



Wisconsin Department of Transportation

January 2013

MAPSS

Performance Improvement Report

Mobility
Accountability
Preservation
Safety
Service



Mission

Provide leadership in the development and operation of a safe and efficient transportation system

Welcome to the **MAPSS Performance Improvement Report**

The Wisconsin Department of Transportation's (WisDOT's) MAPSS Performance Improvement program continues to achieve great success in uniting WisDOT divisions to track progress toward the department's strategic goals. In 2013, the department will continue to rely on MAPSS for promoting agility, transparency, and the alignment of performance measurement with the Wisconsin Lean Government Initiative.

The MAPSS Performance Improvement program supports a results-driven environment that allows us to get the most out of our department and the existing transportation system. The data we gather will increase the department's agility in responding to challenges and capacity to predict and monitor future trends.

Performance measures will provide a valuable tool to keep the public and policymakers informed about the state of the transportation network, while providing ongoing accountability and transparency through regular reporting of results. Business units will continue to identify operational measures that support the success of the five MAPSS core goal areas. The department is committed to growing and sustaining the program and making it part of the WisDOT culture of improvement.

Mark Gottlieb, P.E.
Secretary
Wisconsin Department of Transportation

Table of Contents

MAPSS Performance Scorecard	1-2
Mobility	3-7
Accountability	8-13
Preservation	14-19
Safety	20-23
Service	24-28
Appendix A: Additional performance measures	29-32

January 2013

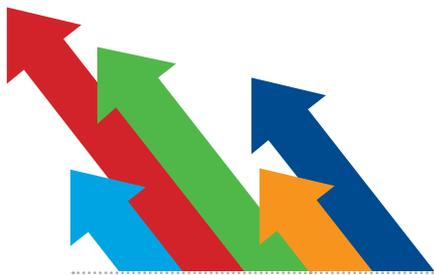
Wisconsin Department of Transportation MAPSS Performance Scorecard

 Goal has been met
  Performance is trending in a favorable direction
  Trend is holding
  Performance is trending in an unfavorable direction

Performance measure	How we measure it	Current report period	Goal	Goal met	Trend	Comments
Mobility: Delivering transportation choices that result in efficient trips and no unexpected delays.						
Urban freeway congestion Calendar year 2011	Percent of urban freeway with serious congestion	15.2	10.0			The measure is based on the percent of urban freeway miles at a mid-level of service (LOS D) or worse (a lower number is better).
Transit availability Calendar year 2012	Percent of population served by transit	54.0	75.0			Slight decrease appears to stem from increased costs and decreased funding.
Bicycle accommodation Calendar year 2012	Percent of state highway miles with bicycle accommodation	69.0	100 percent, except where prohibited			Increasing percentage of bicycle accommodations is mostly due to the paving and widening of shoulders.
Incident response Calendar year 2012	Average time to clear full closures on the interstate	4h 09m	Decrease response time by 5 percent compared to the prior year.			From 2011 to 2012 average incident clearance time was reduced 10 percent, exceeding the annual target.
Winter response State fiscal year 2012	Average time to bare/wet pavement after snow/ice event	0h 54m	2h 00m			The department is implementing best practices using a Maintenance Decision Support System (a lower number is better).
Accountability: The continuous effort to use public dollars in the most efficient and cost-effective way.						
Transportation Economic Assistance Grants Calendar year 2012	Jobs created through TEA Grants	1,819	Annual target is 1,610			In 2013, new goals will be to increase the number of grants and jobs by 50 percent, and achieve 100 percent compliance with reporting requirements.
Timely scheduling of contracts State fiscal year 2012	Percent of highway program funding scheduled in the first six months of the year	43.2	60.0			Monthly snapshots compare actual funding programmed with targets.
On-time performance Calendar year 2011	Percent of highway projects completed on-time	90.0	100.0			Factors affecting this measure include adverse weather, plan changes, material shortages and utility work delays.
On-budget performance State fiscal year 2012	Final highway project cost as percent of original contract amount	102.0	100.0			Costs are impacted by quality and completeness of project designs, field conditions, weather and contract oversight (a lower number is better).
Surplus property management State fiscal year-to-date 2013	Dollar value of surplus land sold	3.22 mil.	2.75 mil.			Goal of \$2.75 million already surpassed. Will exceed fiscal year 2012 totals.
DMV efficiency 2010–2011 calendar year average	Number of DMV products issued per employee hour worked	9.4	9.0			Self-service options and technologies are being used to shorten processing times.

The Wisconsin Department of Transportation MAPSS Performance Scorecard reviews five key goals and over-arching performance measures that guide us in achieving our mission “to provide leadership in the development and operation of a safe and efficient transportation system.” Establishing goals and measuring results is essential to running a successful organization and meeting public expectations.

For more information on MAPSS, visit www.mapss.wi.gov



Goal has been met



Performance is trending in a favorable direction



Trend is holding



Performance is trending in a unfavorable direction

Performance measure	How we measure it	Current report period	Goal	Goal met	Trend	Comments
Preservation: Protecting, maintaining and operating Wisconsin's transportation system efficiently by making sound investments that preserve and extend the life of our infrastructure, while protecting our natural environment.						
State highway pavement condition Calendar year 2011	Percent of state highway pavement rated fair or above	83.9	90.0		↓	The Pavement Condition Index (PCI) rating method was first used by the department in 2010.
State bridge condition Calendar year 2011	Percent of state bridges rated fair or above	96.9	95.0	✓	↔	State bridge conditions are holding steady and exceeding the goal.
State-owned rail line condition Calendar year 2012	Percent of state-owned rail line meeting FRA Class 2 Standard (>10 MPH).	55.0	100.0		↑	While Wisconsin did not meet the goal for percent of state-owned rail line meeting FRA Class 2 Standards, it exceeded the goal of improving approximately 10 miles of track per year.
Airport pavement condition Calendar year 2012	Percent of airport pavement rated fair or above	90.0	90.0	✓	↓	Although there was a 2 percent decrease in condition compared to last year, the overall goal was met.
State highway maintenance Calendar year 2011	Grade point for the maintenance condition of state highways	2.61	3.0		↓	Conditions declined slightly in 2011, falling back to historic levels after American Recovery and Reinvestment Act (ARRA) projects were completed.
Material recycling State fiscal year 2012	Tons of recycled materials used in projects	2.15 mil.	2.0 mil.	✓	↓	Volume declined slightly in 2012, falling back to historic levels after American Recovery and Reinvestment Act (ARRA) projects were completed.

Safety: Moving toward minimizing the number of deaths, injuries and crashes on our roadways.

Traffic fatalities *Preliminary calendar year 2012	Number of traffic fatalities	601*	Annual target is 569		↓	Each fatality is a tragic and preventable loss. Our long-term goal is zero preventable deaths. Preliminary fatalities for 2012 are 0.3 percent above the five-year average (a lower number is better).
Traffic injuries Calendar year 2011	Injury rate per 100 million vehicle miles traveled	68.56	Annual target rate is 74.35	✓	↑	The personal injury rate in 2011 was the lowest rate recorded, 12.4 percent below the five-year rolling average of 78.26 (a lower rate is better).
Traffic crashes Calendar year 2011	Crash rate per 100 million vehicle miles traveled	192.16	Annual target rate is 189.69		↓	2011 data is 3.8 percent below the prior five-year rolling average (a lower rate is better).
Seat belt use Calendar year 2012	Percent of vehicle occupants wearing a seat belt	79.9	85.0		↑	While Wisconsin's seat belt usage reached an all-time high in 2012, the state still lags behind neighboring states like Illinois and Michigan, which estimate safety belt use rates of more than 90 percent.

Service: High quality and accurate products and services delivered in a timely fashion by a professional and proactive workforce.

DMV wait times Calendar year 2012	Percent of DMV service center customers served within 20 minutes	76.4	80.0		↑	New online service and renewal options help minimize the need for customers to visit a customer service center.
DMV electronic services Calendar year 2011	Number of DMV electronic service transactions	3.45 mil.	Annual target is 3.24	✓	↑	There was an 8.4 percent increase in electronic services between 2010 and 2011.
DMV driver license road test scheduling Calendar year 2012	Available tests as a percent of estimated demand	67	90		↔	This is a new improvement measure in January 2013. Baseline data from 2012 show a decline in availability during the holiday season.
On-road traffic information Calendar year 2012	Number of electronic message signs	71	Annual target is 73		↑	10 of the 12 planned signs in the Transportation Operations Infrastructure Plan have been added.
Phone & web traffic information Calendar year 2012	Number of 511 calls and 511 web hits	1,677,683	Annual target is 1,691,147		↑	For CY 2012, the Department logged 181,820 calls and 1,495,863 web hits.

Wisconsin Department of Transportation MAPSS Performance Improvement



Mobility: Urban freeway congestion

Report Date: January 2013

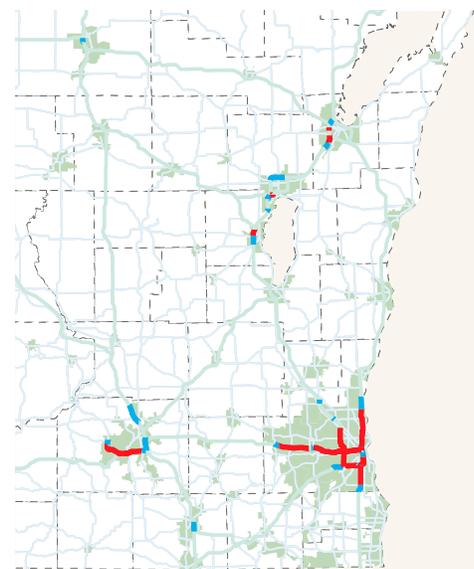
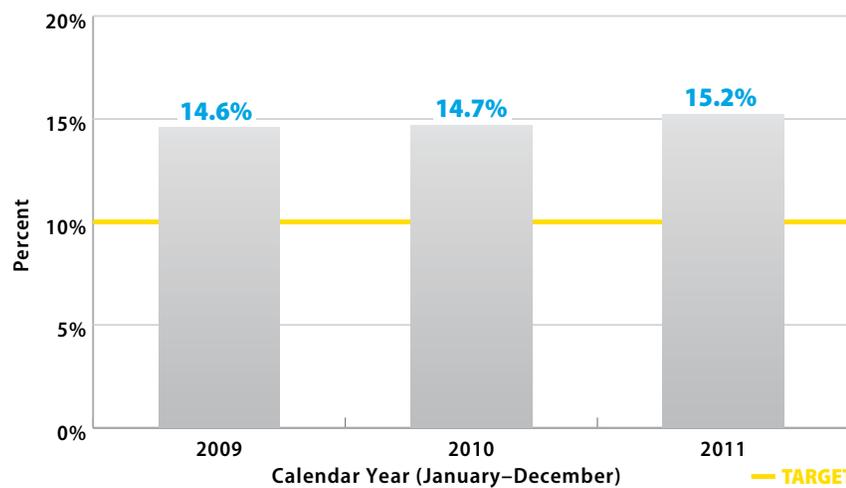
Data Frequency: Annual (Calendar Year)

Division: Transportation Investment Management

Why is it important? When traffic congestion reaches serious levels, it can have detrimental effects on the economy because of increased travel times and the increased costs for auto and freight movements. Traffic flow in times of serious congestion tends to be unreliable, especially in cases where a traffic incident or construction activity restricts the use of one or more lanes of the roadway. Traffic congestion can also lead to serious safety issues. In the long-term, serious freeway congestion can impact the growth potential of an urban area.

Performance measure target: The department's goal is to reduce the percent of urban freeway miles that have serious congestion to 10 percent.

Figure: Urban Freeways with Serious Congestion



■ Serious Congestion (LOS Mid D or Worse)
■ Moderate Congestion (LOS Low D)

How do we measure it? The measure uses calculations from the Highway Capacity Manual published by the Transportation Research Board. Each year, a “level of service,” or LOS, is calculated for each freeway segment based on hourly traffic volume, roadway geometric conditions and road capacity. The hourly traffic volumes are for the 30th highest hour of the year, as recommended by the American Association of State Highway and Transportation Officials. The measure is based on the percent of urban freeway miles at a mid-level of service (LOS D) or worse.

How we are doing? Currently 15.2 percent of the 540 miles of urban freeway in Wisconsin have serious congestion levels. The percent of urban freeway miles with serious congestion has remained fairly steady over the last several years, increasing by 0.6 percent since 2009, or just over three miles.

What factors affect results? As traffic volumes grow, urban freeways will become more and more congested. The congestion can be improved by using a combination of strategies, which could include operational improvements made possible by implementing Intelligent Transportation System technologies or by expanding highway capacity through an increase in the number of travel lanes. Availability of funding, from both an improvement and operations perspective, is a significant controlling factor.

What are we doing to improve? The department is implementing improvements on two urban freeway segments in southeast Wisconsin and was recently given approval by the Transportation Projects Commission to begin studying three additional urban freeway segments for potential construction as major highway projects. Completion of these projects will not occur for some time, but when complete, they will significantly reduce the number of urban freeway miles with serious congestion in Wisconsin.

Wisconsin Department of Transportation MAPSS Performance Improvement



Mobility: Transit availability

Report Date: January 2013

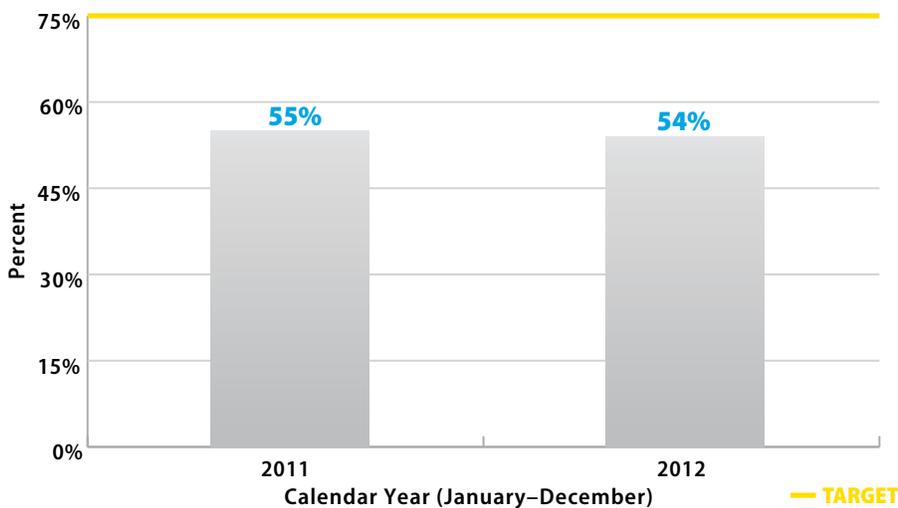
Data Frequency: Annual (Calendar Year)

Division: Transportation Investment Management

Why is it important? Transit provides a lifeline to those who depend on it to obtain medical care, make shopping trips, get to school or work and meet other basic needs. Without transit service, over 15 million trips per year could not be made, 58 percent of which are job-related. Greater transit availability means greater mobility for Wisconsin citizens. Transit service is a key component of a comprehensive, multimodal transportation system and contributes to an enhanced quality of life in Wisconsin communities.

