



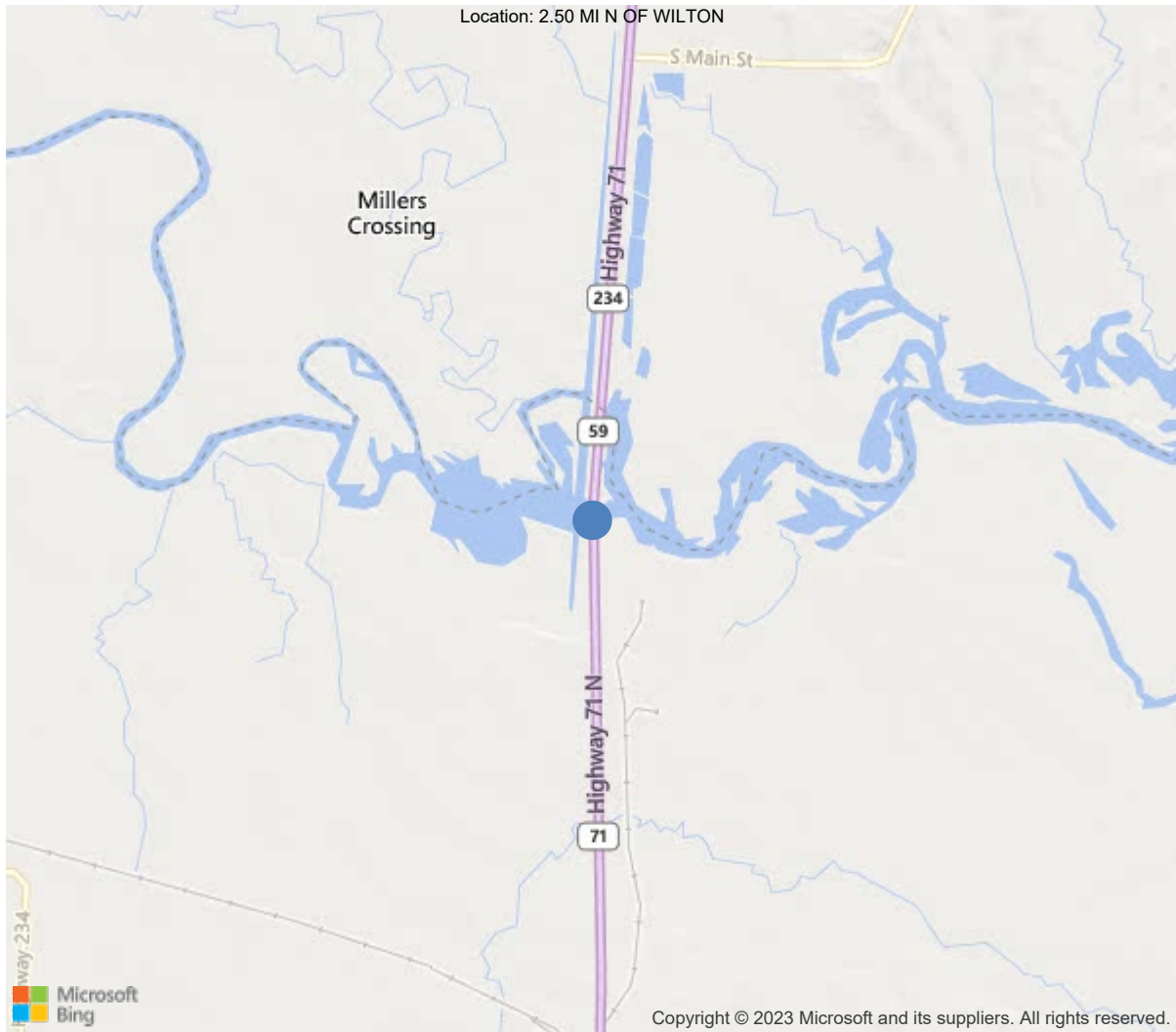
Latitude:33.78252, Longitude:-94.14867

Route:71 Section:04 Log:18.35

Arnold Road ID:41x71x4xA, Arnold Log mile:18.164

District 03, 81 - Little River County

Owner: 1 - State Highway Agency



33.78252, -94.14867



Asset #03674(Routine)

