

Communicating with Dashboards

Rebecca Curtis, PE
Michigan Department of Transportation
Bridge Management Engineer

2014 Bridge Management User Group Meeting

Communicating with Dashboards

- A brief overview of Dashboards in Michigan
- Questions/Topics for Open Discussion
 - What types of dashboards do you use currently?
 - Who are the current and potential users of your dashboards?
 - What are the needs of the various users? What dashboards would they like to see?
 - What are the key components of a dashboard?



Open Michigan

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Measuring Michigan's Performance

Michigan's dashboards were implemented by [Governor Rick Snyder](#) to provide a quick assessment of the state's performance in key areas including: economic strength; health and education; value for money government; quality of life; and public safety. To view the dashboards click below.

Infrastructure Dashboard

This information highlights the state of transportation in Michigan and the condition of our infrastructure and compares Michigan with other states when appropriate.

[More](#)

◀ [Progress indicator]



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Michigan Dashboard

Economic Strength

Health & Education

Value for Money Government

Quality of Life

Public Safety

Education Dashboard

Health & Wellness Dashboard

Infrastructure Dashboard

Talent Dashboard

Public Safety Dashboard

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Measuring Michigan's Performance

Performance Key:

- 👍 Performance improving
- = Performance staying about the same
- 👎 Performance declining

Click on the links in the table below for more detail.

Economic Strength				
	Prior	Current	Progress	
Monthly unemployment rate*	9.0% (July 2013)	7.7% (July 2014)	👍	
Real Gross Domestic Product (GDP)	1.5% (2012)	2.0% (2013)	👍	
Percent of structurally deficient bridges	12.31% (2012)	11.78% (2013)	👍	
Real personal income per capita	\$28,350 (2011)	\$28,719 (2012)	👍	
Children living in poverty	25% (2011)	25% (2012)	=	

Value for Money Government

	Prior	Current	Progress
Credit rating:			
- Moody's	Aa2 (Positive) (2013)	Aa2 (Positive) (2014)	=
- S & P	AA- (Positive) (2013)	AA- (Stable) (2014)	=
- Fitch	AA (Stable) (2013)	AA (Stable) (2014)	=
Government debt burden per capita	\$800 (2012)	\$785 (2013)	👍
State government operating cost as a percent of GDP	14.1% (2011)	12.9% (2012)	👍
State and local government operating cost as a percent of GDP	24.7% (2010)	23.3% (2011)	👍
Access to state government - number of online services**	N/A	356 (2013)	N/A

Quality of Life

	Prior	Current	Progress
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Open Michigan

