

3.0 PERFORMANCE MEASURES

Transportation Outlook 2040 includes a set of performance measures based on the plan’s policy framework outlined in Chapter 2.0. The following charts display indicators that help MARC and other transportation stakeholders better understand and evaluate regional progress in meeting the plan’s goals.

More comprehensive information and review of these measures, including broader data comparisons, is available in Appendix F.

MARC staff, committees and other stakeholders will revisit and revise these measures as needed.



Key:

- Blue arrow is the plan goal (increase/decrease in measure).
- Green arrow/green box — trending in the desired direction.
- Red arrow/red box — trending opposite of the desired direction.
- Gray line, gray box — no change or no significant change toward plan goals.

Vibrant	Economic vitality	Factor	Measure	Data	Goal	Actual	Trend
		Freight movement	Tonnage of goods moved	2013: 239.64 million tons	↑	↑	+1.8%
				2014: 264.23 million tons			
		Transportation costs	Annual cost of congestion per commuter	2010: \$434	↓	↑	+25.86%
	2011: \$584						
	Activity centers	Percentage of annual Transportation Improvement Program (TIP) projects within local activity centers	2012: 65.6%	↑	↓	-1.8%	
			2013: 63.8%				
	Placemaking	Factor	Measure	Data	Goal	Actual	Trend
		Multimodal options	Percent of work trips using alternative modes (transit, bicycling, walking, etc.)	2011: 16.99%	↑	—	Not significant
				2012: 16.56%			
		Percentage of people driving alone to work	2011: 83.01%	↓	—	Not significant	
	2012: 83.44%						
Equity	Factor	Measure	Data	Goal	Actual	Trend	
	Environmental justice	Percent of total federal funds (Transportation Improvement Program projects) invested in environmental justice tracts	2012–2016 TIP: 49%	↑	↑	+20%	
		2014–2018 TIP: 69%					

Connected

Transportation choices

Factor	Measure	Data	Goal	Actual	Trend
Transit service	Total revenue service hours	2011: 960,439 hours	↑	↓	-3.58%
		2012: 926,058 hours			
	Average transit boardings per revenue service hour	2011: 17.48 boardings	↑	↑	+7.16%
		2012: 18.74 boarding			
Bicycle-pedestrian accessibility	Number of obligated TIP projects with bicycle and pedestrian elements	2012: 115 projects	↑	↓	-18.26%
		2013: 94 projects			
	Percentage of obligated TIP projects with bicycle/pedestrian elements	2012: 38%	↑	↓	-2.0%
		2013: 36%			

Safety and security

Factor	Measure	Data	Goal	Actual	Trend
Crash fatalities	Number of annual crash fatalities	2012: 198 fatalities	↓	↓	-14.1%
		2013: 170 fatalities			
	Number of annual crash fatalities per 100 million vehicle miles traveled	2012: 1.31	↓	—	no change
		2013: 1.31			
Disabling injuries	Number of annual disabling injuries	2012: 1,337	↓	↓	-5.1%
		2013: 1,269			
	Number of annual disabling injuries per 100 million vehicle miles traveled	2012: 8.87	↓	↓	-0.11%
		2013: 8.86			





		Factor	Measure	Data	Goal	Actual	Trend
Connected	System condition	Bridge conditions	Percent of structurally deficient bridges	2012: 9.14%	↓	↓	-0.92%
				2013: 8.22%			
			Percent of functionally obsolete bridges	2012: 17.25%	↓	↓	-1.0%
				2013: 16.25%			
		Pavement condition	Percent of Kansas roads in MARC region classified as “poor” condition	2013: 0.1%	↓	↑	+0.50%
				2014: 0.6%			
	Percent of Missouri roads in MARC region classified as “not good” condition	2012: 12.1%	↓	↑	+0.2%		
		2013: 12.3%					
Connected	System performance	Travel speeds	Average travel speed (MPH) on highways	2010: 55.58 mph	↑	↓	-2.84%
				2012: 54 mph			
		Congestion	Percent of urban roadways congested	2010: 23%	↓	—	no change
				2011: 23%			
		Travel time	Annual hours of delay per auto commuter	2010: 27 hours	↓	—	no change
				2011: 27 hours			
Travel speeds	Mileage of highly congested routes on Congestion Management Network (CMN)	2010: 33.9 miles	↓	↓	- 37%		
		2012: 21.4 miles					

Green

Public health

Factor	Measure	Data	Goal	Actual	Trend
Ozone pollution	Three-year average of ground-level ozone reading (parts per billion)	2011–2013: 81 ppb	↓	↓	-6.2%
		2012–2014: 76 ppb			
	Number of annual ozone pollution violations	2013: 4 violations	↓	↓	-50%
		2014: 2 violations			
Physical health	Percent of adults obese in Kansas City Region	2011: 30.2%	↓	↓	-1.9%
		2012: 28.3%			
	Percent of adults physically inactive in Kansas City Region	2011: 27.7%	↓	↓	-7.2%
		2012: 20.5%			

Environment

Factor	Measure	Data	Goal	Actual	Trend
MetroGreen® network	Completed miles of the MetroGreen trails and greenways network	2011: 242 miles	↑	↑	+33.9%
		2014: 324 miles			

Climate change/ energy use

Factor	Measure	Data	Goal	Actual	Trend
Vehicle miles traveled (VMT)	Vehicle miles traveled per capita (MARC counties)	2011: 24.9 miles	↓	↓	-14.1%
		2012: 21.4 miles			
Vehicle occupancy	Average number of vehicle occupants	2011: 1.06 occupants	↑	—	Not significant
		2012: 1.07 occupants			

