

Minnesota Statewide Freight System Plan

Performance Measures Working Group

U.S. DOT Measures <i>(Recommended)</i>	MnDOT Measures <i>(Annual Transportation Performance Report 2012 - select sections)</i>	Should this be a freight-related measure?	Should be measured...			Data Availability <i>(Assignment)</i>
			Statewide?	On "Freight Network"?	On Select Corridors or Urban Areas?	
Freight						
Annual Hours of Truck Delay (AHTD)		Y	Y	Y	Y	As MnDOT doesn't currently track these, assess what data is available to begin measuring. Alternate source could be the NPRMDS.
Truck Reliability Index (RI80)		Y	Y	Y	Y	
	Total domestic shipments to, from or between Minnesota locations (excludes international shipments and "through" shipments) -Value (in billions of 2007 dollars) -Ton miles (in billions)	Y	Y			
	Freight Mode Share in Minnesota (by value); 2002-2011	Y	Y			
	Freight Mode Share in Minnesota (by ton miles); 2002-2011	Y	Y			
	Heavy Commercial Vehicle Miles Traveled (HCVMT) on the Minnesota State Highway System (in billions)	Y	Y			
	Heavy Commercial Average Annual Daily Traffic (HCAADT) by Corridor	Y		Y	Y	
	Annual Rail Shipments in Minnesota (in millions of tons)	Y	Y			
	Annual Container Lifts in Twin Cities intermodal yards (in thousands)	Y	Y			
	Annual Port Shipment Tonnage (in millions of tons)	Y	Y			
Safety						
Number of Fatalities	Total number of fatalities resulting from crashes involving a motor vehicle	Y	Y	Y		Talk with Brad in safety about ways to parse out truck information as part of these required measures
Fatality Rate	Traffic fatality rate on all Minnesota roads (per 100 million VMT)	Y	Y	Y		
Number of Serious Injuries	Serious traffic injuries on all Minnesota roads	Y	Y	Y		
Serious Injury Rate		Y	Y	Y		
	Severe crashes by focus area; 10-year change (2003 - 2012)	N				
	Severe crashes involving motor vehicles and pedestrians	N				
	Severe crashes involving motor vehicles and bicyclists	N				
	Aviation Incidents	N				
	Incidents at railroad / highway crossings	Y				
	Highway Safety Improvement Program Funding (millions of \$)	N				
	Severe crashes involving trucks	Y	Y	Y		

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<i>Pavement Condition</i>						
Interstate Pavement in Good, Fair and Poor Condition based on the International Roughness Index (IRI)		Y	Y	Y		As MnDOT doesn't currently track these, assess what data is available to begin measuring. Should we opt for the pavement condition measures MnDOT does track?
Non-Interstate NHS Pavement in Good, Fair and Poor Condition based on the International Roughness Index (IRI)		Y	Y	Y		
Pavement Structural Health Index		Y	Y	Y		
	Percent of Interstate System with "Poor" ride quality	N				
	Percent of the Non-Interstate NHS with "Poor" ride quality	N				
	Percent of state highway system with "Poor" ride quality	N				
	Percent of state highway system with "Good" ride quality	N				
	MnDOT's annual spending on pavement preservation; FY 2007 - 2016 (\$ millions)	N				
	Customer Satisfaction with Road Maintenance (average on a 1-10 scale)	N				
<i>Bridge Condition</i>						
Percent of Deck Area on Structurally Deficient Bridges		Y	Y	Y		
NHS Bridges in Good, Fair and Poor Condition based on Deck Area	NHS bridges in "Poor" condition as a percent of total NHS bridge deck area	Y	Y	Y		
	Percent of NHS deck area on bridges in Fair or Poor condition	N				
	Percent of NHS deck area on bridges in Good or Satisfactory condition	N				
	Percent of non-NHS deck area on bridges in Fair or Poor condition	N				
	MnDOT's annual bridge construction program; FY 2007 - 2016 (in \$ millions)	N				
	Bridge Safety Inspection - Percent completed on time	N				
	High-priority Reactive Bridge Maintenance - Percent completed on time	N				

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Data Availability <i>(Assignment)</i>					
System Performance					
Annual Hours of Delay (AHD)		N			
Reliability Index (RI80)		N			
	Percent of metro-area freeway miles below 45 mph in AM or PM peak <i>(Twin Cities Urban Freeway Congestion)</i>	N			
	Percent of system miles performing more than 2 mph below corridor-level speed targets <i>(Interregional Corridor Travel Speed)</i>	N			
	Frequency of achieving bare lanes within targeted number of hours <i>(Snow and Ice Control)</i>	N			
	MnPASS Express Lane Person Throughput, I-35W at Black Dog Road (Northbound)	N			
	Planned investment in Twin Cities Mobility; 2014-2023	N			
	Customer Satisfaction with Snow & Ice Removal (average rating on 1 - 10 scale)	N			
	Average Clearance Time for Twin Cities Urban Freeway Incidents (minutes, 3-yr average)	N			
	Snow and Ice Control Results by Roadway Category, 2012-13	N			
	MnDOT Statewide Snow and Ice Expenditures	N			
	MnDOT Statewide Salt and Sand Use (thousands of tons)	N			
Congestion Mitigation and Air Quality					
Criteria Pollutant Emissions		N			
Annual Hours of Delay (AHD) Reduced		N			
	Total gallons of fuel sold for transportation purposes (in billions)	N			
	Comparison of growth areas and emissions in Minnesota — percent change since 2003	N			
	Twin Cities Metropolitan Area air quality — percent of national standard	N			
	Vehicle Miles Traveled in Minnesota; 2003-2012 (in billions)	N			