Michigan Dashboard

Economic Strength

Unemployment Rate

Real GDP

Deficient Bridges

Per Capita Income

Children in Poverty

Health & Education

Value for Money Government

Quality of Life

Public Safety

Education Dashboard

Health & Wellness Dashboard

Infrastructure Dashboard

Talent Dashboard

Public Safety Dashboard

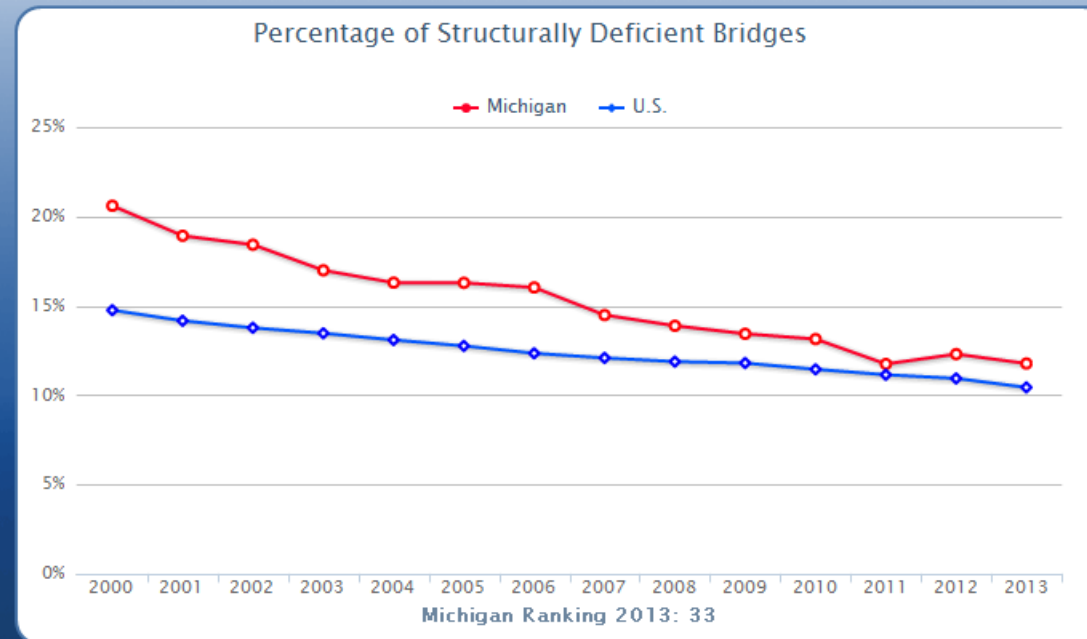
Energy & Environment Dashboard

print friendly



Percentage of Structurally Deficient Bridges

Why it Matters: Transportation and distribution of commercial and industrial goods and materials require sound bridges and well-maintained roads. A highway bridge is classified as structurally deficient if the deck, superstructure, substructure or culvert is rated in "poor" condition. A bridge can also be classified as structurally deficient if its load-carrying capacity is significantly below current design standards or if a waterway below frequently overtops the bridge during floods. Repairs for bridges rated as structurally deficient are normally eligible for federal bridge funds. A bridge rated as structurally deficient does not mean it is unsafe. This is a measure of the percent of all bridges in Michigan that are classified as deficient for all categories of bridges and all categories of deficiency.



Source: U.S. Department of Transportation, Federal Highway Administration
Updated annually in February



Dashboards

Summary

Pavement

Pavement Comparison

Bridge

Bridge Comparison

Traffic

Safety

Maintenance

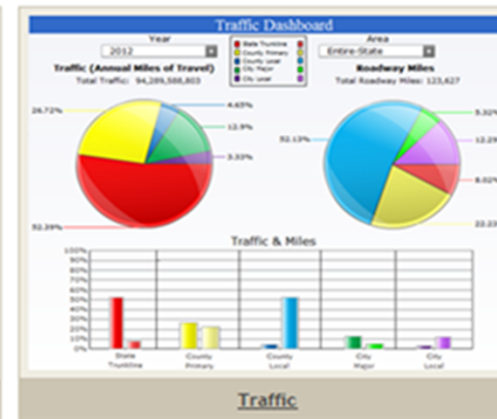
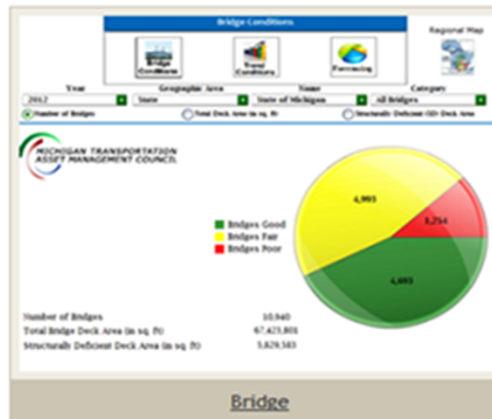
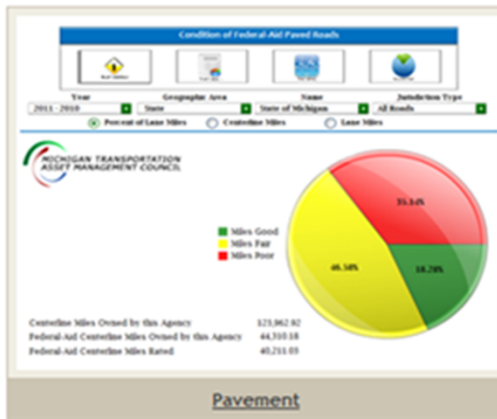
Finance

TAMC Dashboard Home

The gauges below show the condition, operation, and investment in Michigan's public road system. Pavement condition information is based on paved surface ratings for state highways as well as roads under the jurisdiction of Michigan's counties, cities and villages. Statewide there are over 10,000 public road bridges. Bridge conditions are based on bi-annual inspections of state, county, city and village owned bridges. The number of traffic accidents is a measure of how effectively the road system is performing. Maintenance is required to keep roads and bridges performing as intended. These activities include: snow removal, patching, grading, and mowing. Capital investments are necessary to extend the useful life of any asset including roads and bridges. The financial pie charts illustrate how investments in the road and bridge system are made.

Tabs at the top of this page lead to performance measures based on asset ownership and geography.

Click [here](#) for a Dashboard preview trifold that includes printing options to use dashboards in your own presentation.



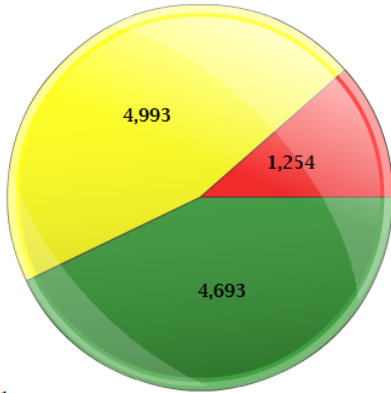
Bridge Conditions

Regional Map

Bridge Conditions | Trend Conditions | Forecasting

Year: 2012 | Geographic Area: State | Name: State of Michigan | Category: All Bridges

Number of Bridges | Total Deck Area (in sq. ft) | Structurally Deficient (SD) Deck Area



