

## **Bureau Strategic Objectives**











Reduction in the number of MDOT SCOUR critical bridges, through the use of new technology, mitigation techniques, and

managing the risk profile on an individual project basis...



Improve initial bridge and structure design, fabrication and construction quality on all projects, while focusing on constructability and lifecycle durability and resiliency.

Overall **structural** expertise proficiency in the bridge design and construction areas,

along with knowledge management, leadership development, and an overall broad perspective of "bridge birth".

Improve quality of Local **Agency Bridge** Inspections, Load Ratings, and overall Bridge Management. Improve overall network condition – Bridge Bundling

Reduction in the number of open Bridge Requests for Action (RFA), and

annual utilization of the Bridge Priority Preservation Funding (BPPF) template in achievement of condition goals.

## **Code of Federal Regulations:**

§ 650.307 Bridge inspection organization.

- (a) Each State transportation department must inspect, or cause to be inspected, all highway bridges located on public roads that are fully or partially located within the State's boundaries, except for bridges that are owned by Federal agencies.
- (c) Each State transportation department or Federal agency must include a bridge inspection organization that is responsible for the following:
  - (1) Statewide or Federal agency-wide bridge inspection policies and procedures, quality assurance and quality control, and preparation and maintenance of a bridge inventory.
  - (2)Bridge inspections, reports, load ratings and other requirements of these standards.

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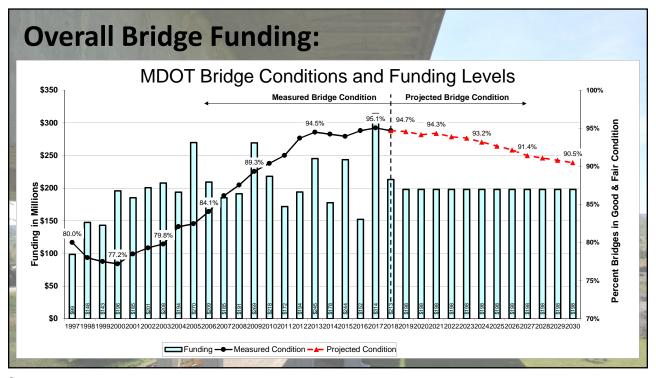
## **Code of Federal Regulations:**

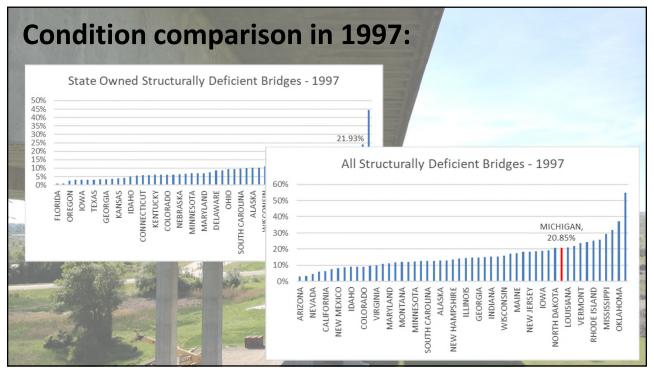
§ 650.315 Inventory.

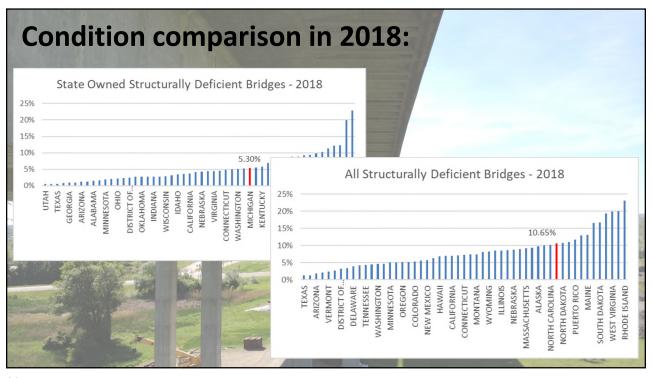
(a) Each State or Federal agency must prepare and maintain an inventory of all bridges subject to the NBIS. Certain Structure Inventory and Appraisal (SI&A) data must be collected and retained by the State or Federal agency for collection by the FHWA as requested. A tabulation of this data is contained in the SI&A sheet distributed by the FHWA as part of the "Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges," (December 1995) together with subsequent interim changes or the most recent version. Report the data using FHWA established procedures as outlined in the "Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges."

