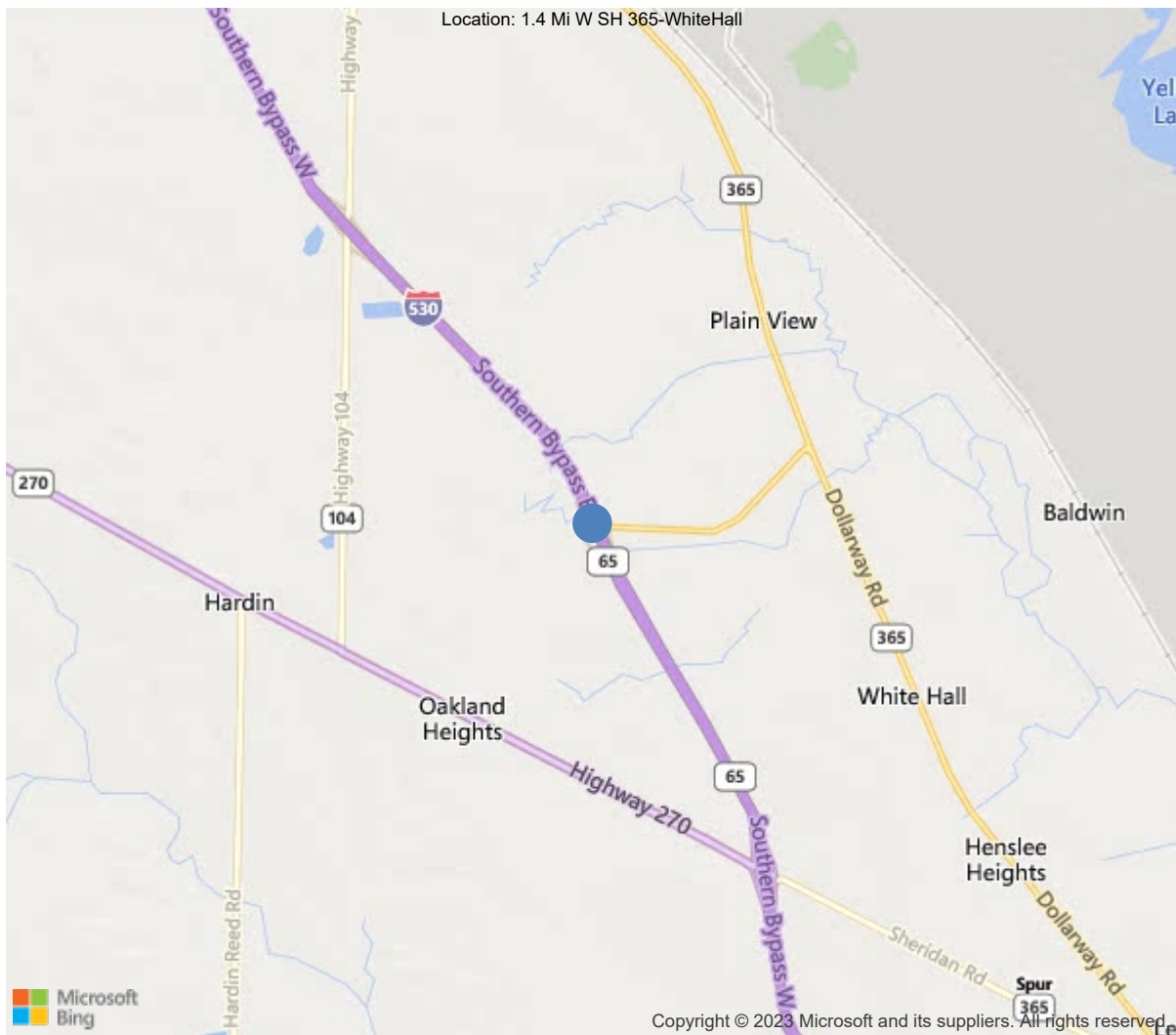
Latitude:34.28660, Longitude:-92.11930

Route:530 Section:05 Log:31.85

Arnold Road ID:35x530x5xA, Arnold Log mile:31.811

District 02, 69 - Jefferson County

Owner: 1 - State Highway Agency



34.28660, -92.11930



Asset #A5501 (Routine)

I-530 SB 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 | A5501 |
| (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 SB 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 | 34.2866 |
| (17) Longitude | -92.1193 |
| (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 | 11 % |
| (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 | 19.6 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 | R - The right structure of par |
| (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 | | | |
| * 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 #A5501(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 right bridge of two parallel structures.
SH 256 (under-route) is logged from west to east.