Number of Bridges: 10,940
 Total Bridge Deck Area (in sq. ft): 67,423,801
 Structurally Deficient Deck Area (in sq. ft): 5,829,583



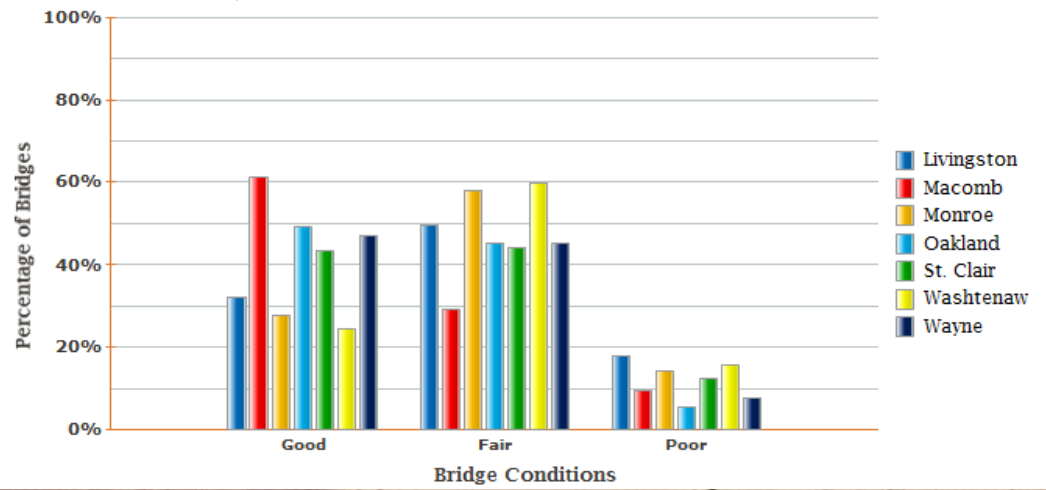
Multi-Jurisdiction "Bridge Condition" Comparison Tool

