



Latitude:33.91060, Longitude:-93.44500

Route:19 Section:05 Log:8.39

Arnold Road ID:50x19x5xA, Arnold Log mile:8.392

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

### Bridge Posting Information

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

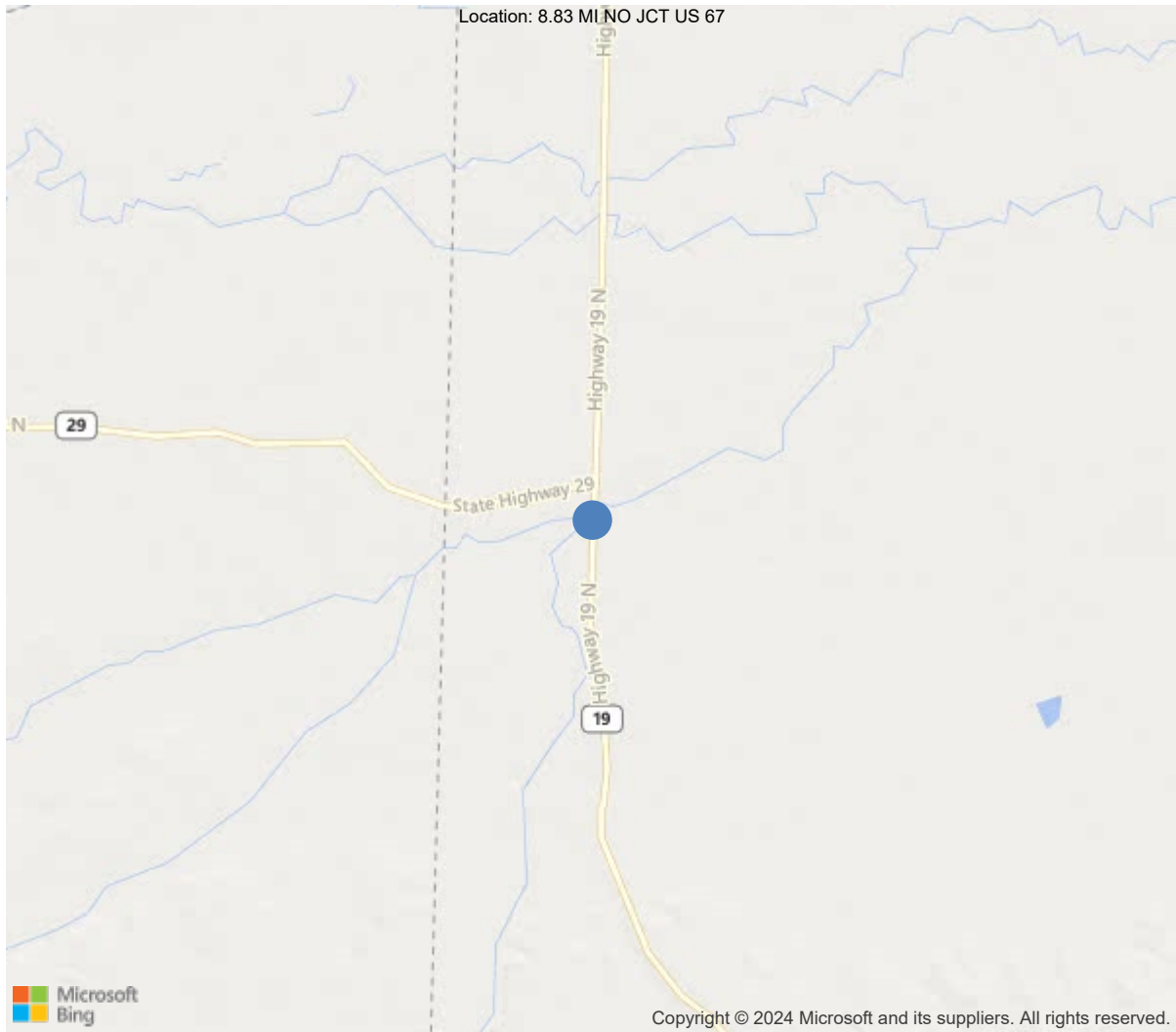
70 - Bridge Posting: 5 - Equal to or above legal loads

| Legal Load       | Calculated Capacity | Beginning of Bridge Sign Current Value | End of Bridge Sign Current Value |
|------------------|---------------------|--|----------------------------------|
| Code 4 (22 Tons) | 40                  |  |                                  |
| Code 9 (31 Tons) | 50                  |  |                                  |
| Code 5 (40 Tons) | 60                  |  |                                  |