		NHS BRIDGES ONLY					
	Count	Area	ADT	Count		Area	ADT
Local	6,633	18,229,259	17,305,522		226	2,469,926	4,780,655
MDOT	4,493	51,124,958	76,559,972		2,737	34,947,511	64,174,556
TOTAL	11,126	69,354,217	93,865,494		2,963	37,417,437	CO OFF 311
	375	03,03 1,217	33,003,434		2,903	37,417,437	68,955,21.
2000	TTT III	05,05 1,227	95,603,434 MDOT		Local Ag		68,955,211
	Total	Bridge Count		40.4%			68,955,211
	CONTRACTOR OF THE PARTY OF THE	The state of the s				gency	68,955,211
	Total	Bridge Count		40.4%		gency 59.6%	68,955,211
	Total Total	Bridge Count Bridge Area		40.4% 73.7%		gency 59.6% 26.3%	68,955,211
	Total Total NHS E	Bridge Count Bridge Area Bridge ADT		40.4% 73,7% 81.6%		59.6% 26.3% 18.4%	68,955,211

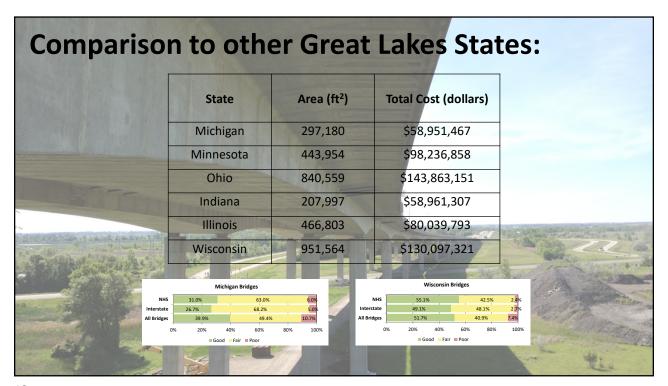
National Bridge	Ancillary Structure Asset	Quantity	Unit	Replacement Cost	Total
Inventory:	Sign Cantilever	815	each	\$125,000	\$101,875,000
	Communication Tower	22	each	\$1,255,000	\$27,610,000
• MDOT bridges = \$21	Dynamic Message Sign (DMS) Support Structure	264	each	\$85,000	\$22,440,000
<ul><li>billion</li><li>Bridge Authorities =</li></ul>	Environmental Sensor Station (ESS) Lattice Tower	86	each	\$25,000	\$2,150,000
\$1.2 billion	Lighting Tower	79	each	\$20,000	\$1,580,000
	Noise Barrier Wall	347,533	ft	\$1,000	\$347,533,000
• Local Agency bridges =	Retaining Wall	188,035	ft	\$10,000	\$1,880,350,000
\$14.1 billion	Spun Concrete Pole	270	each	\$55,000	\$14,850,000
• Total = \$36.3 billion	Steel Strain Pole	377	each	\$10,000	\$3,770,000
	Sign Tri-chord Truss	511	each	\$200,000	\$102,200,000
Michigan bridge asset	Culverts less than 10'	51,000	each	\$50,000	\$2,550,000,000

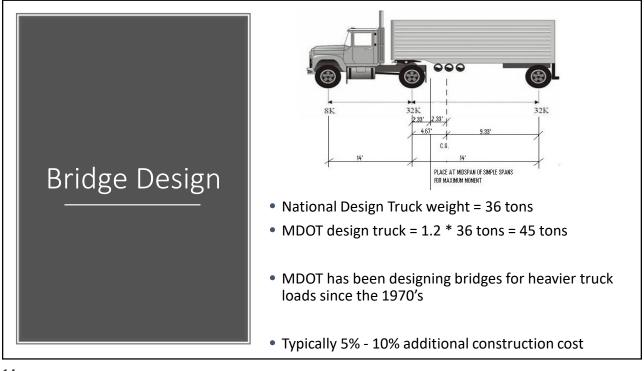






Strategic	Invest	tments:			
	Bridge Condit	ions - MDOT Bridges - Po	ercent Good/Fair/Poor		
	Year	Good	Fair	Poor	
	2004	26.46%	56.90%	16.64%	
	2005	26.49%	56.89%	16.62%	
	2006	26.92%	57.80%	15.28%	
	2007	27.71%	59.05%	13.25%	
	2008	29.90%	58.43%	11.66%	
	2009	30.91%	58.78%	10.30%	
	2010	31.99%	58.74%	9.26%	
CONTRACT LAND LAND	2011	32.21%	59.67%	8.13%	1
A COLOR OF LINE SE	2012	33.57%	60.39%	6.04%	5
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	2013	34.41%	60.24%	5.35%	4
	2014	33.57%	60.79%	5.65%	200
	2015	33.83%	60.23%	5.94%	のと
	2016	33.61%	61.35%	5.04%	
	2017	32.19%	62.87%	4.94%	E.
1411	2018	27.85%	66.73%	5.43%	The same of
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## Bridge Construction

- Accelerated Bridge Construction Projects
- Complex Bridge Construction Projects

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