A-46 - Asset Files

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| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|--|--------------------------------------|-------|-------|------|------|-----|-----|
| 12 | Reinforced Concrete Deck | SF | 7056 | 6481 | 540 | 35 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 90 | 0 | 90 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 485 | 0 | 450 | 35 | 0 |
| (12) Deck: 42' wide x 168' long = 7056 sqft. One or two minor, unsealed, transverse cracks with some light, reflective efflorescence on soffit. Very light unsealed map-cracking (curing cracks?) scattered throughout deck. Soffit – all spans: Some scattered cracking with efflorescence on overhangs (90 sqft CS2). | | | | | | | |
| 107 | Steel Open Girder/Beam | LF | 1008 | 1002 | 6 | 0 | 0 |
| 1000 | Corrosion | LF | 6 | 0 | 6 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 8215 | 6846 | 1369 | 0 | 0 |
| 3410 | Chalking (Steel Protective Coatings) | LF | 1369 | 0 | 1369 | 0 | 0 |
| (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 2 Girders 3 & 4 @ Splice 1: Rust beginning to form on web along top of plate and at 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 3 Column 1: Small (6-8" tall) chip on left back corner 12" above groundline. | | | | | | | |
| 215 | Reinforced Concrete Abutment | LF | 105 | 59 | 42 | 4 | 0 |
| 1130 | Cracking (RC and Other) | LF | 46 | 0 | 42 | 4 | 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. Bent 4 left: Moderate- to large-sized cracking on wing-wall. | | | | | | | |
| 234 | Reinforced Concrete Pier Cap | LF | 84 | 82 | 2 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 2 | 0 | 2 | 0 | 0 |
| (234) Caps: 42' each (skewed) / Bents 2 & 3. Bent 2 cap ahead has very small vertical cracks. | | | | | | | |
| 302 | Compression Joint Seal | LF | 100 | 15 | 0 | 50 | 35 |
| 2320 | Seal Adhesion | LF | 35 | 0 | 0 | 0 | 35 |
| 2330 | Seal Damage | LF | 50 | 0 | 0 | 50 | 0 |
| (302) Joints: 50' each (skewed) \ Bents 1 & 4. Bent 1: Joint is almost completely closed up. Preformed joint material is mostly missing. Bent 4: Road iron cut away and repairs made in left (outside) lane. Preformed joint material has come loose and has fallen out across most of joint. Some minor cracking, very small spalls, and light deterioration on top of remaining backwall, heaviest near centerline. | | | | | | | |

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

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|---|-------|-------|------|-----|-----|-----|
| 311 | Movable Bearing | EA | 18 | 6 | 11 | 1 | 0 |
| 1000 | Corrosion | EA | 12 | 0 | 11 | 1 | 0 |
| 515 | Steel Protective Coating | SF | 36 | 12 | 0 | 24 | 0 |
| 3440 | Effectiveness (Steel Protective Coatings) | EA | 24 | 0 | 0 | 24 | 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. Some pack rust under rocker at Bent 4 Bearing 6, somewhat restricting movement. | | | | | | | |
| 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 | 1605 | 20 | 55 | 0 |
| 1130 | Cracking (RC and Other) | SF | 75 | 0 | 20 | 55 | 0 |
| (321) Approach slabs: (24' wide x 35' long) 840 square feet each / Bents 1 & 4. Bent 1: Approach slab has minor cracks Bent 4: Approach slab has moderate to heavy cracking. | | | | | | | |
| 330 | Metal Bridge Railing | LF | 342 | 342 | 0 | 0 | 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. | | | | | | | |
| 331 | Reinforced Concrete Bridge Railing | LF | 342 | 342 | 0 | 0 | 0 |
| (331) Railing: 171' each side. Concrete curb topped with metal railing. | | | | | | | |

Asset #A5501(Routine)

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|--|--------------------------------------|-------|-------|------|------|-----|-----|
| 107 | Steel Open Girder/Beam | LF | 1008 | 1002 | 6 | 0 | 0 |
| 1000 | Corrosion | LF | 6 | 0 | 6 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 8215 | 6846 | 1369 | 0 | 0 |
| 3410 | Chalking (Steel Protective Coatings) | LF | 1369 | 0 | 1369 | 0 | 0 |
| <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 2 Girders 3 & 4 @ Splice 1: Rust beginning to form on web along top of plate and at splice connections.</p> <p>Girders 1 & 6: Paint on outsides is chalky.</p> | | | | | | | |



Asset #A5501(Routine)

I-530 SB 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.



