

P2 Bridge Preservation - Replacement/Rehab Projects

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
------------	------------------	-------------	--------------	--------	--------	----------------------------

Total Number of Bridges = 0



P2 Bridge Preservation - Bridge Repair

2011-13 Bien Priority Array

(Sorted by Priority Number)

11-13 #	Bridge Number	Bridge Name	Region	Repair Description	Bridge Item\$'s
42	153/16	METHOW R	North Central	Concrete Bridge Rail	\$190,000
43	153/17	METHOW R	North Central	Concrete Bridge Rail	\$125,000
88	20/651	BONAPARTE CR	North Central	Replace Bridge Rail	\$250,000
Total Number of Bridges = 3				Totals \$ =	\$565,000



P2 Bridge Preservation - Bridge Repair

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Region	Repair Description	Bridge Item\$'s
88	20/651	BONAPARTE CR	North Central	Replace Bridge Rail	\$250,000
42	153/16	METHOW R	North Central	Concrete Bridge Rail	\$190,000
43	153/17	METHOW R	North Central	Concrete Bridge Rail	\$125,000
Total Number of Bridges = 3				Totals \$ =	\$565,000



Bridge Preservation Program (P2)

Bridge Repair Form

Bridge Number: 20 / 651		Structure ID 0001738A		Bridge Name: BONAPARTE CR		Milepost: 262.83		Region: North Central					
Year Built / YR Widened: 1933		Bridge Type: CA CS		Bridge Length: 118 ft		Bridge Width (curb-curb): 24.0 ft		Sufficiency Rating: 46.48					
Average Daily Traffic: Truck%		Freight Route		Num of Lanes: 2									
Date Inspected: 3/17/2007		Structr Adequacy:		Superstr Code: 6						Safe Load:		Substr Code: 5	
BMS Element Num: 331		BMS Element Descr: Concrete Bridge Rail		BMS Element Quantity: 236						Project Number: 2011-13 Priority#: 88		Repair Year: 2009-11 Priority#: 999	
CPMS Ad Date:		Bridge \$'s:		Repair Total\$'s: \$700,000									
													
Repair Description: Replace Bridge Rail and repair concrete braces that support the bridge rail.													
COMMENTS													

Bridge Preservation Program (P2)

Bridge Repair Form

Bridge Number: 153 / 16		Structure ID 0003507A		Bridge Name: METHOW R		Milepost: 16.85		Region: North Central	
Year Built / YR Widened: 1939 / 1949		Bridge Type: CTB		Bridge Length: 454 ft		Bridge Width (curb-curb): 24.0 ft		Sufficiency Rating: 38.67	
Average Daily Traffic: 865		Truck% 12%		Freight Route		Num of Lanes: 2			
Date Inspected: 9/27/2006		Structr Adequacy: 4		Superstr Code: 6		Safe Load: 5			
Substr Code: 5		Scour: 3		BMS Element Num: 331		BMS Element Descr: Concrete Bridge Rail			
BMS Element Quantity: 908 LF		Project Number:		2011-13 Priority#: 42		2009-11 Priority#: 50			
Repair Year: 2016		CPMS Ad Date:		Bridge \$'s: \$190,000		Repair Total\$'s: \$275,000			
									
Repair Description: Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.									
COMMENTS									
The concrete balluster bridge rails are deteriorated with exposed reinforcing steel. The costs and details for the concrete bridge rail replacement should be similar to those used on bridge 153/20 (16315) in 2002.									