US 71 SEC.04-18.35 over LITTLE RIVER

Location: 2.50 MI N OF WILTON

Team Lead: John King, Inspection Date: 03/21/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03674
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	81 - Little River County
(4) Place Code	0
(6) Features Intersected	LITTLE RIVER
(7) Facility Carried	US 71 SEC.04-18.35
(9) Location	2.50 MI N OF WILTON
(11) Mile Point	18.35 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.78252
(17) Longitude	-94.14867
(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	9
(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	1965
(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	5700
(30) Year of ADT	2018
(109) Truck ADT	13 %
(19) Bypass, Detour Length	45 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	80 ft
(49) Structure Length	602 ft
(50) Curb or Sidewalk Width	
Left	1.7 ft
Right	1.7 ft
(51) Bridge Roadway Width Curb to Curb	28.2 ft
(52) Deck Width Out to Out	33.5 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	30.8 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	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	2 - The inventory route is on
(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	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	4
(59) Superstructure	6
(60) Substructure	5
(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	5
(68) Deck Geometry	4
(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	35 - Bridge rehabilitation bec
(76) Length of Structure Improvement	602 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 905
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	5892
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/21/2022		
(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.			

**General Observation**

BOAT NEEDED TO TAKE SOUNDINGS....3/23/2020...AL,Elevation, Deck, Def. Photos taken...03/08/2021 special on deck little to no change in condition...sounding taken with boat photo taken 03/21/2022... Alignment and Elevation photos taken... Updated quantities for deck patching per this inspection...

58 - Deck (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour)

Curbs: SOME MINOR DAMAGE Wearing Surface: DECK PATCHES 29.33% patched...3/27/2017.. AL,CH,SS,DECK PHOTO TAKEN SPECIAL INSPECTION WITH LITTLE TO NO CHANGE IN DECK3/20/2018 AL,CH,SS,DECK PHOTOS TAKEN PER THIS INSPECTION...3/21/2019...Special recurring on deck. AL, SS, Deck photos taken. Patch quantities updated per this inspection... 03/2022... Deck photos taken. Patching quantities updated per this inspection... End of bridge Lt side approach is cracking and spalling.

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

Other: WELDS/CRACKS

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

Reinforced Concrete Pier Wall, Reinforced Concrete columns, Reinforced concrete abutment, Reinforced concrete pier caps..... 03/2022... Little to no change per this inspection...

A-46 - Asset Files

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Asset #03674(Routine)

US 71 SEC.04-18.35 over LITTLE RIVER

Location: 2.50 MI N OF WILTON

Team Lead: John King, Inspection Date: 03/21/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	18100	12310	65	5725	0
1080	Delamination/Spall/Patched Area	SF	5715	0	0	5715	0
1090	Exposed Rebar	SF	10	0	0	10	0
1120	Efflorescence/Rust Staining	SF	40	0	40	0	0
1130	Cracking (RC and Other)	SF	25	0	25	0	0
(12) 5709 sqft of deck is patched. 2019 updated patched areas to 5715 sq ft (1090-12) 03/2022... spalls on underside of deck at various locations.							
107	Steel Open Girder/Beam	LF	3010	2967	43	0	0
1000	Corrosion	LF	43	0	43	0	0
515	Steel Protective Coating	SF	24080	24037	0	0	43
3440	Effectiveness (Steel Protective Coatings)	LF	43	0	0	0	43
(107) PAINTED IN 2011 (1000-107) 3/26/2020...Rust in various locations on outside beams...							
205	Reinforced Concrete Column	EA	16	11	0	5	0
1080	Delamination/Spall/Patched Area	EA	5	0	0	5	0
(205) SPALLS ON COLUMN #1 AND #2 BENT 3, COLUMN #1 BENT 4, COLUMN #2 BENT 5 AND COLUMN #2 BENT 6.							
215	Reinforced Concrete Abutment	LF	56	56	0	0	0
234	Reinforced Concrete Pier Cap	LF	232	212	0	20	0
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
(234) SPALLS AND CRACKS ON CAPS AT BENTS 2, 3, 4, 5, 6, 7, AND 8.							
305	Assembly Joint without Seal	LF	280	280	0	0	0
311	Movable Bearing	EA	45	21	24	0	0
1000	Corrosion	EA	22	0	22	0	0
2210	Movement	EA	2	0	2	0	0
(311) 03/2022... anchor bolts are backing out or not tightened at various locations							
313	Fixed Bearing	EA	45	21	22	2	0
1000	Corrosion	EA	24	0	22	2	0
(313) 03/2022... anchor bolts are backing out or not tightened at various locations							
330	Metal Bridge Railing	LF	1204.3	1204.3	0	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(330)	3/26/2020...Metal bridge railing was repainted on 2/26/2020....						