Performance measure target: The department's goal is to increase the population with access to transit service to 75 percent.

Figure: Percent of Population Served By Transit



How do we measure it? The total population with access to transit is calculated by adding together the population that lies within one-quarter mile walking distance from a fixed bus route for Wisconsin's urban bus systems and the population within the service area for shared-ride taxi and other public transit systems (i.e. not fixed route). The total population with access is then divided by Wisconsin's total population to determine a percent of Wisconsin's population with access to public transit each calendar year.

How are we doing? Approximately 54 percent of the State's population has access to public transit. This represents a decrease of one percent from 2011 to 2012.

What factors affect results? The degree of investment in transit from federal, state and local sources is a major factor affecting this performance measure. Efforts by communities to encourage land use decisions that increase population density in areas having transit access also have an effect. Transit service operated on a regional, as opposed to a community-by-community basis, also tends to increase the percent of the regional population with access to transit.

What are we doing to improve? The department actively provides technical assistance to local transit providers in the areas of planning and budgeting, and frequently sponsors transit development plans and feasibility studies to ensure that transit investments are well informed, sustainable and promote effective service. Department staff review transit system budgets and service profiles annually to make sure transit operations are consistent with state and federal regulations, as well as department goals and best practices. The department also conducts comprehensive performance analyses of urban bus systems every five years as a means of assessing how well each transit system serves its community. For shared-ride taxi systems, the department compiles an annual cost efficiency report. If the service provided by any system consistently falls outside of efficiency norms, a management performance review is performed, recommendations are made to improve performance and the managers of the transit system are charged with implementing the recommendations.

Wisconsin Department of Transportation MAPSS Performance Improvement



Mobility: Bicycle accommodation

Report Date: January 2013

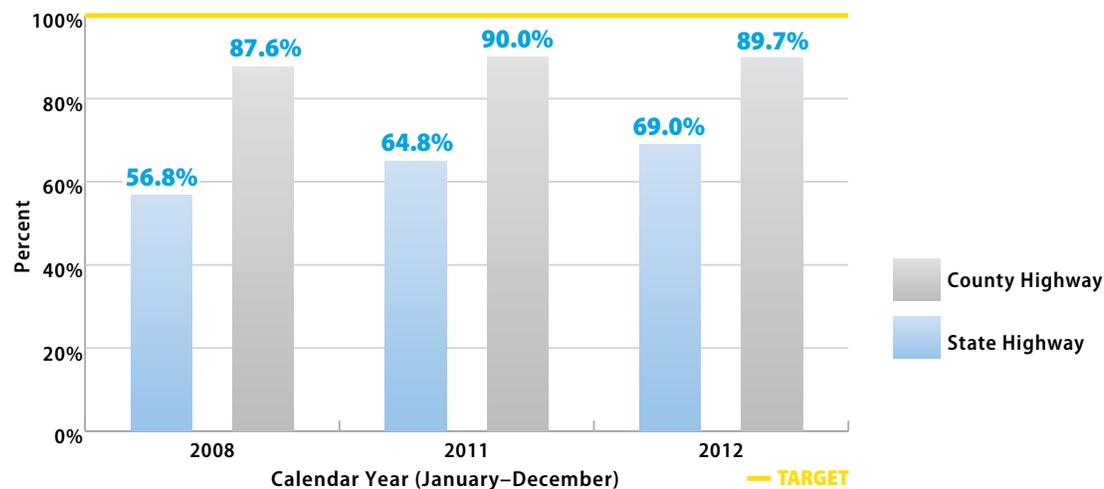
Data Frequency: Annual (Calendar Year)

Division: Transportation Investment Management

Why is it important? Wisconsin's "Complete Streets" law requires that bikeways are established in all new highway construction and reconstruction projects funded in whole or part by state or federal funds unless there is an approved exception. Providing the option to travel by bicycle is necessary for people too young to drive, people who cannot drive or those who choose not to drive.

Performance measure target: The department's goal is for county and state highways to accommodate bicycles on all highway projects where bicycles are allowed. Rural highways with very-low to low volumes will provide the best conditions for bicycling. At moderate traffic volumes paved shoulders will also improve bicycling conditions.

Figure: Percent of Rural County/State Highways Rated in Best/Moderate Condition for Bicycling



How do we measure it? The total rural miles of state and county highway with the best or moderate conditions for bicycling are divided by the total number of non-freeway miles of state and county highway in Wisconsin each calendar year. The department measures bicycling conditions on rural highways by taking into consideration traffic volume, pavement width, truck percentage and percent solid yellow line (an indicator of hills and curves). In general, a rural highway with a daily traffic volume under 750 may be ranked best or moderate for bicycling. If the daily traffic volume of a two-lane rural highway is greater than 5,000, this is a higher volume rural highway, which may have an extra wide lane or shoulder, or an adjacent bike trail/path, and would be considered less desirable for bicycling. For all traffic volumes in between those two thresholds, the pavement width is analyzed along with the other transportation data variables to determine the bicycling conditions and identify potential facility improvements.

How are we doing? Wisconsin continues working to improve bicycling conditions on county and state highways. In 2008, 87.6 percent of county highways and 56.8 percent of state highways provided best/moderate conditions. In 2011, these figures increased to 90.0 percent and 64.8 percent. In 2012, county highways dropped slightly, to 89.7 percent, and state highways increased to 69.0 percent. Despite the slight drop in county highway accommodation, we did see about 95 miles (about 5 percent of the total) of county highways widened in the past year. The increase in width resulted in almost 80 of those miles improving from a poor rating to a moderate or good rating. Despite that, increases in traffic volumes resulted in an overall slight decrease in condition.

What factors affect results? Vehicles per day, roadway width and the presence or absence of paved shoulders are the primary determinants of rural bicycling conditions. The percent of highways that can provide the best conditions for bicycles declines as traffic volumes increase. It is in the areas where there are higher traffic volumes that the condition improves when a wider paved shoulder is provided.

What are we doing to improve? The improvement in the conditions for bicycling on rural highways is mostly due to the paving of shoulders. Bicycling conditions can also be improved when bicycle accommodations are provided such as a paved shoulder, a wide outer travel lane, a bike lane or an adjacent trail/path. These facilities benefit all roadway users.

Wisconsin Department of Transportation MAPSS Performance Improvement



Mobility: Incident response

Report Date: January 2013

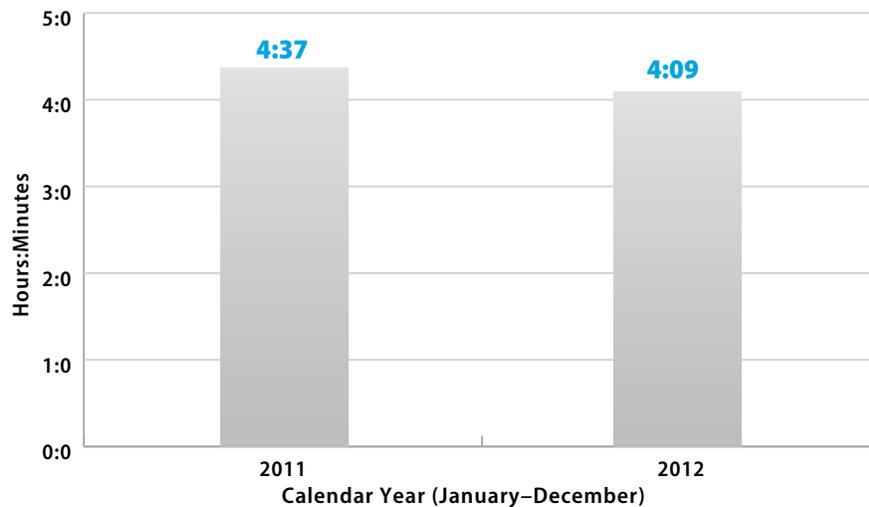
Data Frequency: Annual (Calendar Year)

Division: Transportation System Development

Why is it important? Incidents happen on the interstate system every day. An incident can be a minor fender bender or a serious traffic crash. Restoring the interstate to full operation as quickly as possible after a major traffic incident helps to reduce the occurrence of secondary incidents, minimize delay for people and freight and lessen the associated economic impacts of traffic delays.

Performance measure target: The department's goal is to reduce the length of time traffic flow is disrupted by incidents on the interstate. Setting quantitative targets for this measure is very difficult due to challenges related to the reporting mechanism. However, the target is to improve response times by five percent each year.

Figure: Average Time to Clear Interstate Highway Incident



How do we measure it? This measure focuses on extended duration incidents which are defined as events closing one direction of the interstate for two hours or more, or closing both directions for 30 minutes or more. The clearance time for an incident is defined as the time from when an agency with responsibility to respond to the incident first becomes aware of the incident and the time when the last person responding to the incident leaves the scene. The department is compiling data on an annual basis. This performance measure represents the average clearance time over all extended duration incidents.

How are we doing? The department is in the early stages of tracking clearance times for extended duration incidents in hours/minutes and developing benchmarks to evaluate performance. It was previously measured in another way so historic data is not available. The department has achieved the target of reducing average time to clear interstate highway incidents by five percent. From 2011 to 2012, the average incident clearance time was reduced by 10 percent.

What factors affect results? The location and seriousness of an incident will affect the time it takes to clear the incident, as will the amount of traffic on the highway at the time.

What are we doing to improve? For every extended duration incident, the department is conducting an after-action review with the agencies involved in the incident response. The department then compiles and shares the lessons learned, ideas for improvement and best practices with all first responder and public safety agencies at regularly occurring regional Traffic Incident Management Enhancement (TIME) meetings. This information will also be used to identify future initiatives and training needs. Educating those that are at the scene of incidents on proper protocols and communication practices can help reduce the duration of an incident in the future.

Wisconsin Department of Transportation MAPSS Performance Improvement



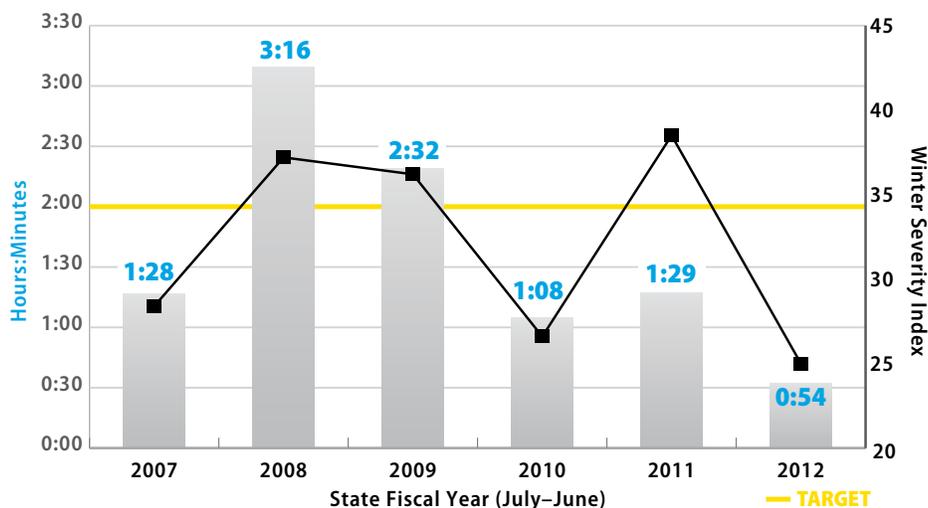
Mobility: Winter response

Report Date: January 2013 **Data Frequency:** Annual (State Fiscal Year) **Division:** Transportation System Development

Why is it important? Returning roads to the condition they were in before a winter storm restores the capacity of the system to move traffic. This allows safe travel to work, school and other destinations. Clear roads also meet the needs for emergency travel and restore travel time reliability, which is important to the movement of freight.

Performance measure target: The department’s goal is to have the state highway system clear of snow and ice two hours or less after the end of a winter weather event.

Figure: Average Time to Bare/Wet Pavement After Snow/Ice



How do we measure it? Each county provides weekly reports covering each storm event. They record the time at two points; when each storm event ends and when roads were restored to bare/wet pavement. For each storm event, the time to bare/wet pavement is calculated as the elapsed time between these two points. The performance measure is the average time to bare/wet pavement taken over all storm events. Data is compiled for each state fiscal year (July–June).

How are we doing? Results are reasonably close to department expectations for meeting this goal.

What factors affect results? Controllable factors include the timing of the response, availability of resources and the quality of the response taking into account the workforce and in-storm decision-making. Performance is also affected by the type, duration and severity of the winter event; temperature and wind conditions following a storm; labor; equipment; materials applied; accuracy of forecasts; effectiveness of event planning; trained workforce and storm management.

With this performance measure, it is possible to have a negative time value. During some storm events on higher volume roads, pavements sometimes reach a bare/wet condition prior to the end of the storm and create a negative value. The department also calculates a Winter Severity Index that provides a way to compare weather from year to year. With weather being such a large factor in this performance measure, the Winter Severity Index is another useful measurement tool and can be related to average time to bare/wet pavement.

What are we doing to improve? The department is implementing best practices using a Maintenance Decision Support System, prioritizing adequate resources for this basic yet essential function. We are also working to ensure the right materials are available and used for the conditions before, during and after each storm event.