Choose Area & Jurisdictions

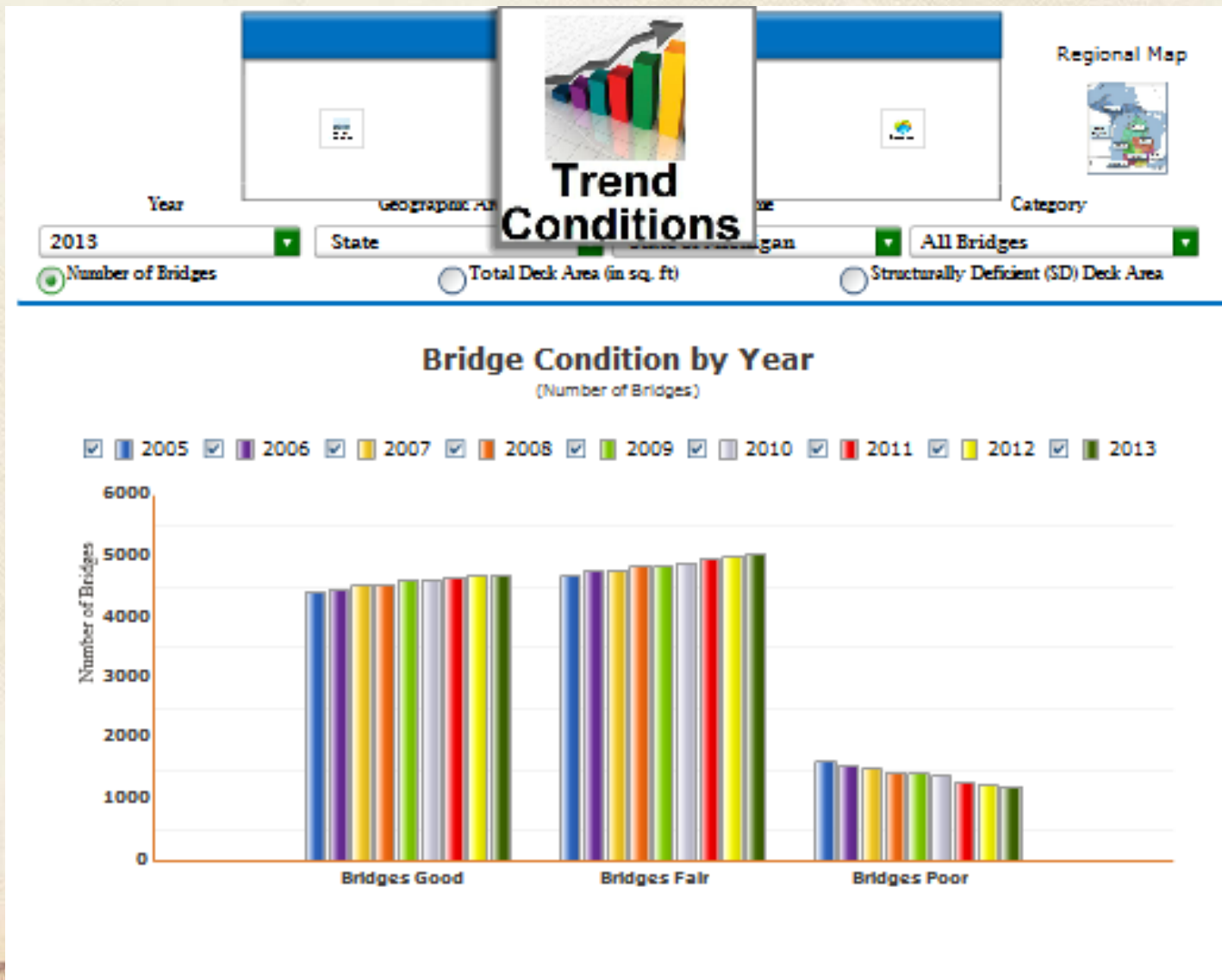
Regional Map

Percentage of Bridges | Total Deck Area (in sq. ft) | Structurally Deficient (SD) Deck Area

All Bridges



TAMC



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Street Aerial Hybrid

Layers

Toggle layer visibility by clicking the corresponding checkboxes.

- PASER - Road Condition
- HPAS Sample Segments
- Bridge Condition
- TAMC Regions
- 2013 PASER Collection Status
- Traffic - NTPA
- Traffic - AADT
- Traffic - CADT

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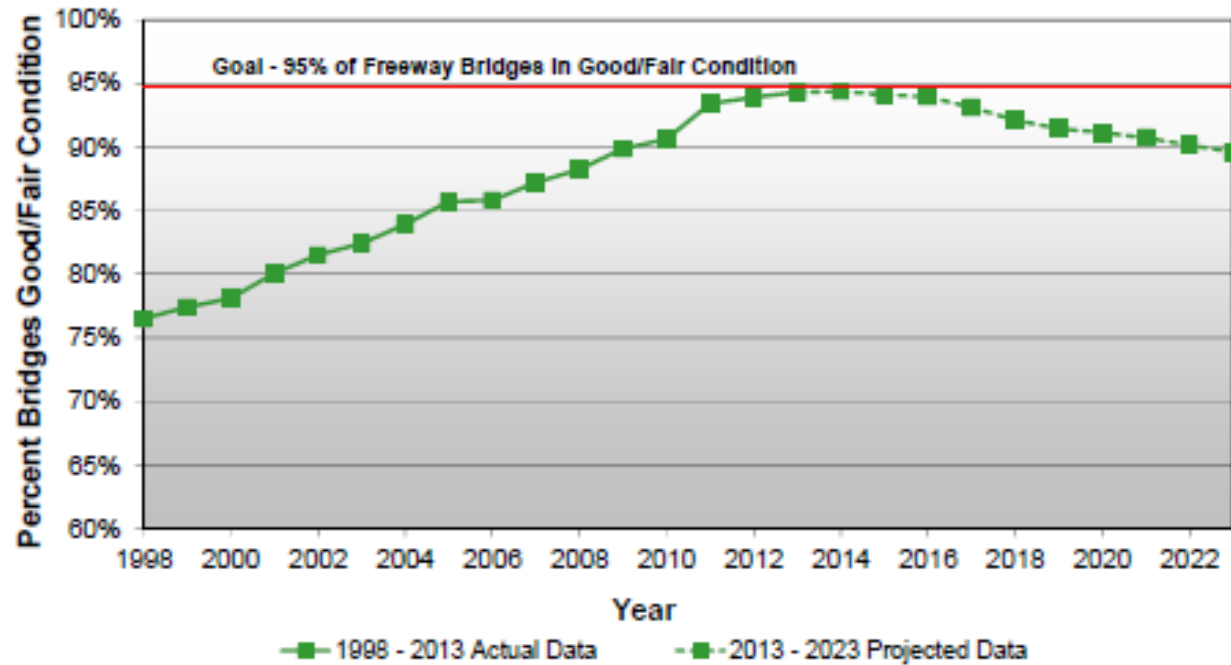
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Bridges (Freeway) Condition Details

In 1998, our freeway bridge condition was 76.5%. Our condition as of July 30th, 2013 is 94.3%. We continue to make steady progress toward the goal of 95% of our freeway bridges in good or fair condition.

Trend projections are updated annually.