Bridge Preservation Program (P2)

Bridge Repair Form

Bridge Number: 153 / 17		Structure ID 0002450E		Bridge Name: METHOW R		Milepost: 18.91		Region: North Central	
Year Built / YR Widened: 1939		Bridge Type: CTB		Bridge Length: 302 ft		Bridge Width (curb-curb): 24.0 ft		Sufficiency Rating: 49.87	
Average Daily Traffic: 865		Truck% 12%		Freight Route		Num of Lanes: 2			
Date Inspected: 9/27/2006		Structr Adequacy: 5		Superstr Code: 6		Safe Load: 5			
Substr Code: 5		Scour: 5		BMS Element Num: 331		BMS Element Descr: Concrete Bridge Rail			
BMS Element Quantity: 604 LF		Project Number:		2011-13 Priority#: 43		2009-11 Priority#: 51			
Repair Year: 2016		Bridge \$'s: \$125,000		Repair Total\$'s: \$185,000		CPMS Ad Date:			
<p>Repair Description:</p> <p>Remove the concrete baluster bridge rails and replace with a new Thrie Beam rail. Add a new metal pedestrian rail to the sidewalk.</p>									
<p>COMMENTS</p> <p>The concrete balluster bridge rails are deteriorated with exposed reinforcing steel.</p> <p>The costs and details for the concrete bridge rail replacement should be similar to those used on bridge 153/20 (16315) in 2002.</p>									

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects



2011-13 Bien Priority Array

(Sorted by Priority Number)



09-11 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
20	24/302	SAGEHILL WASTEWAY	74.15	North Central	\$84,792	\$283,162
54	153/16	METHOW R	16.85	North Central	\$119,781	\$201,830
55	153/17	METHOW R	18.91	North Central	\$82,607	\$139,193
56	153/20	METHOW R	22.31	North Central	\$90,202	\$151,990
Total Number of Bridges = 4				Totals \$ =	\$377,381	\$776,174





BRIDGE NUMBER: 24 / 302	BRIDGE NAME: SAGEHILL WASTEWAY	REGION: North Central	MILEPOST: 74.15
YEAR BUILT / YR WIDENED: 1965	CONTRACT NO.(S): 07703	SUFFICIENCY RATING: 81.35 SD	
BRIDGE TYPE: CS DECK TYPE: Conc cast-in-place DECK THICKNESS: (Main Span) 17.0 in.		EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: original concrete	
BRIDGE WIDTH (curb-curb): 36.5 ft.	BRIDGE LENGTH: 46 ft.		
AVERAGE DAILY TRAFFIC (ADT): 3,892	NUMBER OF LANES: 2		
VERTICAL CLEARANCE VC Type: NA			
BRIDGE RAIL		DECK PROTECTIVE SYSTEM RECOMMENDATIONS PROTECTIVE OVERLAY RECOMMENDED?: Yes TYPE RECOMMENDED: ACP w/Memb	
BRIDGE RAIL TYPE: Conc Base - Type R	RAIL MEETS CURRENT STANDARDS?: YES		
SIDEWALK / CURB WIDTH: 0.7 Lt 0.7 Rt		COMMENTS: The bridge deck has nearly 2% deterioration. We recommend the deck be patched and a membrane and 0.25' of HMA be applied.	
EXPANSION JOINTS		REVIEWED BY: <i>Bruce Thill</i>	
		DATE: 2/25/2010	



BRIDGE NUMBER: 153 / 16		BRIDGE NAME: METHOW R		REGION: North Central		MILEPOST: 16.85	
YEAR BUILT / YR WIDENED: 1939		CONTRACT NO.(S): 03507 , 10053 , 15037			SUFFICIENCY RATING: 48.16		
BRIDGE TYPE: CTB DECK TYPE: Conc cast-in-place DECK THICKNESS: 7.0 in. <small>(Main Span)</small> BRIDGE WIDTH (curb-curb): 24.0 ft. BRIDGE LENGTH: 454 ft. AVERAGE DAILY TRAFFIC (ADT): 1,321 NUMBER OF LANES: 2				EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: ACP w/membrane Year Applied - 1975 Overlay Thickness - 3.0 inches			
VERTICAL CLEARANCE VC Type: NA							
BRIDGE RAIL BRIDGE RAIL TYPE: WSDOT CODE - 41 Balluster Rail RAIL MEETS CURRENT STANDARDS?: NO SIDEWALK / CURB WIDTH: 0.5 Lt 3.5 Rt							
EXPANSION JOINTS				DECK PROTECTIVE SYSTEM RECOMMENDATIONS PROTECTIVE OVERLAY RECOMMENDED?: YES TYPE RECOMMENDED: ACP w/Memb RESURFACING COMMENT The concrete bridge deck is showing signs of distress. We recommend: removing the 0.25' ACP; deck prep; place 0.25' HMA with membrane. The bridge rails are also in need of replacement.			
				REVIEWED BY: <i>Bruce Thill</i>		DATE: 2/22/2010	