Wisconsin Department of Transportation MAPSS Performance Improvement



Accountability: Transportation Economic Assistance Grants

Report Date: January 2013 **Data Frequency:** Annual (Calendar Year) **Division:** Transportation Investment Management

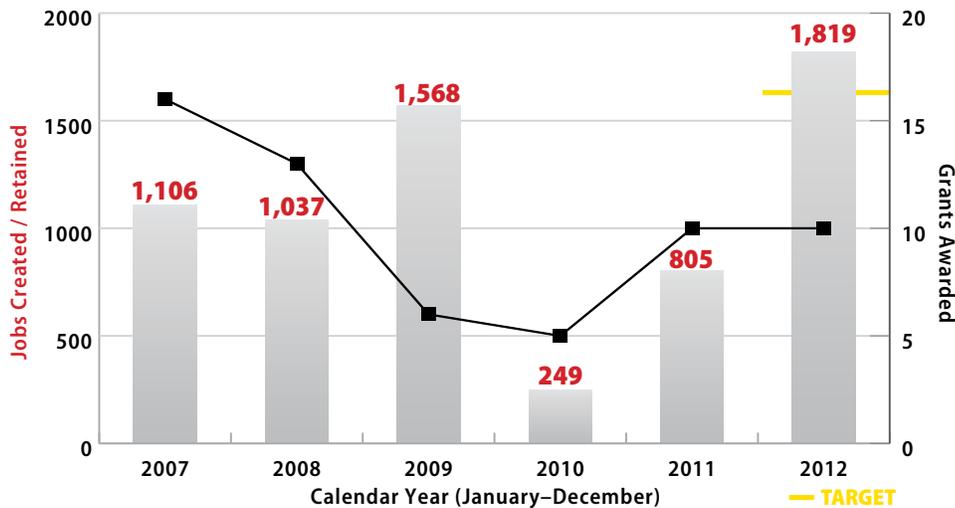
Why is this important? The Transportation Economic Assistance (TEA) Program provides up to 50 percent state grants or \$5,000 maximum per job to governing bodies, private businesses, and consortiums for road, rail, harbor and airport projects that help attract employers to Wisconsin, or encourage business and industry to remain and expand within Wisconsin.

The program strives to increase the number of jobs statewide by rapidly responding to the transportation needs of an economic development project when that project is contingent on a transportation facility improvement. The goal is to attract and retain business in Wisconsin that increases the number of local job opportunities, generates property taxes, and increases local spending.

Performance measure target: The target for this measure in 2012 was to increase the number of jobs created through the TEA program by 100 percent compared to the previous year (1,610 is the 2012 target). Based on program-area analysis, the new targets, beginning with the next quarterly update, will be to:

- increase the number of grants approved and awarded by 50 percent from 10 in 2012 to 15 in 2013;
- increase the number of jobs created plus retained by 50 percent from 1,819 in 2012 to 2,700 in 2013; and
- achieve 100 percent compliance for reporting.

Figure: Transportation Economic Assistance Grants (number of jobs created and grants per calendar year)



How do we measure it? Results are measured and tracked via an annual report. WisDOT provides this report to the Wisconsin Economic Development Corporation (WEDC), which in turn reports results on its web site.

How are we doing? Submitting reports summarizing the number of jobs created and/or retained is a requirement for receiving the grant funds. Approximately 55 percent of the communities receiving TEA grants meet this requirement. Communities that fail to comply with this requirement are banned from future awards. In 2012, WisDOT exceeded the job creation and retention goal of a 100% increase over the 2011 jobs total.

What factors affect results? There has been difficulty obtaining reports due to the requirement for the community to have a certified public accounting firm verify the employment numbers. There are additional costs for communities to obtain the services of a CPA firm to verify the jobs, and well as CPA firms incurring potential liabilities for reviewing employment numbers for businesses not under contract with them.

What are we doing to improve? The department works with businesses benefitting from the grants to have the companies report their annual employment numbers directly to WisDOT.

Wisconsin Department of Transportation MAPSS Performance Improvement



Accountability: Timely scheduling of contracts

Report Date: January 2013

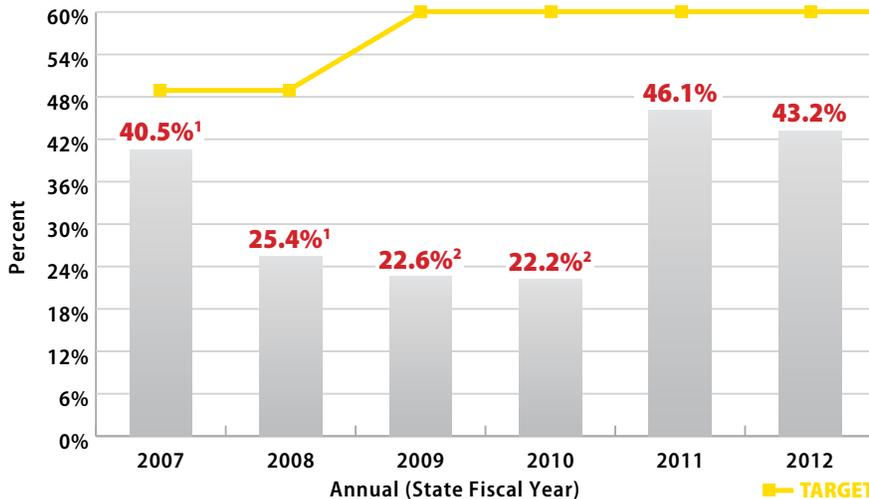
Data Frequency: Annual (State Fiscal Year)

Division: Transportation System Development

Why is this important? The process for timely scheduling of contracts is critical because it distributes improvement projects into monthly bid lettings over the course of the state fiscal year to balance the workload for the department and enhances program delivery. Having a predefined plan with at least 60 percent of the work being let prior to January 1st each year allows the road building industry to efficiently plan and schedule work forces and equipment for the upcoming construction season. This plan maximizes competitive bid prices, provides the department flexibility in adjusting lettings in the last half of the fiscal year for let contract savings or overages and allows the department to spend additional federal funds if they are received late in the year.

Performance measure target: Beginning in 2012, contract for 60 percent of the improvement program funding in the first half of the state fiscal year between the months of July and December.

Figure: Percent of Annual Road Construction Contract Funds Scheduled for Bid Letting During First Six Months of Fiscal Year



¹The performance measure target was 49 percent for 2007 and 2008. The target increased to 60 percent beginning in 2009 with the goal of achieving it beginning in 2012.

²In 2009 and 2010, the department received significant ARRA funding late in the year. Timing of the ARRA funded projects and the increased total value had a negative effect on the department's ability to meet this performance measure target.

How do we measure it? Monthly snapshots allow the department the ability to compare the actual funding amounts programmed with predefined monthly targets.

How are we doing? The department has begun to rebound after three consecutive years of delivering 22–25 percent of the year's total improvement program in the first half of the year. There is still considerable work to do to improve. In 2009, the department increased the goal to 60 percent in order to encourage earlier scheduling of contracts.

What factors affect results? Generally, future years are well planned and match the established monthly letting guidelines. During recent years, delays relating to real estate acquisition, utility clearance, and project milestone revisions due to inadequate resources caused projects to be moved to future months.

What are we doing to improve? The department developed a performance management system and an active management oversight process to aid in meeting the individual monthly targets and the first half of the year delivery goal target.

Wisconsin Department of Transportation MAPSS Performance Improvement



Accountability: On time performance

Report Date: January 2013

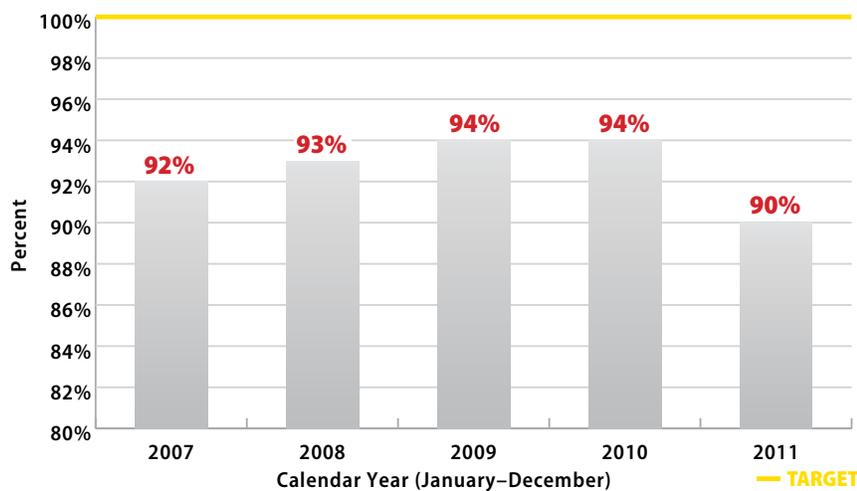
Data Frequency: Annual (Calendar Year)

Division: Transportation System Development

Why is this important? This measure indicates the department's ability to estimate and manage the amount of time it will take to complete a highway construction project. The better the department is at determining project time, the better able we are to schedule future projects to effectively utilize contractor resources. The general public and businesses are impacted by construction projects. When the department adheres to a schedule, the better everyone can plan for the impacts.

Performance measure target: The department's goal is to meet the project time frame specified in the construction contract 100 percent of the time.

Figure: Percent of Highway Projects Completed On Time



How do we measure it? This measure reports the percent of construction projects that were completed within the original project time frame specified. The numbers are calculated by identifying construction projects that had work completed during the calendar year and then comparing the actual date/days the project took to complete with the date/days that were specified in the contract.

How are we doing? The number of construction projects completed on time dropped in 2011 from a high of 94 percent the previous two years. In 2009 and 2010 the department invested resources to administer a larger than normal construction program that included projects from the American Recovery and Reinvestment Act (ARRA).

What factors affect results? Factors affecting this measure include adverse weather, plan changes during construction, material delays or shortages and utility work delays, and contractor scheduling. The on time performance is also impacted by the quality and completeness of project designs.

What are we doing to improve? The department is considering implementing some of the lessons learned from the practices used for the ARRA projects, like specifying start dates, or specifying a window of time for completing a working day or calendar day project. This would ensure that work is scheduled in a timely manner and projects can be completed before fall weather becomes a factor. In addition the department is working with the utility industry to get better facility location information on plans. This will help prevent the problem of unknown utilities causing delays. Overall the department lets larger and more complex construction contracts out for bid in the fall or early winter prior to the anticipated construction year. This is to ensure the contractors have adequate time to schedule the resources and staffing needed to complete the project in the desired time frame.

Wisconsin Department of Transportation MAPSS Performance Improvement



Accountability: On budget performance

Report Date: January 2013

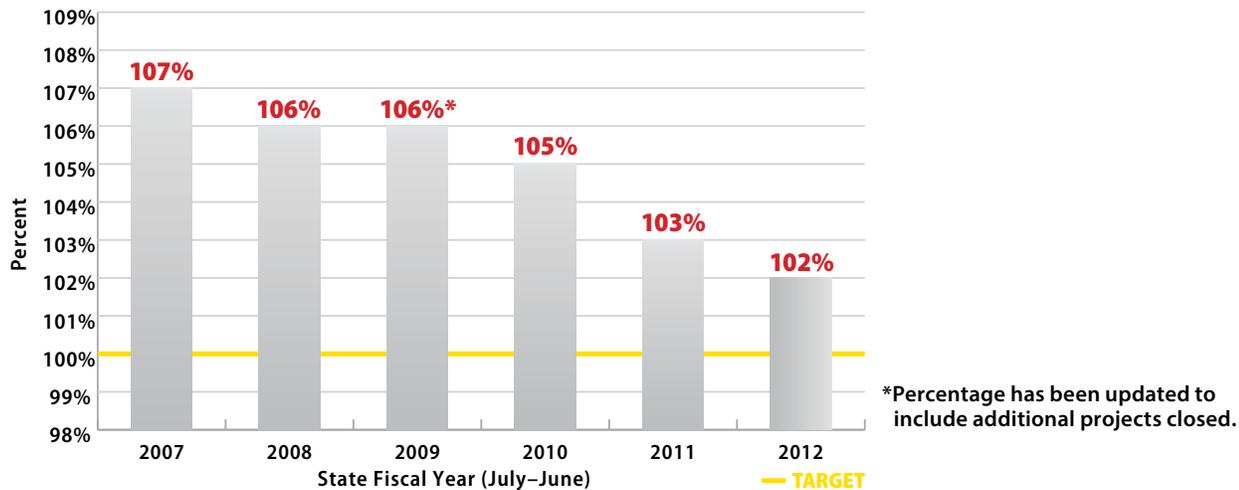
Data Frequency: Annual (State Fiscal Year)

Division: Transportation System Development

Why is it important? The department works to have the final project cost as close as possible to the amount that was originally contracted for when the project was let out for bid. This allows the department to schedule projects more effectively. It also provides a measure of quality for the original project design and the construction management. While the department sets aside a certain percent of its budget to anticipate some added costs, keeping project cost overruns to a minimum allows the department to better plan where to spend the limited dollars that are available.

Performance measure target: The department's goal is to have the actual project costs equal the original contract amount, or a value of 100 percent.

Figure: Final Highway Project Cost as a Percent of the Original Contract Amount



How do we measure it? This measure focuses only on projects in the State Highway Rehabilitation and Major Highway programs where construction is at least 95 percent complete. The measure adds up all the actual costs (excluding engineering and project oversight) within a state fiscal year (July-June). It then compares those actual costs with the original contract amount. The difference between the actual costs and the original contract amount shows the percent of increased costs for construction.

How are we doing? The department's average over a five-year reporting period of under six percent in cost overruns is considered good by industry standards. Continued efforts will help minimize spikes and achieve the target of having final costs equal the original project amount.

What factors affect results? Actual costs are impacted by the quality and completeness of project designs, changes in field conditions, weather and contract oversight. Active change management procedures, changes in customer expectations and changes in how projects are scoped and managed can also influence results.

What are we doing to improve? The department is using a variety of techniques to improve performance reporting and overall project management. These include enhanced risk management and project oversight for large contracts, organization changes to provide critical reporting services and process improvements related to contract change management. Over the last year the department has been analyzing information related to construction change orders and overruns to identify trends and isolate best practices. Initial results suggest changes to the reporting criteria to improve the report integrity and the need for additional data targeted on projects that exceed 108 percent of their original bid to better isolate opportunities for improvement.