Statewide Freeway Bridge Condition





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Load Rating Dashboard

Network Summary

Critical Structures

Good/Fair/Poor/Unrated Structures

Deficient Structures (SD/FO)

Item 41 - Operational Status

HBP Eligible Structures

Scour Critical Structures

Network Elements

Work Recommendations

Call For Projects (CFP)

Ad-Hoc Report

False Decking

Jurisdiction MDOT Statewide

Structure Inventory Summary

Total No. of Structures	5,850
Highway (NBI) Structures greater than 20'	4,441
Highway Structures less than 20'	1,087
Rail Road Structures (X)	125
Pedestrian Structures (P)	181
Other Non-Highway Structures (V, Plaza)	16

Additional Bridge Inventory Information

Posted Structures	18
Closed Structures	21
Fracture Critical Structures	76
Scour Critical Structures	422
Scheduled/Under Construction (S, G)	78

Structure Condition Summary

Good/Fair (5 or Greater)	5,457
Highway included in NBI	4,160
Non NBI Structures (<20, RR, Ped, etc.)	1,297
Poor (4)	321
Highway included in NBI	234
Non NBI Structures (<20, RR, Ped, etc.)	87
Serious/Critical (3 or less)	64
Highway included in NBI	42
Non NBI Structures (<20, RR, Ped, etc.)	22
Unrated Structures	8
Highway included in NBI	5
Non NBI Structures (<20, RR, Ped, etc.)	3

SD/FO Summary

*Structurally Deficient	277
*Functionally Obsolete	922
*Non-Deficient Structures	3,242
*No Current SD/FO Rating	443
NBI Condition - Goals Summary	Pct.
*Good/Fair (5 or Greater)	93.8%
Freeway	93.7%
Non-Freeway	93.9%
*Poor/Serious/Critical (4 or Less)	6.2%
Freeway	6.3%
Non-Freeway	6.1%

*Applies ONLY to Highway Structures > 20'

Structure Inventory Summary

Open

Select	Struct. Nbr. ▲	Bridge ID	Facility Carried	Features Intersected	Region	NBI	Fwy	Insp. Date	Fract Crit	Scour Crit	Deck Rtg	Surf Rtg	Deck Botm Rtg	Super Str Rtg	Sub-Str Rtg	Culv. Rtg	SD FO	MDOT Suff Rtg
<input type="checkbox"/>	1	01101011000C010	M-65	BRYANT CREEK	North	N	N	06/11/2014	N	6	N	N	8	N	N	8		100
<input type="checkbox"/>	2	01101012000C010	M-65	MCGINN CREEK	North	N	N	06/18/2014	N	6	N	N	8	N	N	7		100
<input type="checkbox"/>	3	01101023000C010	M-72	BACKUS CREEK	North	N	N	06/02/2014	N	6	N	N	8	N	N	7		100
<input type="checkbox"/>	4	01101023000C020	M-72	E BR PINE RIVER	North	N	N	06/24/2014	N	6		N	N	N		6		100
<input type="checkbox"/>	5	01101024000C010	M-72	VAN ETTEEN CREEK	North	N	N	06/24/2014	N	6		N	N	N		6		100
<input type="checkbox"/>	6	01101024000C020	M-72	EATON CREEK	North	N	N	06/24/2014	N	6		N	6	N		5		89
<input type="checkbox"/>	7	01101052000B010	US-23	BLACK RIVER	North	Y	N	06/04/2014	N	U	7	8	6	7	7	N		92.4
<input type="checkbox"/>	8	01101052000C010	US-23	MILL CREEK	North	N	N	06/02/2014	N	6	N	8	8	N	N	7		100
<input type="checkbox"/>	32	02102011000B010	US-41	W BR WHITEFISH	Superior	Y	N	05/13/2013	N	8	5	5	5	7	5	N		73.4
<input type="checkbox"/>	33	02102011000B020	US-41	W BR WHITEFISH	Superior	Y	N	05/13/2013	N	3	4	5	4	7	6	N	SD	89.4
<input type="checkbox"/>	34	02102011000B030	US-41	HUBER CREEK	Superior	Y	N	05/13/2013	N	8	7	7	N	8	7	N		87.8
<input type="checkbox"/>	35	02102021000B010	M-94	SLAPNECK CREEK	Superior	Y	N	05/15/2013	N	8	6	5	6	6	7	N		93.1
<input type="checkbox"/>	36	02102021000B020	M-94	AU TRAIN RIVER	Superior	Y	N	05/15/2013	N	8	6	7	6	6	6	N		73.9
<input type="checkbox"/>	37	02102021000C010	M-94	BOHEMIAN CREEK	Superior	N	N	05/15/2013	N	6	N		7	N	N	6		98.9
<input type="checkbox"/>	38	02102021000C020	M-94	AUTRAIN RIVER														

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Welcome Rebecca Curtis

Jurisdiction: All Regions - Super User

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Structure Inventory Summary	Count
Total No. of Structures	5,850
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Highway Structures less than 20'	1,087
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Other Non-Highway Structures (V, Plaza)	16
Additional Bridge Inventory Information	
Posted Structures	18

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Structure Condition Summary	Count
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Highway included in NBI	234
Non NBI Structures (<20, RR, Ped, etc.)	87
Serious/Critical (3 or less)	64
Highway included in NBI	42
RR, Ped, etc.)	22
	8
	5
RR, Ped, etc.)	3