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



33.91060, -93.44500





Asset #05877(Routine)

SH 19-SEC 5 - 8.39 over BRUSHEY CREEK

Location: 8.83 MI NO JCT US 67

Team Lead: John King Inspection Date: 06/06/2023

| IDENTIFICATION                            |  |
|---|--|
| (1) State Names                           | 5 - Arkansas                             |
| (8) Structure Number                      | 05877                                    |
| (5) Inventory Route                       | 1  |
| (2) Highway Agency District               | 03 - District 03                         |
| (3) County Code                           | 99 - Nevada County                       |
| (4) Place Code                            | 0  |
| (6) Features Intersected                  | BRUSHEY CREEK                            |
| (7) Facility Carried                      | SH 19-SEC 5 - 8.39                       |
| (9) Location                              | 8.83 MI NO JCT US 67                     |
| (11) Mile Point                           | 8.39 mi                                  |
| (12) Base Highway Network                 | Yes                                      |
| (13) LRS Inventory Rte & Subrte           | 0000019050                               |
| (16) Latitude                             | 33.910603                                |
| (17) Longitude                            | -93.445                                  |
| (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                   | 1 - Monolithic Concrete (concurrently pl |
| Type of Membrane                          | 0 - None                                 |
| Type of Deck Protection                   | 0 - None                                 |
| AGE AND SERVICE                           |  |
| (27) Year Built                           | 1988                                     |
| (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                | 880                                      |
| (30) Year of ADT                          | 2018                                     |
| (109) Truck ADT                           | 29 %                                     |
| (19) Bypass, Detour Length                | 25 mi                                    |
| GEOMETRIC DATA                            |  |
| (48) Length of Maximum Span               | 40 ft                                    |
| (49) Structure Length                     | 200 ft                                   |
| (50) Curb or Sidewalk Width               |  |
| Left                                      | 0 ft                                     |
| Right                                     | 0 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                   | 0                                   |
| (26) Functional Class                  | 6 - Rural Minor Arterial            |
| (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                              | 7                                   |
| (59) Superstructure                    | 8                                   |
| (60) Substructure                      | 8                                   |
| (61) Channel & Channel Protection      | 7                                   |
| (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                     | 8                                   |
| (69) Clearances, Vertical/Horizontal   | N                                   |
| (71) Waterway Adequacy                 | 6                                   |
| (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           | 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 | 0                                   |
| (114) Future ADT                       | 1155                                |
| (115) Year of Future ADT               | 2028                                |

| INSPECTIONS *  |            |             |      |
|--|------------|-------------|------|
| (90) Inspection Date   | 06/06/2023 |             |      |
| (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 #05877(Routine)

SH 19-SEC 5 - 8.39 over BRUSHEY CREEK

Location: 8.83 MI NO JCT US 67

Team Lead: John King Inspection Date: 06/06/2023

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

6/2023 deck in good condition. Some small cracking in top of deck, some were sealed in past.  
Joints were repaired around 2021.

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**59 - Superstructure (8 - VERY GOOD CONDITION - no problems noted.)**

6/2023 Typical photo of wearing steel beams all spans  
Beams are in very good condition with some area of light brown rusting. over water. Typical on weathering steel beams.

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**60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)**

6/23 bents are in very good condition. see plan layout sheet steel piles with concrete encasement

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**61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)**

6/23 channel in good condition may need minor repair

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**A-54 - Sealable Deck Cracks**

06/2023 very small cracks in deck , some have been sealed in past.

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**A-58 - Cap Cleaning/Flushing Needed**

Photo of abutment 1 with sandblasting material on cap. other bent have some also..  
From joint repairs in 2021.