BRIDGE NUMBER: 153 / 17	BRIDGE NAME: METHOW R	REGION: North Central	MILEPOST: 18.91
YEAR BUILT / YR WIDENED: 1939	CONTRACT NO.(S):	SUFFICIENCY RATING: 49.32	
BRIDGE TYPE: CTB DECK TYPE: Conc cast-in-place DECK THICKNESS: 7.0 in. (Main Span)	BRIDGE WIDTH (curb-curb): 24.0 ft. BRIDGE LENGTH: 302 ft. AVERAGE DAILY TRAFFIC (ADT): 1,321 NUMBER OF LANES: 2	EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: ACP w/membrane Year Applied - 1975 Overlay Thickness - 1.8 inches	
VERTICAL CLEARANCE VC Type: NA			
BRIDGE RAIL BRIDGE RAIL TYPE: WSDOT CODE - 41 Balluster Rail RAIL MEETS CURRENT STANDARDS?: NO SIDEWALK / CURB WIDTH: 0.4 Lt 3.5 Rt			
EXPANSION JOINTS Coordinate with your Region's Maintenance Office to determine if any repairs are required.		DECK PROTECTIVE SYSTEM RECOMMENDATIONS PROTECTIVE OVERLAY RECOMMENDED?: YES TYPE RECOMMENDED: RR 0.15 HMA / mem RESURFACING COMMENT The concrete bridge deck is showing signs of distress. We recommend: removing the 0.15' ACP; deck prep; place 0.25' HMA with membrane. Expansion joint modification is required. The bridge rails are also in need of replacement.	
REVIEWED BY: <i>Bruce Thill</i>		DATE: 2/22/2010	



BRIDGE NUMBER: 153 / 20		BRIDGE NAME: METHOW R		REGION: North Central		MILEPOST: 22.31	
YEAR BUILT / YR WIDENED: 1935		CONTRACT NO.(S): 01976 , 10053 , 14375 , 16315			SUFFICIENCY RATING: 54.12		
BRIDGE TYPE: CG DECK TYPE: Conc cast-in-place DECK THICKNESS: 9.0 in. (Main Span)				EXISTING WEARING SURFACE AND DECK PROTECTION TYPE: ACP w/membrane Year Applied - 1975 Overlay Thickness - 3.0 inches			
BRIDGE WIDTH (curb-curb): 24.1 ft.		BRIDGE LENGTH: 438 ft.					
AVERAGE DAILY TRAFFIC (ADT): 1,353		NUMBER OF LANES: 2					
VERTICAL CLEARANCE							
VC Type: NA							
BRIDGE RAIL							
BRIDGE RAIL TYPE: WSDOT CODE - 25 Steel Post - Thrie Beam							
RAIL MEETS CURRENT STANDARDS?: YES		SIDEWALK / CURB WIDTH: 0.0 Lt 3.2 Rt					
EXPANSION JOINTS							
				DECK PROTECTIVE SYSTEM RECOMMENDATIONS			
				PROTECTIVE OVERLAY RECOMMENDED?: YES			
				TYPE RECOMMENDED: RR 0.15 HMA / mem			
				RESURFACING COMMENT			
				The concrete bridge deck is showing signs of distress.			
				We recommend: removing and replacing 0.15' HMA.			
				REVIEWED BY: <i>Bruce Thill</i>		DATE: 2/22/2010	

P2 Bridge Preservation - Steel Bridge Painting Projects

2011-13 Bien Priority Array

(Sorted by Priority Number)