SD/FO Summary

SD/FO Summary	Count
*Structurally Deficient	277
*Functionally Obsolete	922
*Non-Deficient Structures	3,242
*No Current SD/FO Rating	443
NBI Condition - Goals Summary	Pct.
*Good/Fair (5 or Greater)	93.8%
Freeway	93.7%
Non-Freeway	93.9%
*Poor/Serious/Critical (4 or Less)	6.2%
Freeway	6.3%
Non-Freeway	6.1%

*Applies ONLY to Highway Structures > 20'

Structure Condition Summary**Count**

Good/Fair (5 or Greater)	5,765
Highway included in NBI	5,515
Non NBI Structures (<20, RR, Ped, etc.)	250
Poor (4)	601
Highway included in NBI	541
Non NBI Structures (<20, RR, Ped, etc.)	60
Serious/Critical (3 or less)	502
Highway included in NBI	437
Non NBI Structures (<20, RR, Ped, etc.)	65

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Navigation: |< < 1 2 3 4 5 6 7 8 9 10 > >| Total number of pages: 60 Enter Page #:

Inspection Date	Fract Crit	Scour Crit	Deck Rtg	Surf Rtg	Deck Botm Rtg	Super Str Rtg	Sub-Str Rtg	Culv. Rtg	SD FO	MDOT Suff Rtg
06/11/2014	N	6	N	N	8	N	N	8		100
06/18/2014	N	6	N	N	8	N	N	7		100
06/02/2014	N	6	N	N	8	N	N	7		100
06/24/2014	N	6		N	N	N		6		100
06/24/2014	N	6		N	N	N		6		100
06/24/2014	N	6		N	6	N		5		89
06/04/2014	N	U	7	8	6	7	7	N		92.4
06/02/2014	N	6	N	8	8	N	N	7		100
05/13/2013	N	8	5	5	5	7	5	N		73.4
05/13/2013	N	3	4	5	4	7	6	N	SD	89.4
05/13/2013	N	8	7	7	N	8	7	N		87.8
05/15/2013	N	8	6	5	6	6	7	N		93.1
05/15/2013	N	8	6	7	6	6	6	N		73.9
05/15/2013	N	6	N		7	N	N	6		98.9



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Additional Bridge Inventory Information

Posted Structures	18
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Scour Critical Structures	422
Scheduled/Under Construction (S, G)	78

Structure Condition

Good/Fair (5 or 6)	Highway include
Poor (4)	Highway include
Serious/Critical	Highway include
Unrated Structure	Highway include in NBI
	Non NBI Structures (<20 RR Ped etc.)

SD/FO Summary***Structurally Deficient*****Functionally Obsolete*****Non-Deficient Structures**

Count

1,020

649

4,836

Structure Inventory Summary

Open

Select	Struct. Nbr. ▲	Bridge ID	Facility Carried	Features Intersected	Region
<input type="checkbox"/>	1	01101011000C010	M-65	BRYANT CREEK	North
<input type="checkbox"/>	2	01101012000C010	M-65	MCGINN CREEK	North
<input type="checkbox"/>	3	01101023000C010	M-72	BACKUS CREEK	North
<input type="checkbox"/>	4	01101023000C020	M-72	E BR PINE RIVER	North
<input type="checkbox"/>	5	01101024000C010	M-72	VAN ETTEN CREEK	North
<input type="checkbox"/>	6	01101024000C020	M-72	EATON CREEK	North
<input type="checkbox"/>	7	01101052000B010	US-23	BLACK RIVER	North
<input type="checkbox"/>	8	01101052000C010	US-23	MILL CREEK	North
<input type="checkbox"/>	32	02102011000B010	US-41	W BR WHITEFISH	Superior
<input type="checkbox"/>	33	02102011000B020	US-41	W BR WHITEFISH	Superior
<input type="checkbox"/>	34	02102011000B030	US-41	HUBER CREEK	Superior
<input type="checkbox"/>	35	02102021000B010	M-94	SLAPNECK CREEK	Superior
<input type="checkbox"/>	36	02102021000B020	M-94	AU TRAIN RIVER	Superior
<input type="checkbox"/>	37	02102021000C010	M-94	BOHEMIAN CREEK	Superior
<input type="checkbox"/>	38	02102021000C020	M-94	AUTRAIN RIVER	Superior

[Export Data to EXCEL](#)

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Jurisdiction: LA Statewide **Structure Inventory Summary****Total No. of Structures****Highway (NBI) Structures greater than 20'****Highway Structures less than 20'****Rail Road Structures (X)****Pedestrian Structures (P)****Other Non-Highway Structures (V, Plaza)**

Count

6,890

6,505

63

252

63

7

Additional Bridge Inventory Information**Posted Structures****Closed Structures****Fracture Critical Structures****Scour Critical Structures****Scheduled/Under Construction (S, G)**

1,071

43

78

1,332

48





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Jurisdiction: All Regions - Super User