Wisconsin Department of Transportation MAPSS Performance Improvement



Accountability: Surplus property management

Report Date: January 2013

Data Frequency: Quarterly (Fiscal Year)

Division: Transportation System Development

Why is it important? The department purchases property for transportation improvement projects. Once the project design and construction is complete, some of the land is no longer needed by the state and can be made available for private development. The revenue generated by surplus land sales is deposited into the Transportation Fund to be available for other transportation improvements. Surplus land that is sold spurs local economic development since the parcels often have good access and visibility. When land is returned to the tax rolls, local governments benefit because they can generate new property tax revenue from the property.

Performance measure target: The department's goal is to generate \$2.75 million in revenue each state fiscal year through the sale or lease of surplus property in accordance with Wisconsin State Statute 85.15(2) and to return as much land as possible to the local tax rolls.

Figure: Dollar Value of Surplus Land Sold



How do we measure it? The department's regional offices enter sale and lease data into a central system. This data is then broken down into four categories—sale of land, sale of buildings and personal property, rental income and lease income. The total revenue from surplus land sales is compiled for each state fiscal year.

How are we doing? Sales and lease of surplus property have recovered from the national downturn in the real estate market. For the 2nd Quarter of fiscal year 2013, we have already surpassed our annual goal of \$2.75 million. We expect fiscal year 2013 to be equal to or surpass FY2012 goals and performance.

What factors affect results? The national economy affects the interest developers have in surplus land for economic development. With increased job growth and easier lending policies, there is an increase in surplus land purchases.

What are we doing to improve? The department has hired several consultants in the regional offices to help market and sell excess land and to perform other property management functions such as the sale of personal property, lease revenue and rental income. With this option we don't have to increase the overall size of state government by adding positions, but can utilize partners in the private sector for their expertise and efficiencies. We are also analyzing our surplus land sale processes for opportunities to streamline, and speed up the sale of surplus land. Our goal is to not only raise additional revenue for the transportation fund but also reduce the amount of land inventory we currently have and return it to the local governments for property tax revenue.

Wisconsin Department of Transportation MAPSS Performance Improvement



Accountability: DMV efficiency

Report Date: January 2013

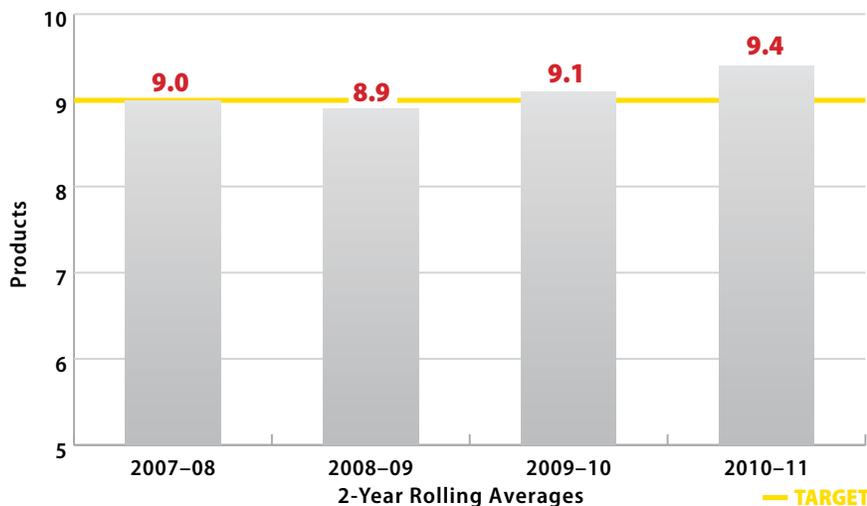
Data Frequency: Annual (Rolling Average)

Division: Motor Vehicles

Why is it important? The Division of Motor Vehicles (DMV) issues many products, including driver licenses, identification cards, license plates, vehicle titles and registration renewal stickers. The number of DMV products issued per hour is a measure of the efficiency and effectiveness of the department's customer service.

Performance measure target: The department's goal for this measure is to maintain or improve the number of products issued per hour on a two-year rolling average. A two year average is used due to the variation in transactions that results from biennial vehicle registration that typically occurs in even-numbered years.

Figure: Number of DMV Products Per Employee Hour Worked



How do we measure it? The number of products per hour has been predictably higher in even-numbered years because of biennial registrations. For this reason, the measure is a rolling two-year average. The calculation for the two year period is the number of products issued divided by the number of DMV employee work hours.

How are we doing? Since 2008, the number of products per hour in each two-year period has increased, with the 2010-2011 number being 9.4.

What factors affect results? This measure is sensitive to changes in population (number of products applied for), staffing (total hours worked) and automation (total time it takes to issue a product). It trades off against wait times for service. Absent significant new automation, with fewer staff, products per hour may increase but customers wait longer for their products. With automation, products per hour can be maintained or increased with fewer staff.

What are we doing to improve? The department is using a number of things to improve this measure. These include increasing self-service options for customers, making use of new technologies to shorten processing time and increasing partnerships with outside vendors.

Wisconsin Department of Transportation MAPSS Performance Improvement



Preservation: State highway pavement condition

Report Date: January 2013

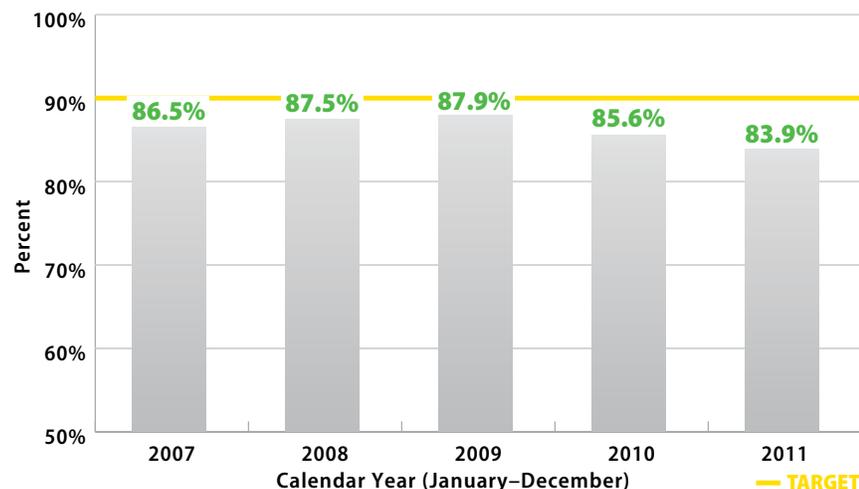
Data Frequency: Annual (Calendar Year)

Division: Transportation Investment Management

Why is it important? The nearly 12,000 miles of state highway in Wisconsin support 60 percent of the vehicle miles traveled. When pavement is in good condition, it promotes the safe and efficient movement of people and products throughout the state. Comprehensive pavement condition data is necessary to determine cost-effective maintenance and improvement strategies that extend the life and serviceability of the state highway system. In order to get the best value for pavement investment dollars, the department relies on data-driven decision-making processes that use pavement condition data for project planning and programming purposes.

Performance measure target: The department's goal is to have 90 percent of state highway pavements rated fair or above using the most cost effective pavement improvement methods available.

Figure: Percent of State Highway Pavement Rated Fair or Above



Note: variations due to changes in technology and departmental measurement procedures should be considered when comparing values derived from PCI (after 2010) and values derived from PDI (prior to 2010).

How do we measure it? The Pavement Condition Index (PCI) method is used for rating pavement condition based on visual signs of pavement distress, such as cracks, ruts and potholes. The PCI is a numerical rating that ranges from 0 to 100, with 100 being a pavement in excellent condition.

How are we doing? The first year the department had complete statewide coverage using the Pavement Condition Index (PCI) rating method was 2011. Prior to 2011, the department assessed pavement condition using a different methodology known as the Pavement Distress Index (PDI). The 2011 data shows 83.9 percent of the system in fair or above condition. The 2010 and 2011 ratings are slightly lower than system conditions during the preceding four years as measured by PDI.

What factors affect results? The degree of investment in improvement programs from federal and state sources is a major factor affecting this performance measure. Pavement condition is impacted by material quality, adequacy of pavement design, environmental factors such as temperature and moisture, traffic loading, improvement and maintenance history and pavement age. All of these factors must be considered when determining what rehabilitation strategies will provide cost-effective service life. The department uses asset management tools and strategies to determine the level of investment and fully utilize the state highway improvement funding provided through the state budget.

What are we doing to improve? The department continues to research, develop and implement pavement rehabilitation and maintenance processes that maximize the long-term health of the highway system. This includes researching and testing new materials. It also involves enhancing asset management strategies that include improved data, data analysis tools and prioritization to make sound investment decisions.

Wisconsin Department of Transportation MAPSS Performance Improvement



Preservation: State bridge condition

Report Date: January 2013

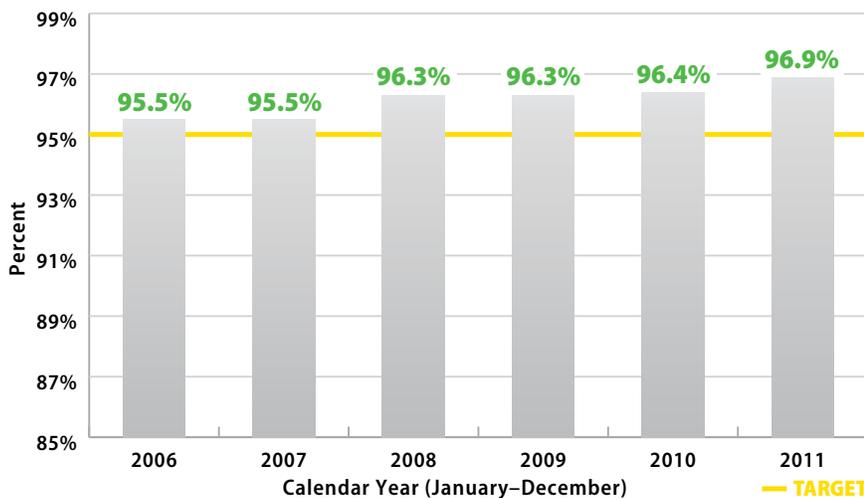
Data Frequency: Annual (Calendar Year)

Division: Transportation System Development

Why is it important? Wisconsin bridges are critical infrastructure assets of the highway transportation network. Ensuring safety for the traveling public is a top priority for the department. Inspecting and evaluating bridges is a key component of meeting this objective. Bridges with a condition rating of poor are considered deficient and may need corrective action to ensure current and future operation of the transportation system. An accurate understanding of the condition of the inventory of bridges allows for planning and prioritizing limited resources to address operational needs.

Performance measure target: The department's goal is to have 95 percent of Wisconsin's state-owned or maintained bridges rated fair or above.

Figure: Percent of Bridges Rated Fair or Above



How do we measure it? The department performs bi-yearly safety inspections and condition assessments of bridges. This is the designated frequency in National Bridge Inspection Standards (NBIS). Through these inspections, condition rating data is collected for the deck, super structure and sub structure and an overall rating of good, fair or poor condition is assigned each calendar year.

How are we doing? The department works to allocate the resources it has available to meet the safety and mobility needs of the state. Currently 96.9 percent of Wisconsin's 5,140 state owned or maintained bridges have a good rating or fair rating, while 3.1 percent of the state bridges have a poor condition rating. The 3.1 percent of state bridges with a poor condition rating includes 66 bridges with weight restrictions. The above trend line shows that Wisconsin has been increasing its good and fair bridges over the past five years. When including Wisconsin's 8,811 local bridges, the bridge condition rating drops to 91.8 percent, however, this surpasses the national average of 88.5 percent. The state highway system network accounts for 10 percent of the total mileage in Wisconsin, yet handles 60 percent of the total vehicle miles traveled.

What factors affect results? Wisconsin puts a high emphasis on maintaining and improving its bridges through its rehabilitation and replacement improvement programming. Bridges receive the highest priority in the project selection process. Wisconsin spends additional state money above the federal dollars it receives from the bridge program to maintain its bridges. In addition, the department has a highly successful bridge inspection and bridge management program that ensures safe and efficient bridges.

What are we doing to improve? The department is continually looking to improve the condition of its bridges by new technology, bridge innovations, constant inspection monitoring, improved management processes and rigorous quality assurance of the bridge program.

Wisconsin Department of Transportation MAPSS Performance Improvement



Preservation: State-owned rail line condition

Report Date: January 2013

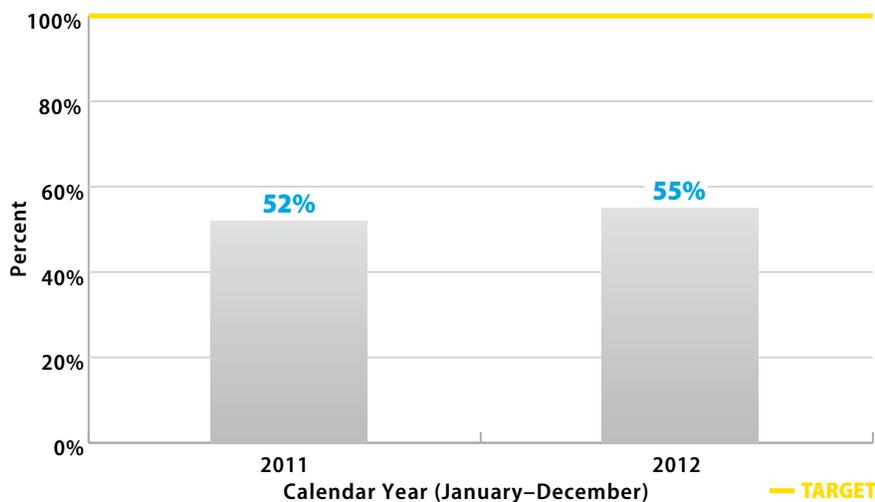
Data Frequency: Annual (Calendar Year)

Division: Transportation Investment Management

Why is it important? The efficient movement of freight throughout the state enhances Wisconsin's economic productivity and competitiveness. It is critical to maintain train operating speeds as high as possible to optimize the daily movement of freight in the state.

Performance measure target: The department's goal is to have 100 percent of state-owned rail line miles capable of operating at the Federal Rail Administration (FRA) Class 2 operating speed standard. Based on current funding availability, the goal is to improve approximately 10 miles of track per year.