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| ELEMENTS  | DESCRIPTION   | UNITS | TOTAL | CS1  | CS2 | CS3 | CS4 |
|---|---|-------|-------|------|-----|-----|-----|
| 12  | Reinforced Concrete Deck  | SF    | 8560  | 8255 | 305 | 0   | 0   |
| 1120  | Efflorescence/Rust Staining   | SF    | 5     | 0    | 5   | 0   | 0   |
| 1130  | Cracking (RC and Other)   | SF    | 380   | 80   | 300 | 0   | 0   |
| (12) SMALL CRACK IN DECK HAVE BEEN SEALED IN PAST UNDER CONDITION 1   |   |       |       |      |     |     |     |
| 6/2023 unsealed cracks in deck photo of span 1 left side.<br>typical cracking in deck top side most all spans<br>cracking with white efflorescence .photo taken in span 2 bay 1 at bent 2 area  |   |       |       |      |     |     |     |
| (1120-12) 6/2023 cracking with white efflorescence .photo taken in span 2 bay 1 at bent 2 area  |   |       |       |      |     |     |     |
| 107   | Steel Open Girder/Beam  | LF    | 1200  | 1200 | 0   | 0   | 0   |
| 515   | Steel Protective Coating  | SF    | 8208  | 8208 | 0   | 0   | 0   |
| 3430  | Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings) | LF    | 200   | 200  | 0   | 0   | 0   |
| (107)<br>6/2023 typical photo of weathering steel beams. Photo taken in span 1<br>(515-107) 6/2023 Light brown rusting on out side beam in span span 3 left side photo taken<br>(3430-515-107) 6/2023 Light brown rusting on out side beam in span span 3 left side photo taken |   |       |       |      |     |     |     |
| 215   | Reinforced Concrete Abutment  | LF    | 103   | 103  | 0   | 0   | 0   |
| (215) Photo of abutment 1 with sandblasting material on cap.<br>From joint repairs in 2021..  |   |       |       |      |     |     |     |
| 225   | Steel Pile  | EA    | 24    | 24   | 0   | 0   | 0   |
| (225) STEEL PILE INCASED BY CONCRETE..  |   |       |       |      |     |     |     |
| 234   | Reinforced Concrete Pier Cap  | LF    | 258   | 258  | 0   | 0   | 0   |
| (234) 6/23 typical photo of cap photos taken of bent 4&5  |   |       |       |      |     |     |     |
| 302   | Compression Joint Seal  | LF    | 256   | 256  | 0   | 0   | 0   |
| (302) 6/2023 photo of joint at bent 2 good condition. Note typical good condition for all other joints.<br>joints were rework in 2021..   |   |       |       |      |     |     |     |
| 311   | Movable Bearing   | EA    | 30    | 30   | 0   | 0   | 0   |
| (311) 6/2023 typical photo of bearings in good condition. some light rusting to weathering steel.   |   |       |       |      |     |     |     |
| 313   | Fixed Bearing   | EA    | 30    | 30   | 0   | 0   | 0   |
| (313) 6/2023 typical photo of bearings in good condition.. some light rusting to weathering steel.  |   |       |       |      |     |     |     |
| 331   | Reinforced Concrete Bridge Railing  | LF    | 404   | 404  | 0   | 0   | 0   |
| (331) 6/2023 Typical photo of concrete bridge railing in good condition   |   |       |       |      |     |     |     |



Elevation\_058770\_20230606Drone photo



Deck\_05877\_20230606Drone photo



deck drone photo 20230606



AL\_05877\_20230606Drone photo





06/06/2023

Chennal\_05877\_20230606Drone photo



06/06/2023

6/23 elevation photo take of right side bridge directions oh logmile.



06/06/2023

6/23 typical photo of cap photos taken of bent 4&5



06/06/2023

6/2023 Light brown rusting on out side beam in span span 3 left side photo taken





6/2023 channel photo



6/2023 typical bent photos steel piles with concrete encasement



6/2023 Typical photo of wearing steel beams all spans



cracking with white efflorescence .photo taken in span 2 bay 1 at bent 2 area





6/2023 typical photo of bearings



6/2023 typical photo of bearings



Photo of abutment 1 with sandblasting material on cap.From joint repairs in 2021.



6/2023 photo of abutment 1





06/06/2023

Photo of abutment 1 with sandblasting material on cap. From joint repairs in 2021.



06/06/2023

6/2023 typical photo of weathering steel beams. Photo taken in span 1



06/06/2023

6/2023 typical cracking in deck top side most all spans photo taken in span 2 near bent 3



06/06/2023

6/2023 Typical photo of concrete bridge railing in good condition





06/06/2023

6/2023 photo of joint 1 beginning of bridge in good condition



06/06/2023

6/2023 photo of joint at bent 2 good condition.



06/06/2023

6/2023 unsealed cracks in deck photo of span 1 left side.



06/06/2023

6/2023 small cracks in deck some sealed in past.





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6/2023 typical deck photo



Alignment 6/2023





Asset #05877(Routine)

SH 19-SEC 5 - 8.39 over BRUSHEY CREEK

Location: 8.83 MI NO JCT US 67

Team Lead: John King Inspection Date: 06/06/2023

## 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

06/2023 very small cracks in deck , some have been sealed in past.

#### A-55 - Deck Washing Needed

#### A-56 - Joint Cleaning/Flushing Needed

**A-57 - Girder End and Bearing Painting Needed**

**A-58 - Cap Cleaning/Flushing Needed**

Photo of abutment 1 with sandblasting material on cap. other bent have some also..  
From joint repairs in 2021.