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Deck

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1080	Delamination/Spall/Patched Area	SF	5715	0	0	5715	0
1090	Exposed Rebar	SF	10	0	0	10	0
1120	Efflorescence/Rust Staining	SF	40	0	40	0	0
1130	Cracking (RC and Other)	SF	25	0	25	0	0
(12) 5709 sqft of deck is patched. 2019 updated patched areas to 5715 sq ft							
(1090-12) 03/2022... spalls on underside of deck at various locations.							

58 - Deck (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour)

Comment: Curbs: SOME MINOR DAMAG E Wearing Surface: DECK PATCHES 29.33% patched...3/27/2017..

AL,CH,SS,DECK PHOTO TAKEN SPECIAL INSPECTION WITH LITTLE TO NO CHANGE IN

DECK3/20/2018 AL,CH,SS,DECK PHOTOS TAKEN PER THIS INSPECTION...3/21/2019...Special recurring on deck.

AL, SS, Deck photos taken. Patch quantities updated per this inspection...

03/2022... Deck photos taken. Patching quantities updated per this inspection... End of bridge Lt side approach is cracking and spalling.



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US 71 SEC.04-18.35 over LITTLE RIVER

Location: 2.50 MI N OF WILTON

Team Lead: John King, Inspection Date: 03/21/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	3010	2967	43	0	0
1000	Corrosion	LF	43	0	43	0	0
515	Steel Protective Coating	SF	24080	24037	0	0	43
3440	Effectiveness (Steel Protective Coatings)	LF	43	0	0	0	43
(107) PAINTED IN 2011							
(1000-107) 3/26/2020...Rust in various locations on outside beams...							

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

Comment: Other: WELDS/CRACKS



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Team Lead: John King, Inspection Date: 03/21/2022

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	16	11	0	5	0
1080	Delamination/Spall/Patched Area	EA	5	0	0	5	0
(205) SPALLS ON COLUMN #1 AND #2 BENT 3, COLUMN #1 BENT 4, COLUMN #2 BENT 5 AND COLUMN #2 BENT 6.							
215	Reinforced Concrete Abutment	LF	56	56	0	0	0
234	Reinforced Concrete Pier Cap	LF	232	212	0	20	0
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	10	0	0	10	0
(234) SPALLS AND CRACKS ON CAPS AT BENTS 2, 3, 4, 5, 6, 7, AND 8.							

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

Comment: Reinforced Concrete Pier Wall, Reinforced Concrete columns, Reinforced concrete abutment, Reinforced concrete pier caps.....

03/2022... Little to no change per this inspection...



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Location: 2.50 MI N OF WILTON

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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



03/2022... elevation



03/2022... elevation



03/2022... alignment



03/2022... alignment



03/2022... end of bridge approach cracked and damaged



Undersurface span 2



Deck



Underside of deck typical all spans



Typical Bent



Alignment



Elevation - Downstream



Elevation



Elevation



SIDE SHOT. ELEVATION



ELEVATION



Crack/Delam at gutter



Exposed Bar Downstream Span 3



Span 7 Deck crack with Efflorescence



Exposed bar span 2



Spall - Exposed Bar



Cracking Bent 7 Cap



CS2 Corrosion Bearing Bent 6



Bearing Position at 65 Degrees



CS2 Corrosion Bearing Bent 3



CS2 Corrosion Bent 7



CS3 Corrosion Bearing Bent 9



03/2022... underside of deck typical all spans



03/2022... spall and crack Rt side beginning of bridge



03/2022... steel beams typical all spans



03/2022... Typical bent



03/2022... anchor bolts are backing out or not tightened at various locations



03/2022... anchor bolts are backing out or not tightened at various locations



03/2022... typical photo of deck all spans



03/2022... LT side span 6 existing patch spalling



03/2022... cracking on overhangs various locations



03/2022... span 7 Rt side spalls... spalls at various locations
on bridge

Maintenance Needs

Date Reported: 03/22/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Miscellaneous

Deficiency Description

Rt side of bridge OM-3 signs damaged

Remarks



Rt side of bridge log mile sign damaged



Rt side of bridge OM3 signs damaged

Maintenance Needs

Date Reported: 03/22/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Deck

Deficiency Description

03/2022... Span 6 LT side existing patch starting to spall and various locations on deck are hollow... found Delams in various locations on deck