Figure: Percent of Miles of State-Owned Rail Line Meeting FRA Class 2 Standard (>10 mph)



How do we measure it? The track is evaluated on the number of miles allowing operation at speeds allowed by the FRA's Track Safety Standards. The objective is to have all tracks capable of being operated at speeds of over 10 mph. This track would be in compliance with the FRA's Class 2 Track Safety Standards. The department strives to maximize the number of loaded 286,000 pound rail cars that can operate on state-owned rail lines that meet at least the FRA Class 2 track safety standard. This operational speed will allow railroads to serve most customers with a daily round trip.

How are we doing? In 2011, a total of 371 miles of the overall 713 miles of track, or 52 percent of state-owned rail lines could allow operating speeds of over 10 mph. In 2012 a total of 391 miles of the total 713 miles of track, or 55 percent of state-owned rail lines met the desired standard of being able to accommodate operating speeds over 10 mph. This exceeds the goal of improving 10 miles of track per year.

What factors affect results? The economy has an impact on the volume of goods moved by railroads, the revenue they earn and the reinvestment in their track and structures. The funding provided in the current state budget dictates the level of funding for the freight rail grant program. The required cost share on individual projects is provided by rail transit commissions or the railroad. As the cost of raw materials and labor increase, the amount of track infrastructure improvements that can be accomplished become more limited.

What are we doing to improve? The department reviews the annual maintenance plans of companies operating on state-owned railroad track and discusses opportunities to upgrade rail track and structure conditions. In 2012, the department funded a comprehensive inventory of state-owned rail bridges to develop a better understanding of load carrying capacities and improvement needs. This study is expected to be completed in 2014.

Wisconsin Department of Transportation MAPSS Performance Improvement



Preservation: Airport pavement condition

Report Date: January 2013

Data Frequency: Annual (Calendar Year)

Division: Transportation Investment Management

Why is it important? Pavement condition ratings are a primary indicator of the long-term structural health, not only of our state highway system, but for our airport system as well. The department evaluates pavement conditions at the 98 publicly-owned airports. This includes airports of all sizes including the state's largest, General Mitchell International Airport.

Performance measure target: The department's goal is to have 90 percent of airport pavement rated fair or above.

Figure: Percent of Airport Pavement Rated Fair or Above



How do we measure it? The Pavement Condition Index (PCI) method is used for rating pavement condition based on visual signs of pavement distress, such as cracks, ruts and potholes. The PCI is a numerical rating that ranges from 0 to 100, with 100 being a pavement in excellent condition. The average compiled for each calendar year includes an assessment of all runways, taxiways and aprons at the 98 publicly-owned airports.

How are we doing? In 2010, 92 percent of Wisconsin's airport pavements, including all runways, taxiways and aprons, rated at fair or better. Department measurements have previously been done on a rotating schedule so a one-to-one comparison to historical data doesn't exist; however, the pavement condition data is similar to previous years. Data was not collected in 2011. In 2012, 90 percent of Wisconsin's airport pavements, including all runways, taxiways and aprons, rated at fair or better. Although there was a slight decrease in condition, we are still meeting the goal.

What factors affect results? Airports are locally-owned and decision making regarding improvements is handled at the local level. Challenges are presented when pavement is in need of maintenance and rehabilitation, but the airport owner has prioritized other projects.

What are we doing to improve? The department has developed critical PCI values that provide a threshold PCI value for pavements according to pavement use and airport classification. This allows the department to prioritize projects according to their importance and provides a "trigger" value to begin planning and budgeting for future pavement projects. The goal is to keep these pavements at or above their trigger values. Pavement maintenance, rehabilitation or reconstruction must be addressed and the airport must have pavements above the critical PCI value before airports can receive federal or state aid for other projects.

Wisconsin Department of Transportation MAPSS Performance Improvement



Preservation: State highway maintenance

Report Date: January 2013

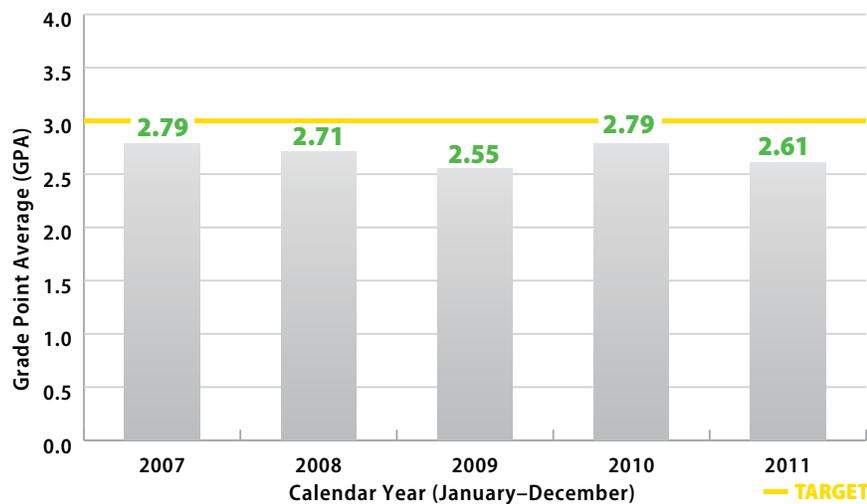
Data Frequency: Annual (Calendar Year)

Division: Transportation System Development

Why is this important? The department strives to keep our highway system safe and fully functional. This supports Wisconsin's vision of a transportation system that maximizes the safe and efficient movement of people and products, enhances economic productivity and minimizes the impacts to the natural environment.

Performance measure target: The department's goal is to maintain a 3.0 out of 4.0 grade point average (GPA) of 29 features evaluated including roadway shoulders, drainage features, roadside elements, and traffic control and safety devices.

Figure: Grade Point Average for the Maintenance Condition of State Highways



How do we measure it? Condition data is collected each fall as part of a field review process. Rating teams composed of region maintenance coordinators and county patrol superintendents rate a random sample of 1,200 one-tenth mile segments around the state. Features are assigned different grading curves. Maintenance assessments of critical safety, safety/mobility, ride/comfort, stewardship and aesthetic features are completed each calendar year. This data identifies areas to focus on improving such as reducing shoulder drop-off, removing hazardous debris from shoulders, maintaining visible center line and edge line markings and providing more visible, longer-lasting traffic signs.

How are we doing? Conditions declined slightly in 2011, as funding levels fell back to historic levels after American Recovery and Reinvestment Act (ARRA) projects were completed. The 2011 grade point average of 2.61 is between the 5-year high of 2.79 (in 2007 and 2010) and the 5-year low of 2.55 (in 2009).

What factors affect results? The annual GPA is impacted by baseline conditions, maintenance budget levels, maintenance policies, winter maintenance costs and the improvement program. Conditions declined in 2008 and 2009 as winter maintenance activities used more of the available maintenance funding. Conditions improved in 2010, based largely on the accelerated improvement program funded by ARRA. Maintenance conditions declined slightly in 2011 as funding levels fell back to historic levels.

What are we doing to improve? Management strategies include leveraging the improvement program, increasing the cost efficiency of winter maintenance activities, communicating statewide maintenance targets to regions and linking targets to county routine maintenance agreement activities.

Wisconsin Department of Transportation MAPSS Performance Improvement



Preservation: Material recycling

Report Date: January 2013

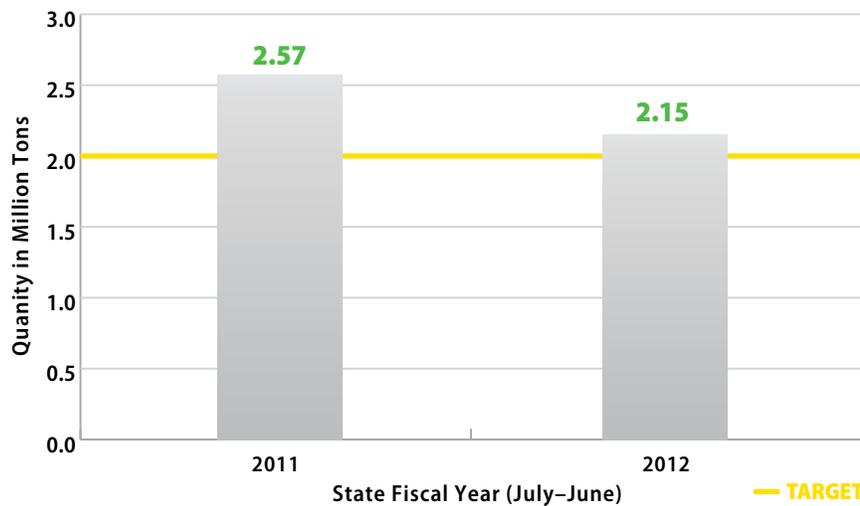
Data Frequency: Annual (State Fiscal Year)

Division: Transportation System Development

Why is it important? The department strives to incorporate environmental sustainability or green initiatives in its vision for providing a safe and efficient transportation system. This includes incorporating the use of recycled materials in improvement projects to lessen the impact on Wisconsin's environment and to preserve resources for future generations.

Performance measure target: The department's goal is to incorporate 2.0 million tons of recycled materials into projects and to continually strive to improve by increasing the tonnage and finding new materials to recycle.

Figure: Million Tons of Recycled Materials Used in Projects



How do we measure it? Recycled material quantities are calculated based on summation of total quantities for the year for bid items for which recycled material is typically used, multiplied by frequency of use and unit quantity estimates for each recycled material. The total of the estimates is added up for each state fiscal year.

How are we doing? The department demonstrates ongoing leadership in conserving resources, minimizing waste, keeping materials out of landfills, and avoiding Greenhouse Gas emissions. Almost all projects incorporate recycled materials, the largest type being recycled concrete (1.2 million tons) followed by reclaimed asphaltic pavement in hot mix asphalt and in base course. For every ton of fly ash that has been used to replace a ton of Portland cement, the department saves 1 ton of CO₂ and 1 million BTUs of energy. The amount of recycled asphalt pavement (RAP) we use annually would pave a two-lane highway, 2" thick from Kenosha to Superior.

What factors affect results? The department wants to encourage the use of recycled materials and has written project specifications to allow recycled materials. Ultimately, the contractor makes the decision on the materials to use based on market conditions. The economy, fuel costs and landfill tipping fees impact the cost effectiveness and attractiveness of recycling.

What are we doing to improve? The department continues to research and evaluate both new material as well as new ways to incorporate and maximize the use of recycled materials in projects at a lower cost. Any use of recycled material needs to provide equal or better performance of the end product in which the material was incorporated.

Wisconsin Department of Transportation MAPSS Performance Improvement



Safety: Traffic fatalities

Report Date: January 2013

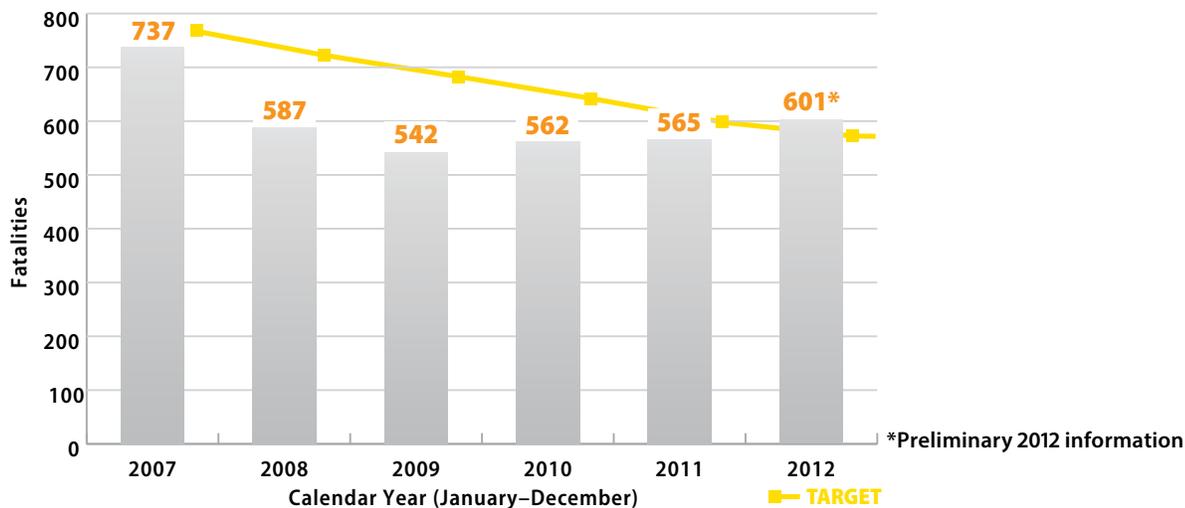
Data Frequency: Quarterly (Calendar Year)

Division: State Patrol

Why is this important? Any preventable traffic death on Wisconsin's roadways is one too many. Each fatality is a tragedy—a person who will not be returning home.

Performance measure target: For each calendar year, the department seeks to reduce traffic fatalities by five percent from the prior five-year rolling average. This supports the department's over-arching safety goal of zero deaths on Wisconsin roads (Zero in Wisconsin).

Figure: Number of Traffic Fatalities



How do we measure it? The measure uses traffic fatality data collected through the national Fatality Analysis Reporting System (FARS). The information is not considered final until approximately June of each year as data is reported late or needs verification.

How are we doing? Wisconsin experienced a dramatic reduction in traffic fatalities on its roads in recent years, especially between 2008 and 2011 during which time the state had four consecutive years of less than 600 annual fatalities for the first time since 1924 to 1927. Unfortunately there was a 6 percent increase in reported traffic fatalities in 2012. Motorcycle-related fatalities increased by 34 percent in 2012. There was also a 34 percent increase in vehicle passenger fatalities, with many instances of multiple fatalities resulting from crashes. Even though Wisconsin had 98 fatality free days in 2012 (the five-year average for fatality-free days is 90), the 50 days on which multiple fatality crashes occurred contributed heavily to the unfortunate increase in the loss of life on the state's roadways in 2012. In many circumstances, drivers and passengers were ejected from the vehicle because they were not wearing seat belts. Wearing a seat belt is the single most effective way to prevent being ejected from a vehicle or being violently thrown around inside it during a crash.