Structure Condition Summary	Count	SD/FO Summary	Count
Good/Fair (5 or Greater)	5,457	*Structurally Deficient	277
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Highway included in NBI	234		
Non NBI Structures (<20, RR, Ped, etc.)	87	NBI Condition - Goals Summary	Pct.
Serious/Critical (3 or less)	64	*Good/Fair (5 or Greater)	93.8%
Highway included in NBI	42	Freeway	93.7%
Non NBI Structures (<20, RR, Ped, etc.)	22	Non-Freeway	93.9%
Unrated Structures	8	*Poor/Serious/Critical (4 or Less)	6.2%
Highway included in NBI	5	Freeway	6.3%
Non NBI Structures (<20, RR, Ped, etc.)	3	Non-Freeway	6.1%
		*Applies ONLY to Highway Structures > 20'	

Structure	Region	NBI	Fwy	Insp. Date	Fract Crit	Scour Crit	Deck Rtg	Surf Rtg	Deck Botm Rtg	Super Str Rtg	Sub-Str Rtg	Culv. Rtg	SD FO	MDOT Suff Rtg	ft
CREEK	North	N	N	06/11/2014	N	6	N	N	8	N	N	8		100	^
CREEK	North	N	N	06/18/2014	N	6	N	N	8	N	N	7		100	
CREEK	North	N	N	06/02/2014	N	6	N	N	8	N	N	7		100	
RIVER	North	N	N	06/24/2014	N	6		N	N	N		6		100	
IN CREEK	North	N	N	06/24/2014	N	6		N	N	N		6		100	
REEK	North	N	N	06/24/2014	N	6		N	6	N		5		89	
VER	North	Y	N	06/04/2014	N	U	7	8	6	7	7	N		92.4	
EK	North	N	N	06/02/2014	N	6	N	8	8	N	N	7		100	
ITEFISH	Superior	Y	N	05/13/2013	N	8	5	5	5	7	5	N		73.4	
ITEFISH	Superior	Y	N	05/13/2013	N	3	4	5	4	7	6	N	SD	89.4	
REEK	Superior	Y	N	05/13/2013	N	8	7	7	N	8	7	N		87.8	
K CREEK	Superior	Y	N	05/15/2013	N	8	6	5	6	6	7	N		93.1	
RIVER	Superior	Y	N	05/15/2013	N	8	6	7	6	6	6	N		73.9	
N CREEK	Superior	N	N	05/15/2013	N	6	N		7	N	N	6		98.9	v
RIVER															

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Jurisdiction MDOT Statewide

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Highway Structures less than 20'	Count	1,087
Rail Road Structures (X)	Count	125
Pedestrian Structures (P)	Count	181
Other Non-Highway Structures (V, Plaza)	Count	16

Additional Bridge Inventory Information

Posted Structures	Count	18
Closed Structures	Count	21
Fracture Critical Structures	Count	76
Scour Critical Structures	Count	422
Scheduled/Under Construction (S, G)	Count	78

Structure Condition Summary

Good/Fair (5 or Greater)	Count	5,457
Highway included in NBI	Count	4,160
Non NBI Structures (<20, RR, Ped, etc.)	Count	1,297
Poor (4)	Count	321
Highway included in NBI	Count	234
Non NBI Structures (<20, RR, Ped, etc.)	Count	87
Serious/Critical (3 or less)	Count	64
Highway included in NBI	Count	42
Non NBI Structures (<20, RR, Ped, etc.)	Count	22
Unrated Structures	Count	8
Highway included in NBI	Count	5
Non NBI Structures (<20, RR, Ped, etc.)	Count	3

SD/FO Summary

*Structurally Deficient	Count	277
*Functionally Obsolete	Count	922
*Non-Deficient Structures	Count	3,242
*No Current SD/FO Rating	Count	443
NBI Condition - Goals Summary		
*Good/Fair (5 or Greater)	Pct.	93.8%
Freeway	Pct.	93.7%
Non-Freeway	Pct.	93.9%
*Poor/Serious/Critical (4 or Less)	Pct.	6.2%
Freeway	Pct.	6.3%
Non-Freeway	Pct.	6.1%
*Applies ONLY to Highway Structures > 20'		

