



Latitude:35.80464, Longitude:-91.88929

Route:14 Section:07 Log:15.677

Arnold Road ID:69x14x7xA, Arnold Log mile:15.588

District 05, 137 - Stone County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

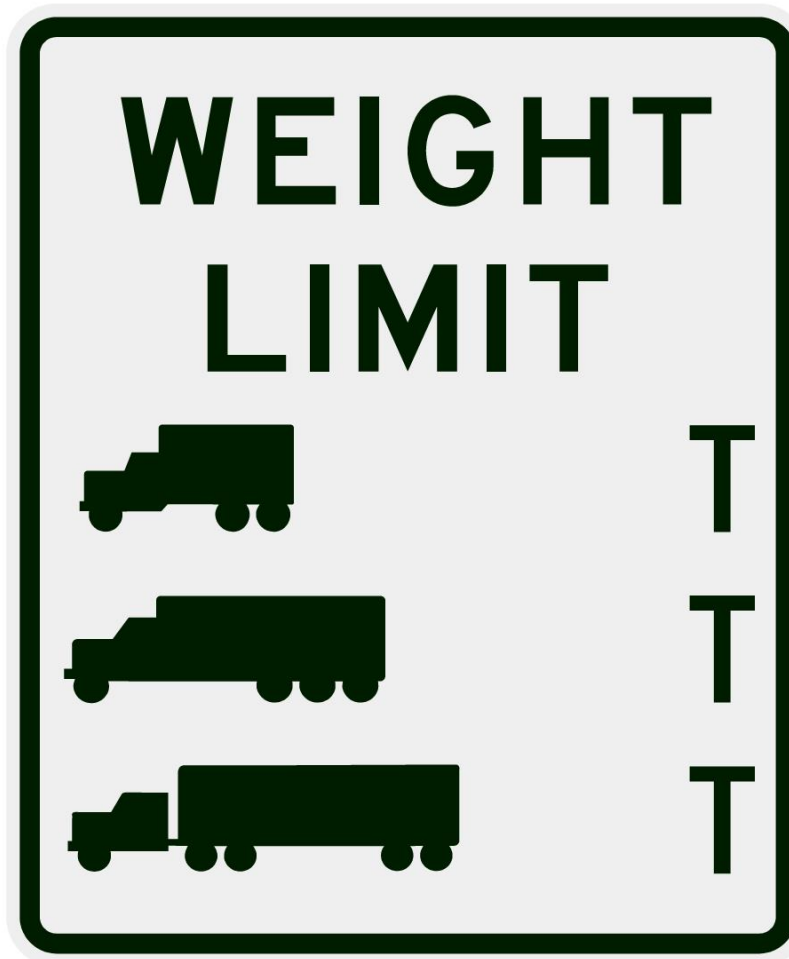
Bridge Posting Information

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

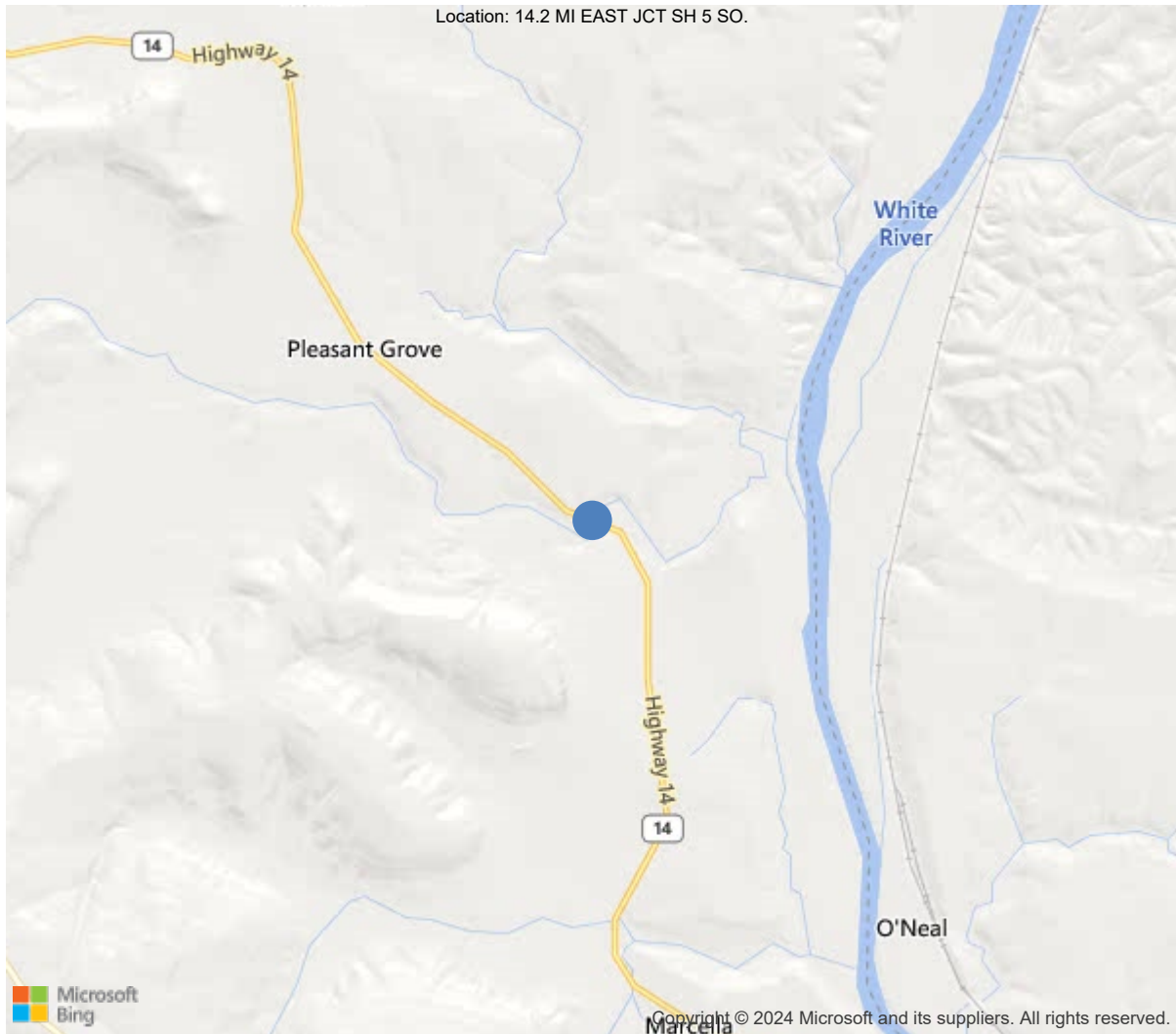
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	43		
Code 9 (31 Tons)	48		
Code 5 (40 Tons)	56		

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



35.80464, -91.88929



Asset #05407(Routine, Underwater type 2)

SH 14/Stone County over MILL CREEK

Location: 14.2 MI EAST JCT SH 5 SO.

Team Lead: Floyd Haley Inspection Date: 04/03/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05407
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	137 - Stone County
(4) Place Code	0
(6) Features Intersected	MILL CREEK
(7) Facility Carried	SH 14/Stone County
(9) Location	14.2 MI EAST JCT SH 5 SO.
(11) Mile Point	15.677 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000014070
(16) Latitude	35.80464
(17) Longitude	-91.88929
(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	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	1971
(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	1600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	175 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	37.7 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 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	35.1 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	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	8 - 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	1855
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/03/2024		
(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 #05407(Routine, Underwater type 2)

SH 14/Stone County over MILL CREEK

Location: 14.2 MI EAST JCT SH 5 SO.

Team Lead: Floyd Haley Inspection Date: 04/03/2024

General Observation

Elevation with Log Mile running to the Right.
Job 5617

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Deck is in overall Satisfactory condition with areas of moderate abrasion to deck . Undersurface of deck has minor hairline cracking, areas of delamination and spalling with reinforcing steel exposed around drain openings and outside edges of deck over bents.

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

Superstructure is in overall Satisfactory condition with undersurface of deck having minor hairline cracking, areas of delamination and spalling with reinforcing steel exposed around drain openings and outside edges of deck over bents.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Substructure is in overall Good condition with areas of minor hairline cracking along bottom of all caps and a spall with reinforcing steel exposed to Left end of cap @ Bent 1.

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.)

Channel is in overall Good condition with only minor repairs needed.

A-51 - Inspection Direction (4 - W to E)

Roadway with Log Mile running West to East.