What factors affect results? Traffic crashes are avoidable events caused by such factors as human behavior, vehicle condition and environmental surroundings. Weather can also have a seasonal impact, especially on motorcycle or bicycle-related fatalities. The largest factor and most difficult to change is the risk-taking behavior of drivers and tolerance of the public toward risky behavior.

What are we doing to improve? The department uses a combined strategy of engineering, education, enforcement and emergency response to prevent traffic fatalities, including designing safer roads and maintaining the highway infrastructure. The department has expanded the number of multi-jurisdictional High Visibility Enforcement task forces around the state to address impaired driving and seat belt use. The department is targeting speed and aggressive driving through increased use of aerial enforcement, and in partnership with agencies across the state. Over the past year, a record number of law enforcement agencies pledged to participate in seat belt and alcohol enforcement mobilizations. The department provides ongoing educational outreach to high school students to promote safe driving, use of seat belts and eliminating driving distractions, such as texting. The department also plans to continue its efforts to install center line and shoulder rumble strips and other roadway improvements in corridors with safety concerns.

Wisconsin Department of Transportation MAPSS Performance Improvement



Safety: Traffic injuries

Report Date: January 2013

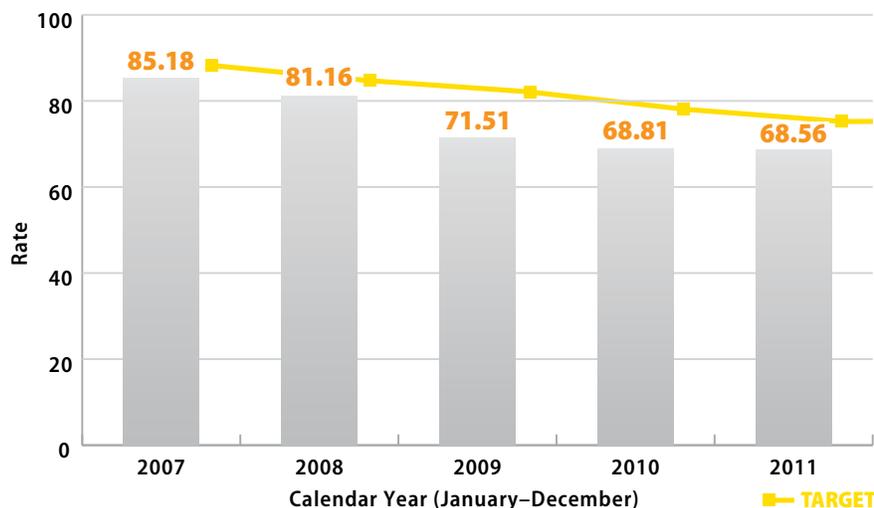
Data Frequency: Annual (Calendar Year)

Division: State Patrol

Why is this important? Each traffic crash creates the possibility of loss of life, debilitating injuries or lost income and productivity for crash victims. Any preventable traffic death or incapacitating injury is one too many.

Performance measure target: The goal of this measure is to reduce the personal injury rate from traffic crashes by five percent from the prior five-year rolling average.

Figure: Injury Rate Per 100 Million Vehicle Miles Traveled



How do we measure it? In order to calculate the personal injury rate, injuries related to vehicle crashes are calculated against vehicle miles traveled each calendar year to generate an injury rate per 100 million vehicle miles traveled.

How are we doing? The personal injury rate in 2011 was the lowest rate recorded. In calendar year 2011, there were 40,144 injuries related to crashes on Wisconsin roads. Through mid-November of 2012, there have been 33,309 crash-related injuries in Wisconsin. When calculated against vehicle miles traveled, the personal injury rate in Wisconsin in 2011 was 68.56 personal injuries per 100 million vehicle miles traveled. This is 12.49 percent below the prior five-year rolling average of 78.26. Serious injury crashes (those that result in incapacitating injuries) have declined from 3,869 in 2006 to 2,865 in 2011. Through mid-November of 2012, there were 2,532 serious injury crashes in Wisconsin.

What factors affect results? Traffic crashes are avoidable events caused by such factors as human behavior, vehicle condition and environmental surroundings. Weather can also have a seasonal impact, especially on motorcycle or bicycle-related crashes. For motorcyclists and bicyclists, the use of proper safety gear can reduce severity of personal injuries. Wearing a seat belt while in a car or truck is the single most effective way to reduce or eliminate injury in a crash. Safety and road design improvements and tougher laws can have a positive impact on crash frequency. In addition, the severity of injuries in crashes can be lessened through rapid and high-quality emergency medical response.

What are we doing to improve? The department uses a combined strategy of engineering, education, enforcement and emergency response to prevent traffic crashes and injuries, including designing safer roads and maintaining the highway infrastructure. In addition, the department has expanded the number of multi-jurisdictional High Visibility Enforcement task forces to address impaired driving and seat belt use. The department is targeting speed and aggressive driving through increased use of aerial enforcement, and in partnership with agencies across the state during the summer months on the "Summer Heat" program. Over the past year, a record number of law enforcement agencies pledged to participate in the national seat belt and alcohol enforcement mobilizations. The department provides ongoing educational outreach to high school students to promote safe driving, use of seat belts and eliminating driving distractions, such as texting. The department also plans to continue its efforts to install center line and shoulder rumble strips and other roadway improvements in corridors with safety concerns.

Wisconsin Department of Transportation MAPSS Performance Improvement



Safety: Traffic crashes

Report Date: January 2013

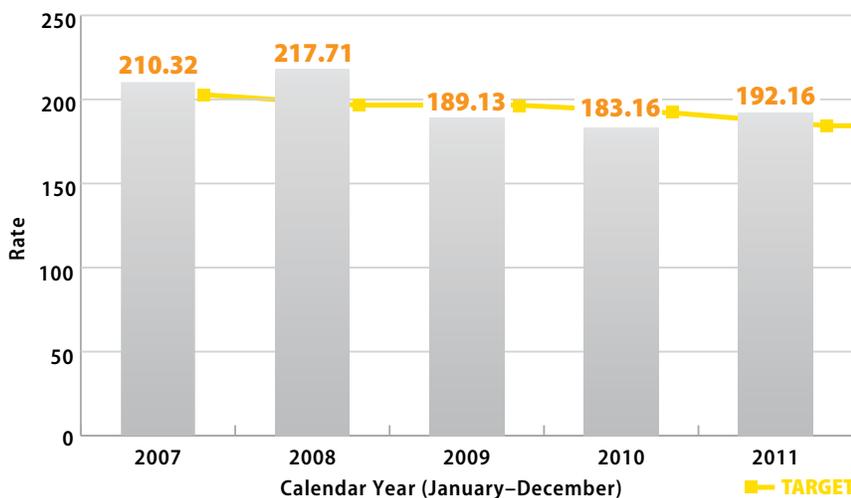
Data Frequency: Annual (Calendar Year)

Division: State Patrol

Why is this important? Each crash creates the possibility of loss of life, debilitating injuries or lost income and productivity for crash victims. Crashes on the road system also impact traffic flow and the timely movement of goods and people to their destinations.

Performance measure target: The goal of this measure is to reduce the crash rate on Wisconsin roads by five percent from the prior five-year rolling average.

Figure: Crash Rate Per 100 Million Vehicle Miles Traveled



How do we measure it? In order to calculate the annual crash rate, the total number of crashes is divided by the number of vehicle miles traveled (in hundreds of millions).

How are we doing? The crash rate in 2011 increased from the rate in 2010, which was the lowest rate recorded since 1944. In calendar year 2011, there were 112,516 total crashes (fatal crashes, injury crashes and property damage crashes) on Wisconsin roads. When calculated against vehicle miles traveled in 2011, the crash rate was 192.16 crashes per 100 million vehicle miles traveled. This is 3.87 percent below the prior five-year rolling average of 199.67.

What factors affect results? Traffic crashes are avoidable events caused by such factors as human behavior, vehicle condition and environmental surroundings. Weather can also have a seasonal impact, especially on motorcycle or bicycle-related crashes.

What are we doing to improve? The department uses a combined strategy of engineering, education, enforcement and emergency response to prevent traffic crashes and injuries. This includes designing safer roads and maintaining the highway infrastructure; educational efforts targeted on prevention and expanded enforcement campaigns in partnership with law enforcement agencies across the state. The department works to encourage drivers to stay within the speed limit, drive sober, buckle their seat belts and eliminate driving distractions.

Wisconsin Department of Transportation MAPSS Performance Improvement



Safety: Seat belt use

Report Date: January 2013

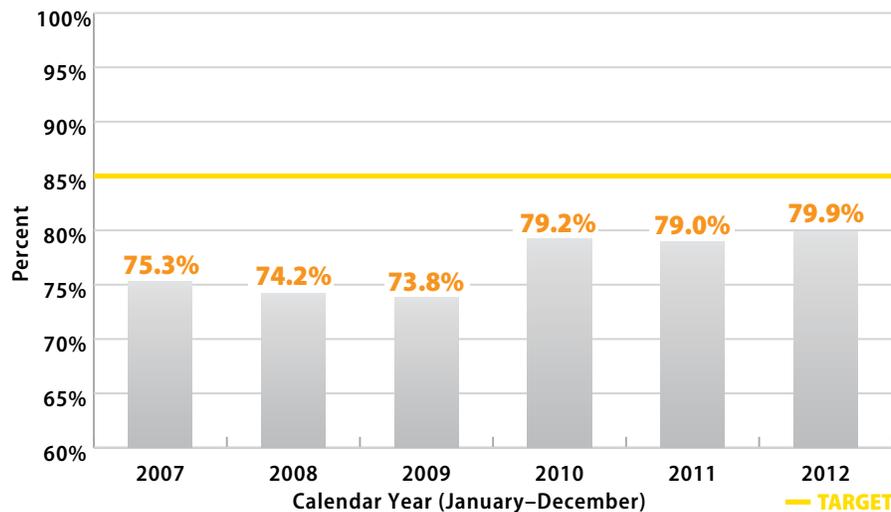
Data Frequency: Annual (Calendar Year)

Division: State Patrol

Why is this important? Wearing seat belts saves lives. Buckling a seat belt every time, on every trip, decreases the risk of being ejected or thrown about the vehicle in the event of a crash. In Wisconsin, a 10 percent increase in safety belt use would save about 44 lives and prevent 650 injuries each year. More than 50 percent of all passenger vehicle occupant fatalities in Wisconsin are unbelted. Motorists who do not use safety equipment are 12.3 times more likely to be killed than someone wearing a shoulder and lap belt at the time of a crash. The likelihood of surviving a crash, and possibly avoiding debilitating injuries, can be increased by the simple task of buckling a seat belt.

Performance measure target: The goal of this measure is to increase seat belt use to 85 percent for all passenger vehicle occupants by 2013.

Figure: Percent of Vehicle Occupants Wearing a Seat Belt



How do we measure it? Using guidelines developed by the National Highway Traffic Safety Administration (NHTSA), the department conducts an annual seat belt use survey in conjunction with the annual Click It or Ticket seat belt enforcement mobilization conducted each spring. The survey data presents a statistically representative sample of the percentage of seat belt use in Wisconsin.

How are we doing? Seat belt use reached 79.9 percent in 2012, an all time high for seat belt usage in Wisconsin. That means one in five motorists is still not buckling up—putting themselves and others at risk of serious injury or death in the event of a crash. Wisconsin still lags behind the 86 percent national average for safety belt use and behind the seat belt use of neighboring states like Illinois and Michigan which estimate safety belt use rates of more than 90 percent.

What factors affect results? Human behavior is the most important factor that affects seat belt use results. Consistent seat belt use saves lives and motorists need to be proactive in buckling their seat belts every time, on every trip, to promote their safety and the safety of others. Seat belt use is a law in the state of Wisconsin. Since 2009, it is a primary enforcement law, which means law enforcement officers can pull over and cite a motorist for not wearing a seat belt.

What are we doing to improve? Increased seat belt use is a major component of Wisconsin's Zero in Wisconsin message. The department promotes seat belt use through education and enforcement. The nationwide Click It or Ticket effort, in conjunction with NHTSA, utilizes paid advertising and enforcement to promote public awareness. Much of the educational efforts are targeted at younger drivers whose seat belt use is much lower than other age groups. The department also supports car seat fitting stations to ensure that parents and providers are instructed on how to properly install child car seats and booster seats to keep small children safe in vehicles. By buckling their seat belt every time they get in a vehicle, motorists ensure their own personal safety, as well as the safety of passengers.

Wisconsin Department of Transportation MAPSS Performance Improvement



Service: DMV wait times

Report Date: January 2013

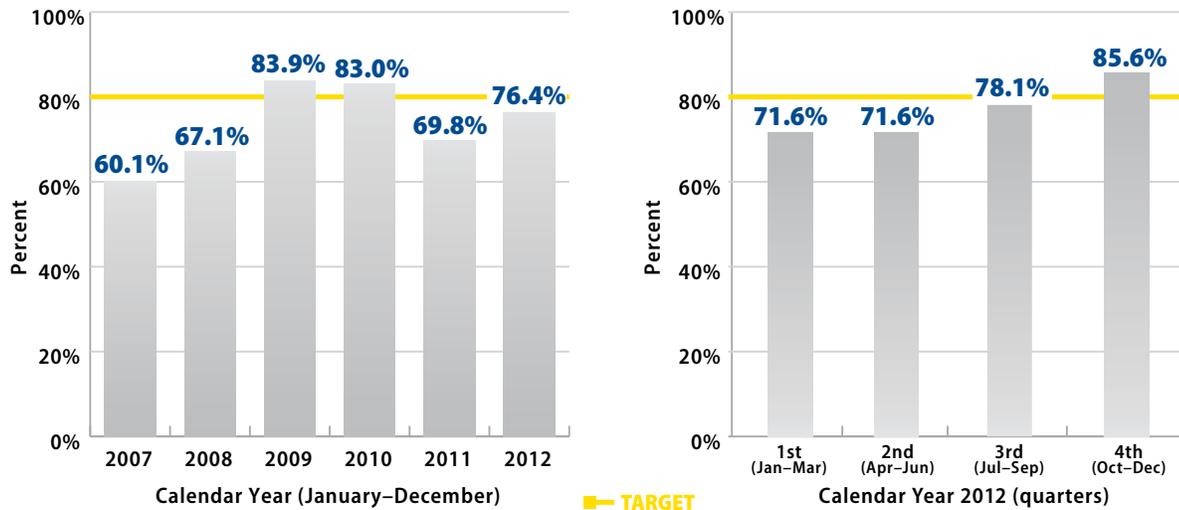
Data Frequency: Quarterly (Calendar Year)

Division: Motor Vehicles

Why is it important? For many customers, their primary contact with the department is through the Division of Motor Vehicles (DMV). While most DMV services do not require an in-person visit to a customer service center, the DMV service centers still experience large volumes of customers (more than two million transactions occur at offices each year). The DMV's goal is that customers receive quality service within a reasonable amount of time.