11-13 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project\$
20	207/4	WENATCHEE RIVER	4.22	North Central	2015	\$1,015,000
46	97/420	COLUMBIA R BEEBE	235.06	North Central	2019	\$4,860,000
47	285/10	SEN. GEORGE SELLAR BR.	0.25	North Central	2019	\$8,550,000
68	153/4	METHOW R	4.22	North Central	2021	\$813,750
69	153/101	COLUMBIA R GRAND COULE	28.26	North Central	2021	\$5,625,000

Total Number of Bridges = 5

Total Project \$ = \$20,863,750



P2 Bridge Preservation - Steel Bridge Painting Projects

2011-13 Bien Priority Array

(Sorted by Bridge Number)



11-13 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project\$
46	97/420	COLUMBIA R BEEBE	235.06	North Central	2019	\$4,860,000
68	153/4	METHOW R	4.22	North Central	2021	\$813,750
69	153/101	COLUMBIA R GRAND COULE	28.26	North Central	2021	\$5,625,000
20	207/4	WENATCHEE RIVER	4.22	North Central	2015	\$1,015,000
47	285/10	SEN. GEORGE SELLAR BR.	0.25	North Central	2019	\$8,550,000

Total Number of Bridges = 5

Total Project \$ = \$20,863,750

Steel Bridge Paint Form

2011-13 Biennium Priorities

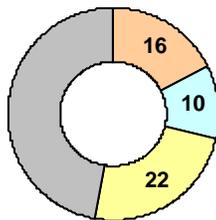


Bridge Number: 97 / 420		Bridge Name: COLUMBIA R BEEBE		Milepost: 235.06	Region: North Central
Year Built 1962	Bridge Type: SA CBOX		Steel Span Length: 1040 ft.	Width (curb-curb): 26 ft.	Steel Tonnage: 1,296
Paint Age: 22	Paint Color: 20040 Dark Brown	Steel Surf. Area: 194,400 sqft	BMS Cond State 2: 20,000 sqft	BMS Cond State 3: 3,000 sqft	
Next Paint Year: 2019	2011-13 Rank: 46	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$4,860,000

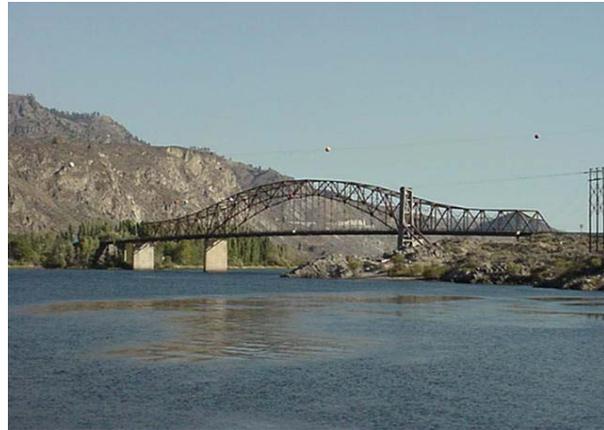
Past Paint History

Years	Cycle
1988	10
1978	16
1962	

Painting Cycle



■ = Current Paint Age



The vertical hangers are color Fed No 30318 - Light Brown.

Bridge Inspection Notes:

Various members of Spans 1, 2, and 3 have areas of peeled paint and primer exposing bare steel and have surface rust. Some of stringers show areas of laminar rust in the top flange at the floorbeam connections. Most of the bottom chord vertical gussets where three members in the vertical plane frame that were filled with dirt are now cleaned. Some of stringers show areas of laminar rust in the top flange at the floorbeam connections. Steel arch in Span 2. Light surface rust on many of the members.