Photo of abutment 1 with sandblasting material on cap. From joint repairs in 2021.

**A-59 - Joint Repair Needed**

**A-60 - Full Girder Painting Needed**

**A-61 - Polymer Overlay Advised**

**A-62 - Hydro and LMC Advised**



**Asset #05877**(Routine)

**SH 19-SEC 5 - 8.39 over BRUSHEY CREEK**

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**A-63 - Missing/Incorrect Log Mile Signage**

**A-64 - Vegetation Removal Requested**



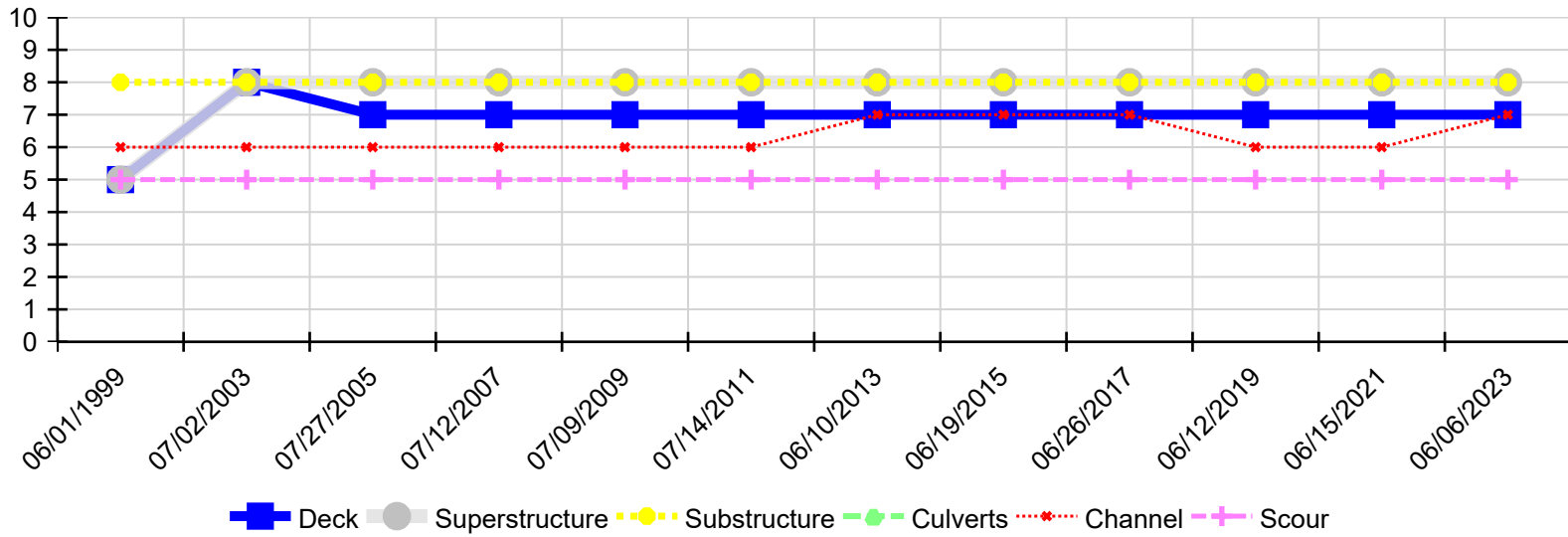


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Condition History



| Inspection Date | Deck | Superstructure | Substructure | Culverts | Channel | Scour |
|-----------------|------|----------------|--------------|----------|---------|-------|
| 06/06/2023      | 7    | 8              | 8            | N        | 7       | 5     |
| 06/15/2021      | 7    | 8              | 8            | N        | 6       | 5     |
| 06/12/2019      | 7    | 8              | 8            | N        | 6       | 5     |
| 06/26/2017      | 7    | 8              | 8            | N        | 7       | 5     |
| 06/19/2015      | 7    | 8              | 8            | N        | 7       | 5     |
| 06/10/2013      | 7    | 8              | 8            | N        | 7       | 5     |
| 07/14/2011      | 7    | 8              | 8            | N        | 6       | 5     |
| 07/09/2009      | 7    | 8              | 8            | N        | 6       | 5     |
| 07/12/2007      | 7    | 8              | 8            | N        | 6       | 5     |
| 07/27/2005      | 7    | 8              | 8            | N        | 6       | 5     |
| 07/02/2003      | 8    | 8              | 8            | N        | 6       | 5     |
| 06/01/1999      | 5    | 5              | 8            | N        | 6       | 5     |