Performance measure target: The goal of this measure is to serve 80 percent of customers within 20 minutes of their arrival at a DMV customer service center.

Figure: Percent of DMV Service Center Customers Served Within 20 Minutes



How do we measure it? The measure counts customers who waited 20 minutes or less at service locations that are open five days per week and divides that number by the total number of customers who waited in those locations. Service locations that are open less than five days per week are not included in the measure because they do not have enough customers or staff for a ticketed waiting system (the DMV's 30 five-day offices serve approximately 90 percent of customers while the remaining 62 offices handle the remainder). Typically, wait times at these non-ticketed offices are shorter than at the busier five-day offices that are measured.

How are we doing? Wait times were longer than desired in 2011 because of an unusually large number of retirements coupled with limitations on hiring that had been in place prior to 2011. Beginning in late summer 2011, the DMV has been hiring staff and training them as quickly as possible. Following a year of experience for these employees, the DMV has exceeded its target in the final quarter of 2012 and expects to continue this level of service through 2013.

What factors affect results? Factors affecting this measure are staff vacancies and absences, computer system reliability and the day of the week/month (because demand for services varies). More self-service options being available by phone and on-line also affect the demand for counter service.

What are we doing to improve? New online service and renewal options help to minimize the need for customers to visit a customer service center.

Wisconsin Department of Transportation MAPSS Performance Improvement



Service: DMV electronic services

Report Date: January 2013

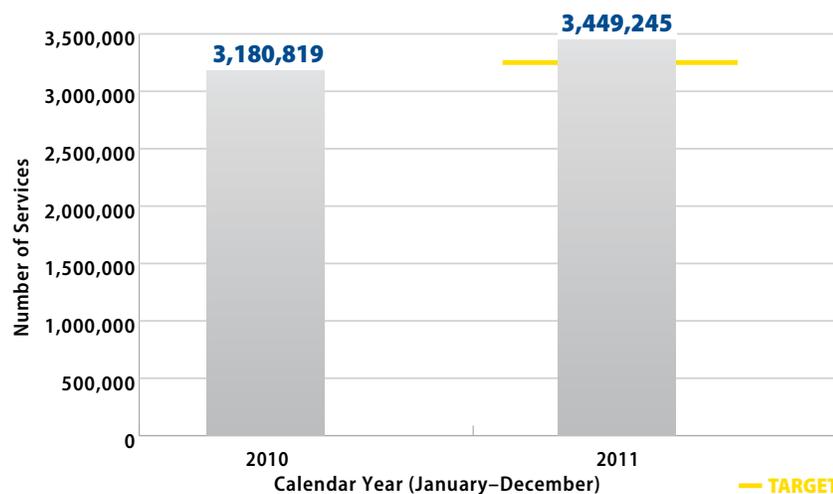
Data Frequency: Annual (Calendar Year)

Division: Motor Vehicles

Why is it important? The goal of this measure is to increase the number of customer performed electronic transactions by two percent each calendar year. This will further DMV's efforts of shifting from manual work by DMV staff to providing customer self-service options through automation. Using technology to improve the quality and decrease the cost of services has and will continue to be a priority for DMV.

Performance measure target: The goal of this measure is to increase the number of services that are provided electronically by two percent each calendar year (3.24 million target in 2011). Our goal is also to represent a shift from manual work by DMV staff to self-serve through automation.

Figure: Total Electronic Services Performed by Customers



How do we measure it? The measure is a count of all electronic customer transactions performed annually.

How are we doing? In 2011, the department exceeded its two percent goal. There was a 7.8 percent increase in electronic service transactions performed by customers between 2010 and 2011. In 2010, DMV offered 22 services electronically; with five more added in 2011 to bring the total to 27 customer services available electronically.

What factors affect results? The total number of DMV interactions with customers varies from year to year for a variety of reasons: changes to the economy, the length of specific products (e.g., some registrations are biennial rather than annual), and changes in laws that can alter demand for particular services. Typically, DMV responds to more than 5.5 million requests for service in-person and electronically annually.

What are we doing to improve? The department continues to create new electronic services and encourages users to complete transactions online. Public awareness campaigns and expanded use of social media have helped to publicize the availability of DMV's electronic service options.

Wisconsin Department of Transportation MAPSS Performance Improvement



Service: DMV driver license road test scheduling

Report Date: January 2013

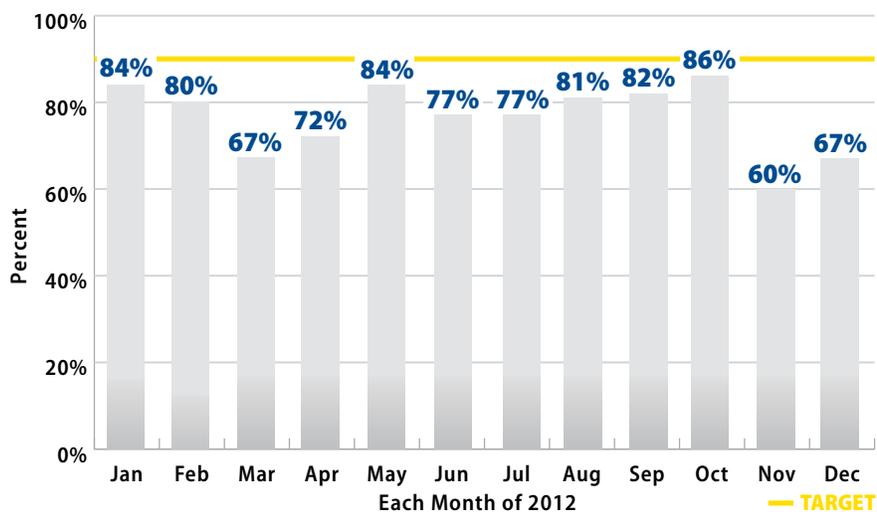
Data Frequency: Quarterly (Calendar Year)

Division: Motor Vehicles

Why is it important? Customers who are eligible to schedule a Class D skills test should be able to find adequate appointment slots available at the same location the instruction permit was processed. A lack of local availability upon eligibility creates an inconvenience for customers who must travel great distances to take a road test or delay scheduling.

Performance measure target: To have enough class D skills tests available to meet 90 percent of the estimated demand four weeks before the customer's eligibility date.

Figure: Percent of DMV Road Test Demand Met Four Weeks in Advance



How do we measure it? Applicants under the age of 18 must hold their Instruction Permit for six months before they are eligible to take a road skills test. By looking at the number of class D Instruction Permits issued to customers under the age of 18 each week at each DMV office, and applying a multiplier to account for adult permits as well as a statewide fail rate, the DMV is able to estimate the demand for road skills tests needed at each office six months into the future. Four weeks before the actual testing week, the DMV compares the number of scheduled and available tests to the estimated demand, and calculates the demand that is not served at each DMV office and the total statewide demand not being met. The weekly data is then combined for the monthly report. If a DMV office offers more tests than the estimated demand, this is not counted toward meeting another office's demand.

How are we doing? This is a new measure that began in 2012 and has established a baseline for evaluating future trends in skills test availability. The first year of data reveals seasonal fluctuations in meeting demand, such as a decline in availability during the holiday season. Early results suggest that the DMV's new demand forecasting methods are working. From 2011 to 2012, there was a 13.6 percent increase in the percent of customers who received their license at the same location where the permit was issued. Additionally, there has been a reduction in legislative contacts and complaint letters regarding skills test availability.

What factors affect results? While there are pre-requisites for scheduling a Class D skills test, it is ultimately up to the customer to schedule their test at the location and date that best meet their needs. Some customers hold a permit beyond the minimum requirement, and some customers feel more comfortable taking a test in one location over another. These personal preference factors cannot be accounted for in the established goals.

What are we doing to improve? Used as a leading indicator to allocate staff resources, the DMV continues to explore ways to use this measure to make informed resourcing decisions. With projections available 6 months in advance, DMV ties this information to the availability of time off and adjusts resources as needed (temporarily or permanently) to respond to the weekly fluctuations in estimated demand levels. Management follows up with offices not meeting the goals to ensure the estimated demand levels are understood and to identify circumstances that influence performance.

Wisconsin Department of Transportation MAPSS Performance Improvement



Service: On-road traffic information

Report Date: January 2013

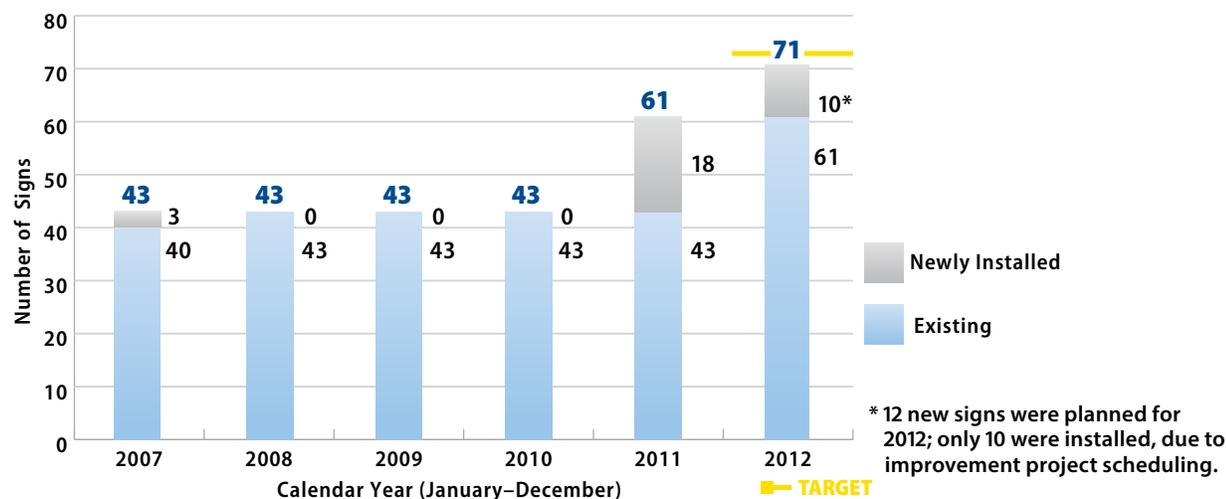
Data Frequency: Annual (Calendar Year)

Division: Transportation System Development

Why is it important? Electronic signs installed along freeways provide information to travelers. Some are used to display travel times while others display incident and travel information. The signs allow travelers to adjust their routes and warn of coming congestion or slower speeds. This helps to keep travel safe—know before you go. Electronic message signs also help the state manage the freeway system efficiently.

Performance measure target: The goal of this measure is to meet the number of electronic message signs identified in the department’s Transportation Operations Infrastructure Plan. The goal for 2013 is to install 20 more signs for a total of 91 statewide.

Figure: Number of Electronic Message Signs



How do we measure it? The measure is a count of the total number of electronic message signs installed on the freeway system.

How are we doing? At the end of 2011, there were 61 electronic message signs in place. A total of 43 signs were installed prior to 2007. The trend chart shows minimal installations until 18 signs were installed in 2011 and an additional 10 signs in 2012. Due to improvement project scheduling, the department did not achieve the goal documented in the Transportation Operations Infrastructure Plan for 2012 of 12 signs.

What factors affect results? New installations of electronic message signs are identified in the department’s Transportation Operations Infrastructure Plan and have a direct relation to the department’s improvement program. As road construction projects begin, planned electronic message signs are being placed.

What are we doing to improve? The department is continuing to install electronic message signs on major freeways in order to provide travelers with accurate travel information. The department will continue to implement and maintain electronic message signs that are strategically located in those areas where the information is most needed to make travel safe and efficient. The department continues to investigate new cost-effective sign technologies to provide the highest value on-road traffic information in the most efficient manner.

Wisconsin Department of Transportation MAPSS Performance Improvement



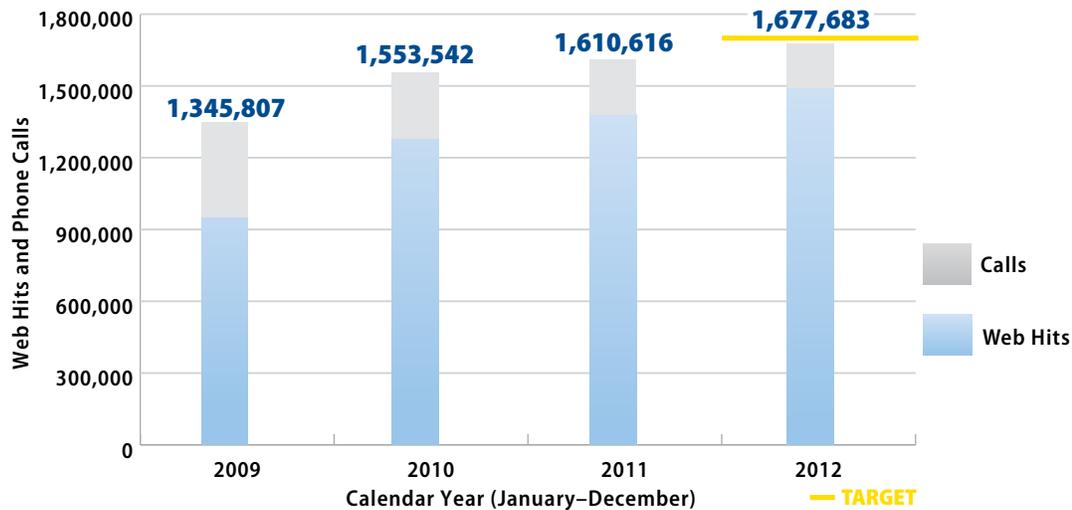
Service: Phone and web traffic information

Report Date: January 2013 **Data Frequency:** Monitored continuously and reported quarterly (January, April, July and October) and annually (Calendar Year) **Division:** Transportation System Development

Why is it important? Travelers are safer when they know what to expect for travel times and travel conditions—know before you go. Wisconsin’s 511 travel information system provides information via the web and telephone. The department utilizes the 511 phone and web systems to provide information on traffic issues on major Wisconsin roads and Interstates. The earlier problems are detected, the sooner an incident response can occur. This helps to keep traffic flowing and all travelers safe.