South approach slab has moderate to heavy cracking.



Deck over view.



Bent 4 left at back wall has large cracks with efflorescence.



Bent 2 cap ahead right near column 3 has minor cracking.



Bent 1 bearing 5 has heavy corrosion.



Span 1 underside of deck right side near bent 2 has cracking with efflorescence.



Bent 3 column 1 has minor spall.



Under view of span 2.

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 4 Bearing 6, somewhat restricting movement.

Remarks



Bent 4 Bearing 6 (corrosion)

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 mostly missing.

Bent 4: Preformed joint material has come loose and has fallen out across most of joint. Some minor cracking, very small spalls, and light deterioration on top of remaining backwall, heaviest near centerline.

Remarks



Bent 1 joint material missing.



Bent 4 joint material missing.



Joint - Bent 1 (material pinched)



Bent 4 compression joint seal missing and road iron missing also.



Bent 1 compression joint seal missing .



Joint - Bent 4 (material missing)

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



Deck - Span 2 right: Transverse cracking



Asset #A5501(Routine)

I-530 SB 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 | |



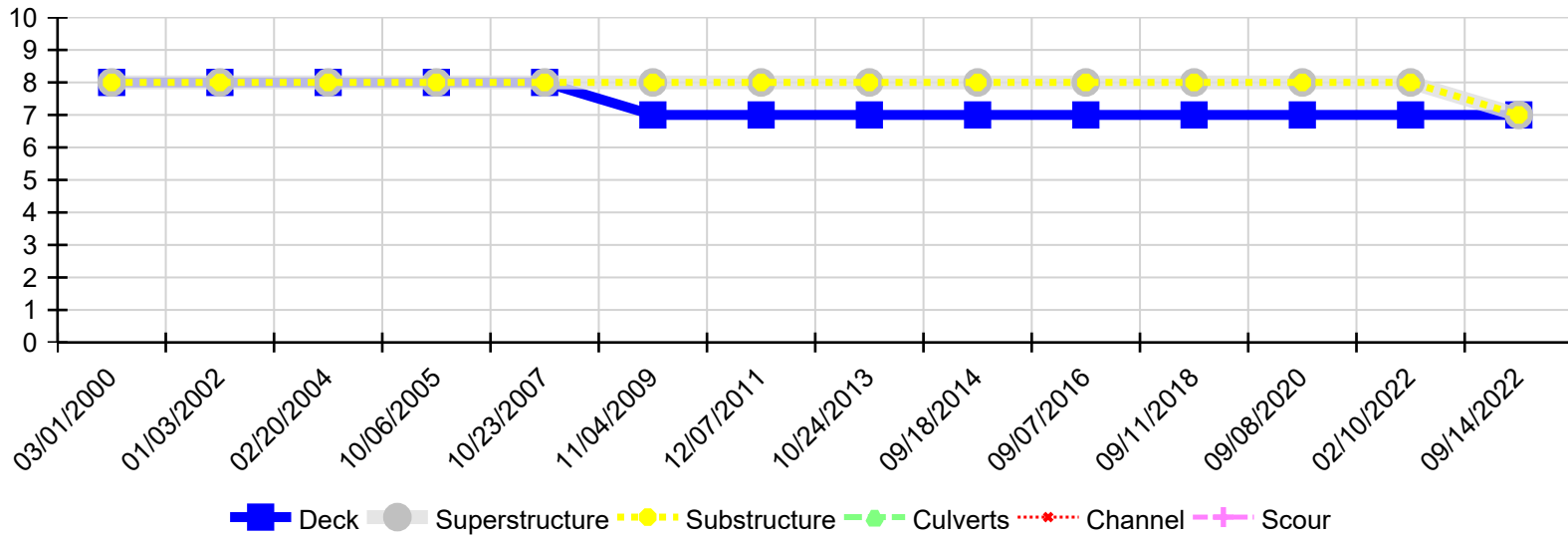
Asset #A5501 (Routine)

I-530 SB 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 |
| 09/18/2014 | 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 |