Steel Bridge Paint Form

2011-13 Biennium Priorities

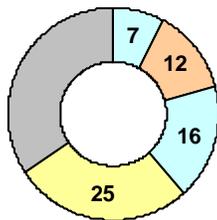


Bridge Number: 153 / 4		Bridge Name: METHOW R		Milepost: 4.22	Region: North Central
Year Built 1950	Bridge Type: ST CTB	Steel Span Length: 220 ft.	Width (curb-curb): 24 ft.	Steel Tonnage: 217	
Paint Age: 25	Paint Color: 30318 Warm Conc Gray	Steel Surf. Area: 32,550 sqft	BMS Cond State 2: 5,000 sqft	BMS Cond State 3: 5 sqft	
Next Paint Year: 2021	2011-13 Rank: 68	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$813,750

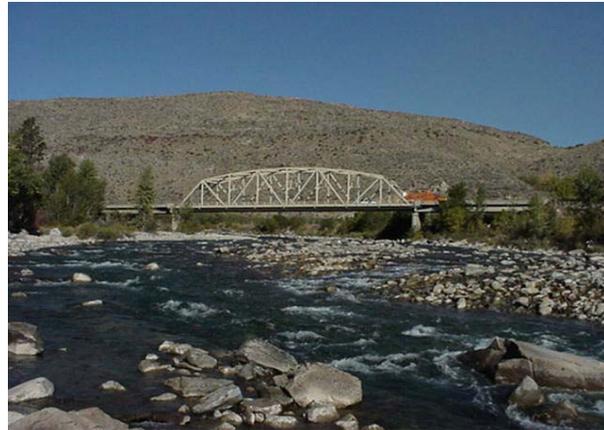
Past Paint History

Years	Cycle
1985	16
1969	12
1957	7
1950	25

Painting Cycle



= Current Paint Age



Inspector's notes:

BOTTOM CHORD - Light crevice rust with no section loss noted.
 FLOORBEAM - Minor surface rust at interface with deck. No section loss.
 PAINT - Very thin and peeling on inside face of top chords.

Steel Bridge Paint Form

2011-13 Biennium Priorities

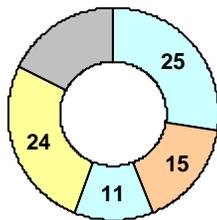


Bridge Number: 155 / 101		Bridge Name: COLUMBIA R GRAND COULEE		Milepost: 28.26	Region: North Central
Year Built 1935	Bridge Type: ST CTB		Steel Span Length: 952 ft.	Width (curb-curb): 20.2 ft.	Steel Tonnage: 1,500
Paint Age: 24	Paint Color: 30318 Warm Conc Gray	Steel Surf. Area: 225,000 sqft	BMS Cond State 2: 25,000 sqft	BMS Cond State 3: 300 sqft	
Next Paint Year: 2021	2011-13 Rank: 69	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$5,625,000

Past Paint History

Years	Cycle
1986	11
1975	15
1960	25
1935	

Painting Cycle



■ = Current Paint Age



The bridge deck is orthotropic. The bottom side of the deck needs to be painted when the bridge is painted. The deck joints may need to be rehabilitated.

The next paint project will likely require full removal of the paint.

Inspection Notes:

TRUSS BOTTOM CHORD - Very light surface rust with minor areas of peeling paint. A few scattered rust blooms. There is some pack rust at the bottom chord/gusset plate connections at a few scattered locations with some minor section loss.

Steel Bridge Paint Form

2011-13 Biennium Priorities

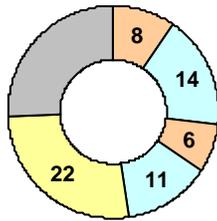


Bridge Number: 207 / 4		Bridge Name: WENATCHEE RIVER		Milepost: 4.22	Region: North Central
Year Built 1940	Bridge Type: ST CTB	Steel Span Length: 160 ft.	Width (curb-curb): 24 ft.	Steel Tonnage: 145	
Paint Age: 22	Paint Color: Evergreen	34097	Steel Surf. Area: 21,750 sqft	BMS Cond State 2: 5,000 sqft	BMS Cond State 3: 1,000 sqft
Next Paint Year: 2015	2011-13 Rank: 20	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$1,015,000

Past Paint History

Years	Cycle
1988	11
1977	6
1971	14
1957	8
1949	

Painting Cycle



■ = Current Paint Age



Bridge Inspection Notes:

Areas of peeling paint and blistered paint on steel stringers. Rust blooms and peeling paint scattered throughout top of truss and upper lateral brace members. STEEL TRUSS - Some rust pitting of panel point gusset plates. Heavy amounts of gravel and sand on the top of and inside of the bottom chord and lower panel point gusset plates. STEEL FLOOR BEAMS - Minor rust in top flanges at deck interface, due to leaking joints above.