Performance measure target: The goal of this measure is to increase the use of the 511 web system by 5 percent every year (1.69 million target in 2012).

Figure: Number of 511 Web Hits and Phone Calls



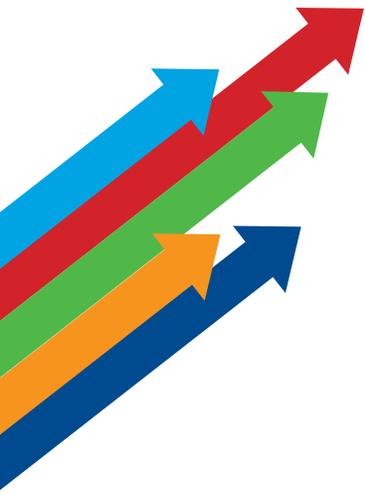
How do we measure it? The 511 system automatically tracks the number of telephone calls and web visits. The system was launched in December 2008. Complete calendar year data became available beginning in 2009.

How are we doing? In recent years, there have been fewer 511 calls, but significantly more web visits. In 2012 the call volume decreased by 21 percent while the web volume increased by 8.5 percent compared to 2011 numbers. Some factors affecting the lower measure are detailed below.

What factors affect results? Weather, special events and traffic crashes can generate large telephone call and web visit volumes. Equally, if driving conditions are relatively stable, call and web volumes tend to decrease. Customers that register for 511 alerts do not visit the site.

The winter storm that occurred on December 20, 2012 triggered the highest number of visits to the 511 website since its inception in 2008. In fact, the usage was 19 percent higher than any other recorded event.

What are we doing to improve? The department continues to monitor how people are using 511 and is working to upgrade the system to make it more user-friendly and reliable. In 2012, the department launched the 511 Projects web site, which provides important details and traveler information on current large construction projects from around the state. The department will continue to promote the 511 system as the source of travel information.



Wisconsin Department of Transportation
MAPSS Performance Improvement

Appendix A:
additional performance measures

Mobility	
Accountability	
Design on time	30
Preservation	
Safety	
Electronic crash reporting	31
Service	
DMV mailed applications for vehicle registration renewals	32

Wisconsin Department of Transportation MAPSS Performance Improvement



Accountability: Design on time

Report Date: January 2013

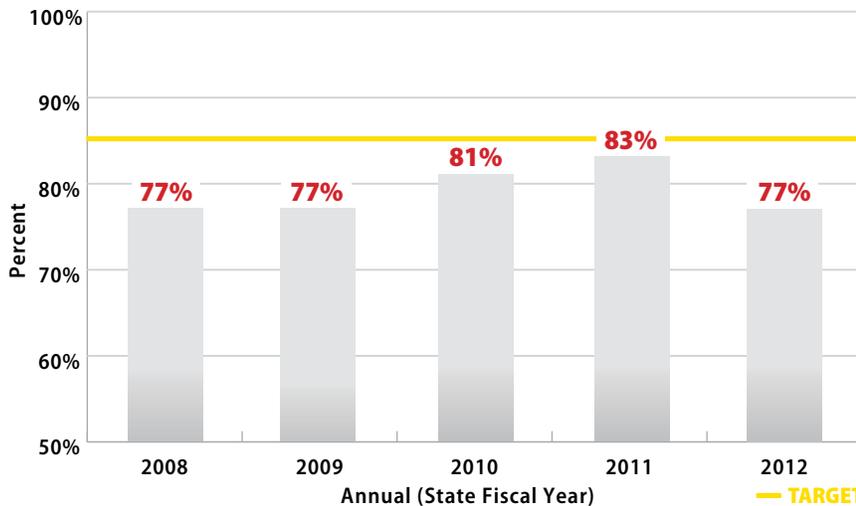
Data Frequency: Annual (State Fiscal Year)

Division: Transportation System Development

Why is it important? Design on time measures the ability of the department to deliver a project in the fiscal year that it is scheduled. This is important because it ensures we meet delivery goals and succeed in effectively using allocated dollars in delivering needed transportation projects. Delivering on time also results in program stability because plans are delivered when anticipated and contingency plans do not need to be implemented.

Performance measure target: 85 percent.

Figure: Percentage of Projects Designed by the Scheduled Due Date



How do we measure it? The percent of projects designed on time measures the proportion of projects awarded for contract by the proposed delivery date.

How are we doing? In 2012 the Department changed its method of computing this measure. As a result we have identified opportunities for process improvements to increase our ability to consistently produce designs on time to be able to accomplish this goal in the future.

What factors affect results? Many factors impact project timeliness including: the amount of resources available internally, inflationary periods, external agencies review processes, environmental issues, the ability to move utilities and purchasing real estate.

What are we doing to improve? The department has developed a performance management system and active management oversight process to proactively review monthly results to keep projects on track for delivery goals. The department uses project management tools and processes to ensure that project delivery timelines are reasonable and achievable. If a project does not accomplish the project delivery timelines, staff will review the project's design and implementation to see what caused the delay. If the delay was unnecessary, best practices will be developed to avoid the delay in the future.

Wisconsin Department of Transportation MAPSS Performance Improvement



Safety: Electronic crash reporting

Report Date: January 2013

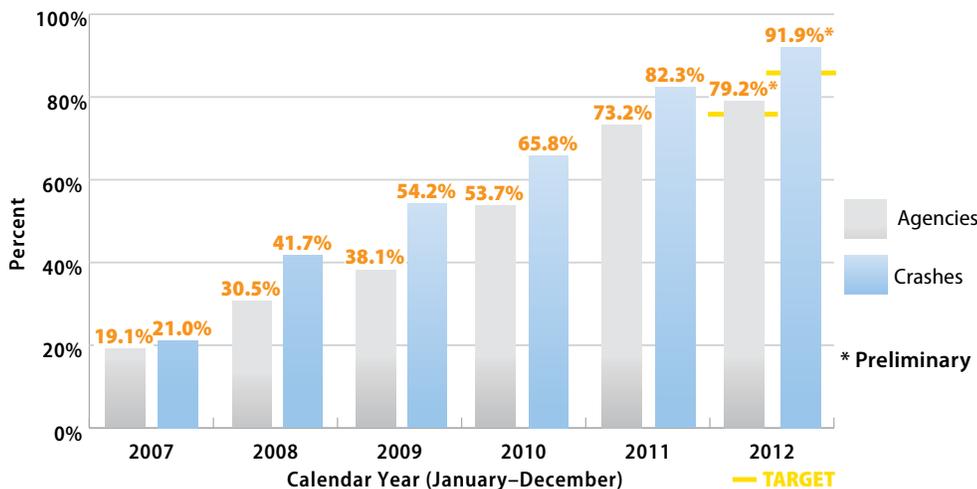
Data Frequency: Quarterly (Calendar Year)

Division: State Patrol

Why is it important? The federal government provides funding to states to help address traffic safety challenges. Timely data is needed at the state level to effectively allocate resources to local law enforcement agencies and traffic safety partners. Electronic reporting of crashes provides accurate, timely, detailed, and complete highway safety information used to analyze where traffic safety problems are the greatest and allocate funding to address them as soon as possible. An automated crash reporting system expedites the availability of data used to identify and address highway safety concerns. Electronic reporting of crashes also eliminates the need for Division of Motor Vehicles staff to re-key the information.

Performance measure target: The department has a Traffic Records Coordinating Committee that establishes goals for electronic crash reporting, and those goals have consistently been achieved over the reporting period. In 2012, the target was to have 76 percent of law enforcement agencies reporting crashes electronically and 84 percent of crashes reported electronically. By January 1, 2015, the goal is for 100 percent of crash reports to be completed electronically. This measure will be retired upon full implementation.

Figure: Percent of Agencies and Crashes Reported Electronically



How do we measure it? The percent of agencies is calculated as the number of agencies reporting crashes electronically divided by the total number of agencies using information provided in hard copy or electronic form submitted to the Wisconsin Department of Transportation. The percent of crashes is calculated as the number of electronic crash reports submitted divided by the total number of crashes reported. This information is updated quarterly in January, April, July and October to reflect year-to-date figures.

How are we doing? WisDOT continues to increase the percentage of agencies and crashes reported electronically and has met the targets for percent of agencies and crashes every year since it began the initiative. The department exceeded the calendar year 2012 annual target to have 76 percent of law enforcement agencies submitting electronic crash reports and for 84 percent of crashes to be reported electronically. The department is on track to meet the target of 100 percent electronic reporting by 2015.

What factors affect results? The time line for the department to successfully convert the crash report form to an electronic method and agencies' use of this format are the major determinants. Some law enforcement agencies, mostly smaller agencies, are not currently reporting crashes electronically. The department is reaching out to those agencies to offer funding to assist with their conversion to electronic crash reporting. While the department is making steady progress, it will take some additional efforts to successfully convert the remaining agencies submitting crash reports in paper format. Some agencies that report crashes electronically do not currently report all of their crashes electronically. The department is making efforts to work with those agencies to fully convert to electronic reporting.

What are we doing to improve? The department targets federal funds to local law enforcement agencies to cover the cost of equipment for agencies to report crashes electronically. The department does outreach to encourage agencies to convert to electronic reporting or fully implement electronic reporting. The motor vehicle form used to report crash information is scheduled to become electronic as part of a web-based product by 2014. This will facilitate the move to 100 percent electronic reporting of crash information.

Wisconsin Department of Transportation MAPSS Performance Improvement



Service: DMV-mailed applications for vehicle registration renewals

Report Date: October 2012

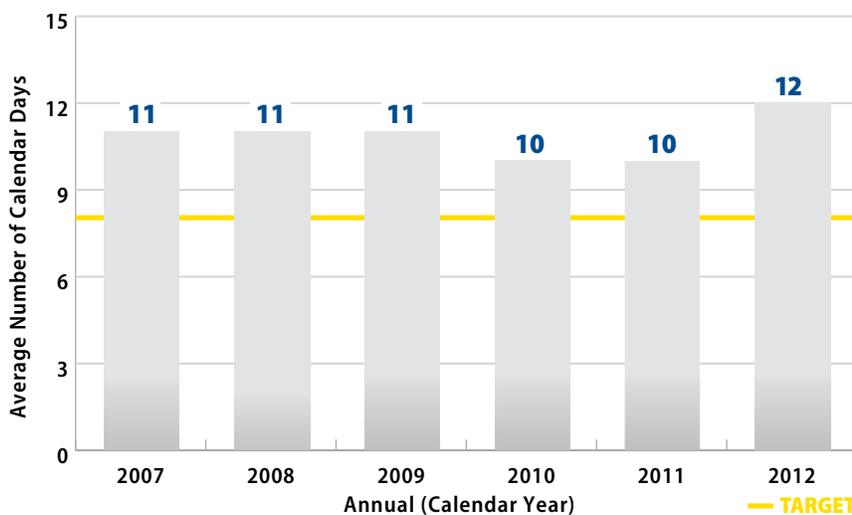
Data Frequency: Quarterly (Calendar Year)

Division: Motor Vehicles

Why is it important? The Division of Motor Vehicles (DMV) customers' expectation is to receive a product within a reasonable amount of time. The certificate of registration and license sticker is needed to show compliance with state law. This measure focuses on the DMV mailed applications for vehicle registration renewals requiring manual processing.

Performance measure target: To deliver certificates of registration and license stickers for all renewals within eight days or less of receipt of the mailed application and fee. Actual days are also converted into a customer service index (CSI). For this measure, a lower average number of days and higher CSI are better.

Figure: Average turn-around for DMV-mailed vehicle registration renewals



How do we measure it? Mailed registration renewal forms that are not completed using automated processes are stamped with a received date and the current calendar date is compared to the stamped date of the applications being worked on. In addition to this backlog date, additional days are added for DOA inserting and estimated mail delivery time. The average number of days over a three month period is used to determine the CSI based on the scale below. This measure will be updated quarterly in January, April, July and October.

0 to 4 days = 10	5 to 6 days = 9	7 to 8 days = 8	9 to 10 days = 7	11 days = 6	
12 days = 5	13 days = 4	14 days = 3	15 days = 2	16 days = 1	17 days and over = 0

How are we doing? The average turnaround time for 2012 was 12 days, representing an overall decrease in the customer service index from previous years.

What factors affect results? The seasonal expiration of heavy vehicles in December attributed to some delays carrying over into January. Other factors include training new staff (which requires that current staff devote some time to auditing the work of trainees) and using regular staff for testing new programs (Title to Lien holder, eMV Public, Customer Merge/Purge, etc).

What are we doing to improve? Bureau of Vehicle Services supervisors and lead workers meet weekly to review the performance measures and reassign available resources to address the most critical needs. Some Bureau of Field Service offices are receiving renewal applications delivered by mail to process. New staff being trained should begin to contribute soon, while freeing up regular staff for their normal work assignments. Several projects are winding down that will also allow staff to return to their normal duties.

Mission

Provide leadership in the development and operation of a safe and efficient transportation system.

Vision

Dedicated people creating transportation solutions through innovation and exceptional service.

Wisconsin Department of Transportation



Values

Accountability

Being individually and collectively responsible for the impact of our actions on resources, the people we serve, and each other.

Attitude

Being positive, supportive and proactive in our words and actions.

Communication

Creating a culture in which people listen and information is shared openly, clearly, and timely—both internally and externally.

Excellence

Providing quality products and services that exceed our customers' expectations by being professional and the best in all we do.

Improvement

Finding innovative and visionary ways to provide better products and services and measure our success.

Integrity

Building trust and confidence in all our relationships through honesty, commitment and the courage to do what is right.

Respect

Creating a culture where we recognize and value the uniqueness of all our customers and each member of our diverse organization through tolerance, compassion, care and courtesy to all.

Teamwork

Creating lasting partnerships and working together to achieve mutual goals.

MAPSS
Performance
Improvement



Mobility
Accountability
Preservation
Safety
Service



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