Structure Inventory Summary

Open


Select	Struct. Nbr. ▲	Bridge ID	Facility Carried	Features Intersected	Region	NBI	Fwy	Insp. Date	Fract Crit	Scour Crit	Deck Rtg	Surf Rtg	Deck Botm Rtg	Super Str Rtg	Sub-Str Rtg	Culv. Rtg	SD FO	MDOT Suff Rtg	ft
<input type="checkbox"/>	1	01101011000C010	M-65	BRYANT CREEK	North	N	N	06/11/2014	N	6	N	N	8	N	N	8		100	▲
<input type="checkbox"/>	2	01101012000C010	M-65	MCGINN CREEK	North	N	N	06/18/2014	N	6	N	N	8	N	N	7		100	▲
<input type="checkbox"/>	3	01101023000C010	M-72	BACKUS CREEK	North	N	N	06/02/2014	N	6	N	N	8	N	N	7		100	▲
<input type="checkbox"/>	4	01101023000C020	M-72	E BR PINE RIVER	North	N	N	06/24/2014	N	6	N	N	8	N	N	6		100	▲
<input type="checkbox"/>	5	01101024000C010	M-72	VAN ETTEN CREEK	North	N	N	06/24/2014	N	6	N	N	8	N	N	6		100	▲
<input type="checkbox"/>	6	01101024000C020	M-72	EATON CREEK	North	N	N	06/24/2014	N	6	N	N	8	N	N	5		89	▲
<input type="checkbox"/>	7	01101052000B010	US-23	BLACK RIVER	North	Y	N	06/04/2014	N	U	7	8	6	7	7	N		92.4	▲
<input type="checkbox"/>	8	01101052000C010	US-23	MILL CREEK	North	N	N	06/02/2014	N	6	N	8	8	N	N	7		100	▲
<input type="checkbox"/>	32	02102011000B010	US-41	W BR WHITEFISH	Superior	Y	N	05/13/2013	N	8	5	5	5	7	5	N		73.4	▲
<input type="checkbox"/>	33	02102011000B020	US-41	W BR WHITEFISH	Superior	Y	N	05/13/2013	N	3	4	5	4	7	6	N	SD	89.4	▲
<input type="checkbox"/>	34	02102011000B030	US-41	HUBER CREEK	Superior	Y	N	05/13/2013	N	8	7	7	N	8	7	N		87.8	▲
<input type="checkbox"/>	35	02102021000B010	M-94	SLAPNECK CREEK	Superior	Y	N	05/15/2013	N	8	6	5	6	6	7	N		93.1	▲
<input type="checkbox"/>	36	02102021000B020	M-94	AU TRAIN RIVER	Superior	Y	N	05/15/2013	N	8	6	7	6	6	6	N		73.9	▲
<input type="checkbox"/>	37	02102021000C010	M-94	BOHEMIAN CREEK	Superior	N	N	05/15/2013	N	6	N		7	N	N	6		98.9	▲
<input type="checkbox"/>	38	02102021000C020	M-94	AUTRAIN RIVER	Superior	N	N	05/15/2013	N	6	N		7	N	N	6		98.9	▲


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MiBridge

STR 32
Information Summary and Current Status
B01-02011



Facility	US-41	Latitude / Longitude	46.184715 / -86.978842
Feature	W BR WHITEFISH RIVER	Length / Width	59.71 / 38.39
Location	1.5 MI SW OF TRENARY	Built / Recon. / Paint / Ovly.	1936 / / 1990 / 1987
Region / County	Superior(1) / Alger(2)	Material / Design	3 Steel / 02 Stringer/Girder
		MDOT Structure ID	02102011000B010
		Owner	Region: Superior(1)
		TSC	Escanaba(1C)
		Last NBI Inspection	05/13/2013 / NOJF
		Structure Condition	Fair Condition(5) 
		Operational Status	A Open, no restriction(A)
		Scour Evaluation	8 Stable Above Footing

Inventory & Appraisal
Inspections / Reports
Load Ratings
Work Recommendations
Work History
Documents

Special Inspections Required: Fracture Critical (92A) Underwater (92B) Other Special (92C) Fatigue Sensitive (92D) Scour Critical

Inspection Data: (select from folders below) Print Print All

- Routine - BSIR
- Element
- Fracture Critical
- Fatigue Sensitive
- Underwater
- Other Special
- Damage
- Scour Action Plan

NBI INSPECTION

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
	MDOT INSPECTOR	24	05/13/2013

GENERAL NOTES

JD, PW. Clear and sunny, 40 degrees.

DECK

Item	Rating	Comments
1. Surface (SIA-58A)	5 FAIR CONDITION	Random crks throughout, partly sealed with epoxy. More cracking in NB lane (longit and trans). Mostly trans in SB lane. Both ends have been repaired. Approx 180 sft of repairs on S and 60 sft of repairs on N. Few areas of delam remain, approx 5 sft near CL @ N, 2 sft @ S, and 4 sft on W shldr near midspan. Starting to delaminate along ends.
2. Expansion Joints		
3. Other Joints	4 POOR CONDITION	Spalling along both end jts, some HPR but mostly unsealed. AMZ added to both end jts.
4. Railings	6 FAIR CONDITION	Conc barriers. Both have several vert leaching crks, some wide & starting to spall. Some leaching map cracking on west. Sealant along base of railings.

Questions/Topics for Open Discussion

- What types of dashboards do you use currently?
- Who are the current and potential users of your dashboards?
- What are the needs of the various users? What dashboards would they like to see?
- What are the key components of a dashboard? What priority would you give to the components you have listed?