Next Paint Project:

Remove all the existing paint and add a new zinc primer and moisture cured urethane.

Steel Bridge Paint Form

2011-13 Biennium Priorities

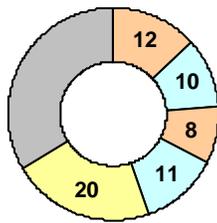


Bridge Number: 285 / 10		Bridge Name: SEN. GEORGE SELLAR BR.		Milepost: 0.25	Region: North Central
Year Built 1950	Bridge Type: SA CTB		Steel Span Length: 928 ft.	Width (curb-curb): 54 ft.	Steel Tonnage: 2,280
Paint Age: 20	Paint Color: 30318 Warm Conc Gray	Steel Surf. Area: 342,000 sqft	BMS Cond State 2: 120,000 sqft	BMS Cond State 3: 300 sqft	
Next Paint Year: 2019	2011-13 Rank: 47	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$8,550,000

Past Paint History

Years	Cycle
1990	11
1979	8
1971	10
1961	12
1949	12

Painting Cycle



■ = Current Paint Age



Inspection Notes:

There are areas of peeling paint to the primer on all the truss and arch members, especially the bottom surfaces of most diagonals and horizontal members, and the bottom flanges and webs of the stringers and floorbeams. Any paint that is not peeling is slightly chalky. There is seam rust in some areas of the truss, arch and floorbeams. The metal pedestrian railing has a moderate amount of peeling paint.

P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Priority Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
336	2/228N	WENATCHEE R	107.03	North Central	\$218,515	\$393,327
337	2/228S	WENATCHEE R	107.03	North Central	\$235,032	\$423,057
338	28/12	DOUGLAS CR	15.78	North Central	\$157,058	\$282,704
343	97/508	METHOW R	253.49	North Central	\$445,330	\$801,593
344	2/233A	WENATCHEE R DIVISION ST	111.09	North Central	\$83,908	\$151,034
354	20/609	EARLY WINTERS CR	175.98	North Central	\$110,231	\$198,416
469	2/126	TYE RIVER 2ND X-ING	58.19	North Central	\$241,318	\$434,372
470	2/127	TYE R 1ST CROSSING	58.77	North Central	\$220,270	\$396,485
488	2/130N	TUNNEL CREEK	60.31	North Central	\$229,323	\$412,781
Total Number of Bridges = 9				Total\$ =	\$1,940,983	\$3,493,769

P2 Bridge Preservation - Seismic Retrofit

2011-13 Bien Priority Array

(Sorted by Bridge Number)

11-13 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item\$'s	Total\$'s
469	2/126	TYE RIVER 2ND X-ING	58.19	North Central	\$241,318	\$434,372
470	2/127	TYE R 1ST CROSSING	58.77	North Central	\$220,270	\$396,485
488	2/130N	TUNNEL CREEK	60.31	North Central	\$229,323	\$412,781
336	2/228N	WENATCHEE R	107.03	North Central	\$218,515	\$393,327
337	2/228S	WENATCHEE R	107.03	North Central	\$235,032	\$423,057
344	2/233A	WENATCHEE R DIVISION ST	111.09	North Central	\$83,908	\$151,034
354	20/609	EARLY WINTERS CR	175.98	North Central	\$110,231	\$198,416
338	28/12	DOUGLAS CR	15.78	North Central	\$157,058	\$282,704
343	97/508	METHOW R	253.49	North Central	\$445,330	\$801,593
Total Number of Bridges = 9				Total\$ =	\$1,940,983	\$3,493,769

Bridge Preservation (P2) – Bridge Scour Program
North Central Region - 2011-13 Bien.

There are no bridges in the North Central Region that have been prioritized or funded for scour repair in the 2011-13 bien.