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Team Lead: Floyd Haley Inspection Date: 04/03/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	6317	6145	28	144	0
1080	Delamination/Spall/Patched Area	SF	28	0	20	8	0
1090	Exposed Rebar	SF	8	0	0	8	0
1120	Efflorescence/Rust Staining	SF	8	0	8	0	0
1190	Abrasion/Wear (PSC/RC)	SF	128	0	0	128	0
(38) 13' patched area to deck in Left lane @ beginning of Span 2. Moderate to heavy scaling to Left and Right gutter lines & near centerline @ Spans 1 & 5 & in Left gutter line @ Span 2. Deep Spalls over cap @ all Bents. Spalls with 2'rebar exposed to Left & Right outside edges of deck @ Bent 4. Spall with 3' of exposed rebar to undersurface of deck at Left drain opening @ Span 2. 1' delaminated area to undersurface of deck @ Right drain opening @ Span 2. Spall with 1' of exposed rebar to undersurface of deck at Left drain opening @ Span 3. Spalls with 2' of exposed rebar to undersurface of deck at Left & Right drains @ Span 4. 6' delaminated area with efflorescent map cracking to undersurface of deck @ Right drain opening @ Span 4. Minor efflorescent cracks to undersurface of deck. Minor hairline cracking to undersurface of deck.							
205	Reinforced Concrete Column	EA	8	8	0	0	0
(205) Bent 3 -Minor local scour @ Columns 1 & 2.							
215	Reinforced Concrete Abutment	LF	102	102	0	0	0
(215) Abutment 2: minor embankment erosion.							
234	Reinforced Concrete Pier Cap	LF	144	114	29	1	0
1010	Cracking	LF	29	0	29	0	0
1090	Exposed Rebar	LF	1	0	0	1	0
(234) Deep spall with reinforcing steel exposed to Left end of cap @ Bent 1.CS3 Minor cracking to bottom of all caps.							
301	Pourable Joint Seal	LF	136	0	0	136	0
2320	Seal Adhesion	LF	136	0	0	136	0
(301) Pourable joint seals: Adhesion failure. CS3.							
330	Metal Bridge Railing	LF	350	350	0	0	0



Elevation.



Typical undersurface.



Typical deck.



Left side of bridge: Channel view.



Right side of bridge: Channel view.



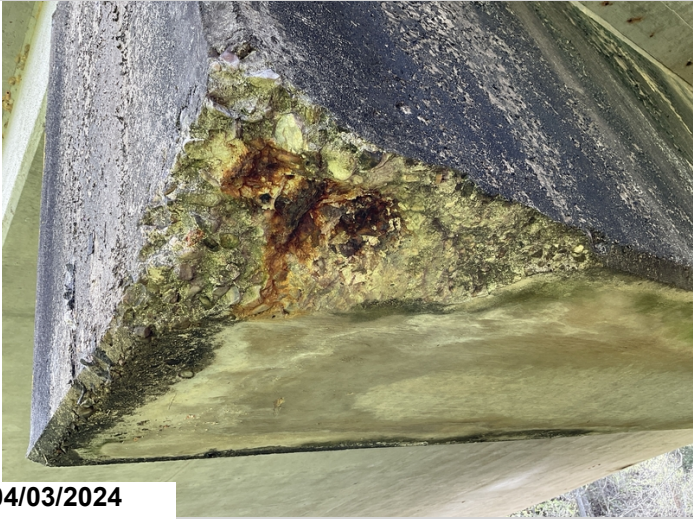
Inventory.



Span 5: minor hairline longitudinal cracking.



Abutment 2: minor embankment erosion.



04/03/2024

Bent 1, Left, Bottom: spalling with exposed reinforcing steel. CS3.



04/03/2024

Bents 1, 2, 3, & 4, Bottom: cracking. CS2.



04/03/2024

Joints at Bents 1 - 4: Typical seal adhesion failure. CS3.



04/03/2024

Span 4, Right drain: delaminated with minor efflorescence.



Span 2, Bent 1: 13' patched area in Left lane. CS2.



Span 5, Right gutter line: unsound patch.



Span 1, Bent 1: cracking with efflorescence.



Span 4, Left & Right drains: spalling with exposed reinforcing steel. CS3.



Spans 4 & 5, Bent 4, Right & Left edge of slab: spalling with exposed reinforcing steel. CS3.



Span 1, Left gutter line: moderate abrasion. CS3.



Span 5, Right & Left gutter lines: moderate abrasion. CS3.

Maintenance Needs

Date Reported: 04/04/2016

Priority: D- Routine

Type of Work: Deck Repair

Status: Monitor

Component: Deck

Deficiency Description

Deck Spans 1, 2 & 5: Moderate to severe abrasion

Spans 1 & 2: Moderate to severe abrasion to Left Gutter Line.

Span 5: Moderate to severe abrasion to Left & Right Gutter Lines.

Remarks



04/19/2022

Span 5: Moderate to severe abrasion to Left & Right Gutter Lines.



04/19/2022

Spans 1 & 2: Moderate to severe abrasion to Left Gutter Line.