Remarks



03/2022... LT side span 6 existing patch spalling



03/2022... Rt side last span delam



03/2022... LT side span 7 spalls



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Team Lead: John King, Inspection Date: 03/21/2022

Maintenance Needs

Date Reported: 03/22/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Approach

Deficiency Description

03/2022... End of bridge LT side approach needs repaired due to cracking and spalling

Remarks



03/2022... End of bridge approach cracked and damaged



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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	



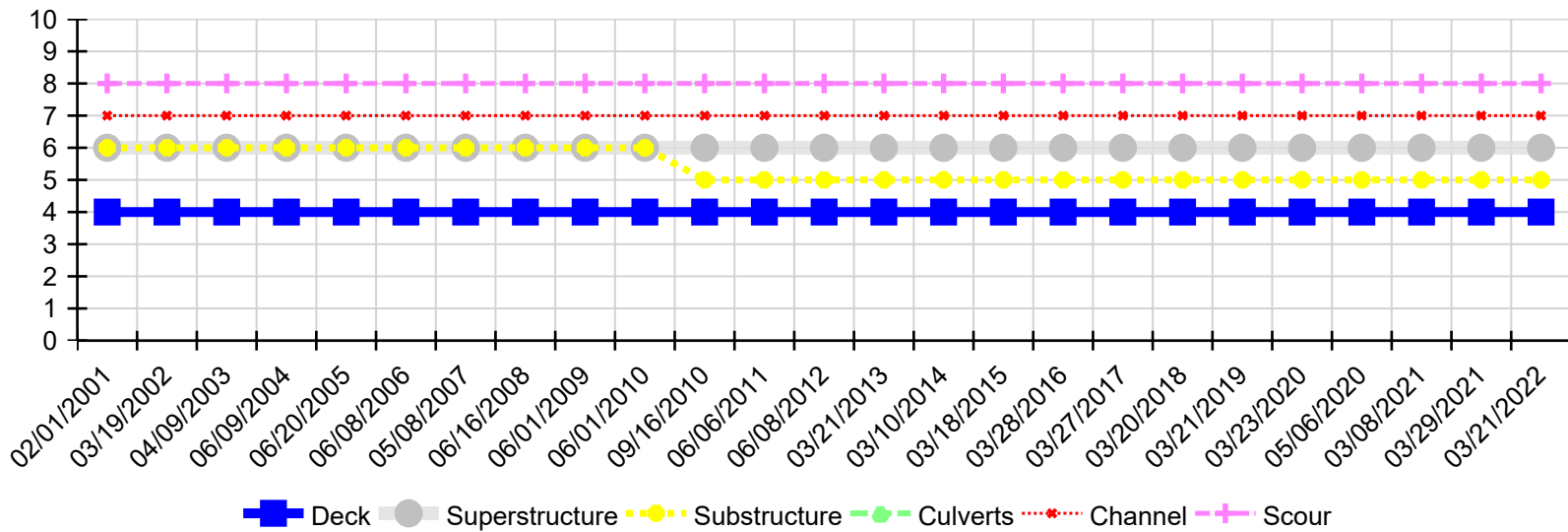
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/21/2022	4	6	5	N	7	8
03/29/2021	4	6	5	N	7	8
03/08/2021	4	6	5	N	7	8
05/06/2020	4	6	5	N	7	8
03/23/2020	4	6	5	N	7	8
03/21/2019	4	6	5	N	7	8
03/20/2018	4	6	5	N	7	8
03/27/2017	4	6	5	N	7	8
03/28/2016	4	6	5	N	7	8
03/18/2015	4	6	5	N	7	8
03/10/2014	4	6	5	N	7	8
03/21/2013	4	6	5	N	7	8
06/08/2012	4	6	5	N	7	8
06/06/2011	4	6	5	N	7	8
09/16/2010	4	6	5	N	7	8
06/01/2010	4	6	6	N	7	8
06/01/2009	4	6	6	N	7	8
06/16/2008	4	6	6	N	7	8
05/08/2007	4	6	6	N	7	8
06/08/2006	4	6	6	N	7	8
06/20/2005	4	6	6	N	7	8
06/09/2004	4	6	6	N	7	8
04/09/2003	4	6	6	N	7	8
03/19/2002	4	6	6	N	7	8
02/01/2001	4	6	6	N	7	8