04/02/2020

Severe scaling to Left gutter line @ Span 1



04/02/2020

Severe scaling to Right gutter line @ Span 5 Right.

Maintenance Needs

Date Reported: 04/04/2016

Priority: D- Routine

Type of Work: Superstructure Repair

Status: Monitor

Component: Superstructure

Deficiency Description

Spalls, some with reinforcing steel exposed to Outside Edge of Deck @ Bents 2, 3 & 4.

Remarks



Span 2, Left edge of slab, Midspan & Bent 2: spalling with exposed reinforcing steel.



Spalls to Outside Edge of Deck @ Bents 2 & 4Lt side of bent 4.



Spalls to Outside Edge of Deck @ Bents 2 & 4Rt side bent 2.



Span 5 Scaling to Left & Right Gutter Lines.



04/02/2020

Spall with 3' rebar exposed to outside of deck @ Span 2 Left.



04/02/2020

Deep Spalls to deck over cap @ Right edge of Bent 4.
(Typical of Bent 4 Left & Right & Bent 2 Left.)



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Team Lead: Floyd Haley Inspection Date: 04/03/2024

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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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

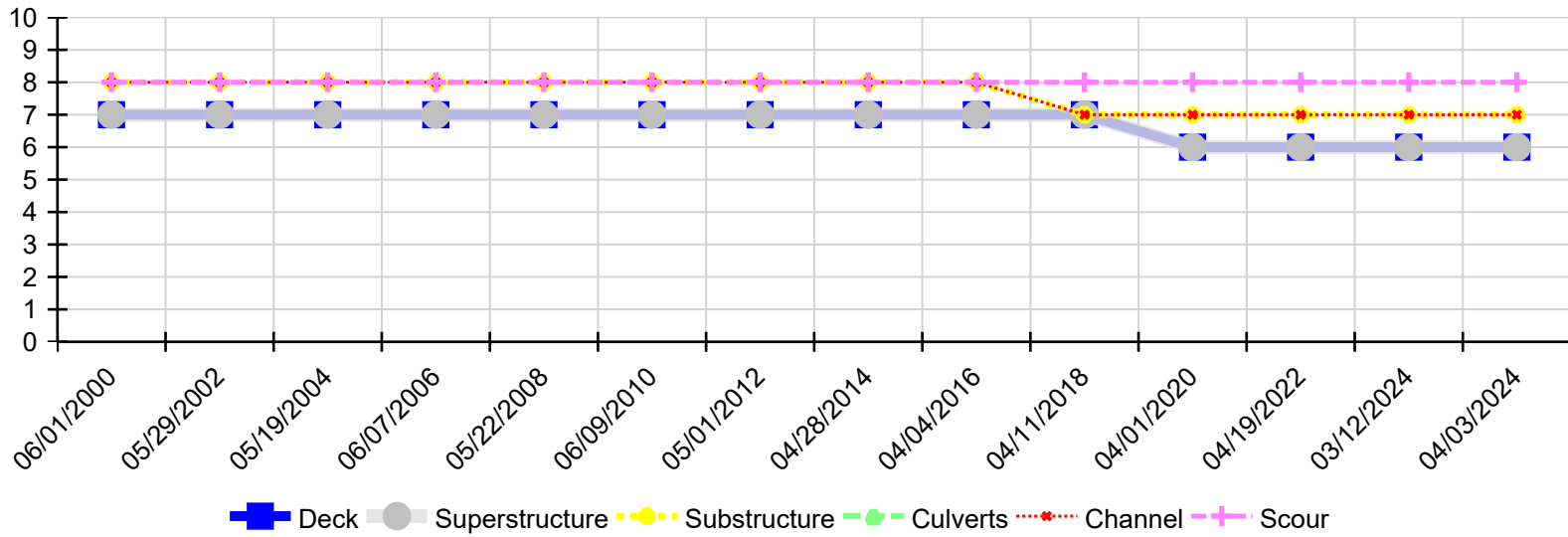
A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/03/2024	6	6	7	N	7	8
03/12/2024	6	6	7	N	7	8
04/19/2022	6	6	7	N	7	8
04/01/2020	6	6	7	N	7	8
04/11/2018	7	7	7	N	7	8
04/04/2016	7	7	8	N	8	8
04/28/2014	7	7	8	N	8	8
05/01/2012	7	7	8	N	8	8
06/09/2010	7	7	8	N	8	8
05/22/2008	7	7	8	N	8	8
06/07/2006	7	7	8	N	8	8
05/19/2004	7	7	8	N	8	8
05/29/2002	7	7	8	N	8	8
06/01/2000	7	7	8	N	8	8