



# Connecticut Department of Transportation Quarterly Performance Measures Summary

2013 Quarter 1 (January 1 to March 31)

**Legend**

- ▲ Performance is trending in positive direction
- Performance is relatively constant
- Performance is trending in a negative direction
- ✓ Target has been met
- - - Target Line
- Trend Line

Performance Measure	Result	Period	Target	Trend / Score	Analysis of Trend
Rate of Annual Highway Fatalities per 100 million vehicle miles traveled (VMT), CTDOT	0.71	CY11	0		In 2011, Connecticut's reported fatality rate dropped to 0.71 fatalities per 100 million vehicle miles traveled. The national average is 1.10. The 3 year rolling average is 0.81.
Rate of Annual Highway Fatalities per 100,000 population	6.14	CY11	0		In 2011, there were 207 fatal motor vehicle crashes in which 220 persons were killed, including drivers, passengers, pedestrians and cyclists. 36 were motorcycle fatalities.
Percent of Seat Belt Usage	86.8%	CY12	90%		Seatbelt use has declined in the year but remains close to the target of 90%. With the kickoff of this year's Click-it-or-Ticket campaign, the trend for the rate of seatbelt use is expected to show a change to a positive direction.
Percent of NHS Roads with Good Ride Quality	52.2%	CY12	Increase Percentage		The percentage of Connecticut's NHS Routes rated as having good ride quality has gradually been improving. The target is to continue to increase the percent of roads in good condition by implementing pavement preservation principles and fully utilizing CTDOT's Pavement Management System.
Percent of Entire Network with Good Ride Quality	20.2%	CY12	Increase Percentage		Ride quality of Connecticut's entire state maintained roadway network has remained relatively consistent. The entire roadway network includes both NHS and non-NHS roadways that are the maintenance responsibility of the Connecticut DOT. As shown in this graph, when the non-NHS roadways are factored in, the percent of the roads with good ride quality is reduced significantly.
Percent of CTDOT Roadway Bridges in a State of Good Repair	92%	CY11	95%		The percent of bridges in a State of Good Repair (SGR) has remained constant since 2008. It is anticipated that that the percent of bridges in a State of Good Repair will increase in the next few years. The Department has recently allocated additional resources into bridge maintenance projects to try to reverse CTDOT's trend and align the Department with national trends of yearly increases in the number of bridges that are identified as being in a SGR.



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Number of Bridge Work Items Completed	224	CY13-Q1	Maximize Completion of Work Items		<p>▲ Preferred Trend</p> <p>The number of bridge work items completed has outnumbered those received for the 1<sup>st</sup> quarter of 2013.</p>
Number of Backlogged Bridge Work Items	4000	CY13-Q1	Strive for Zero Growth in Backlog		<p>▼ Preferred Trend</p> <p>The number of backlogged bridge work items has declined since the first quarter of 2012 due to an increase in funding to hire additional contractors using the Bridge Repair Unit on call contract.</p>
Percent of Funds Expended for Bicycle/Pedestrian Access	1.72%	FY12	1%		<p>▲ Preferred Trend</p> <p>Forty-one projects awarded in SFY2012 include elements for pedestrians or bicyclists, such as sidewalks, audible pedestrian signals, push buttons, signs, pedestrian/bicycle trails, and ramps. Total dollars being expended for these items equals \$11.2 million, which was approximately 1.7 percent of total funds awarded for the construction, maintenance and repair of roads in the state. The 1% target, established by Public Act No. 09-154 in 2009, has been achieved each year and the Department will continue to strive to exceed this target on an annual basis.</p>
Mean Distance Between Failures (Miles) - Locomotives	29,587	CY13-Q1	35,000		<p>▲ Preferred Trend</p> <p>MDBF for locomotives on the New Haven Line was slightly below the target this quarter but the latest data shows the trend continuing in a positive direction.</p>
Mean Distance Between Failures (Miles) - Coaches	233,923	CY13-Q1	290,000		<p>▲ Preferred Trend</p> <p>MDBF for coaches on the New Haven Line dropped below the target this quarter but the latest data shows the trend continuing in a positive direction.</p>
Mean Distance Between Failures (Miles) - Electric Multiple Unit (EMU) M2	103,941	CY13-Q1	80,000		<p>▲ Preferred Trend</p> <p>MDBF for the fleet of M2 EMU's on the New Haven Line surpassed the target this quarter and the latest data shows the trend continuing in a positive direction. The M2 EMU fleet is being retired as the new M8 EMU's are placed in service.</p>



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Mean Distance Between Failures (Miles) - Electric Multiple Unit (EMU) M4	38,649	CY13-Q1	60,000		MDBF for the fleet of M4 EMU's on the New Haven Line drop sharply over the last 2 quarters and fell below the target. Even with this drop, the overall trend is continuing in a positive direction. The M4 EMU fleet is being retired as the new M8 EMU's are placed in service.
Mean Distance Between Failures (Miles) - Electric Multiple Unit (EMU) M6	76,649	CY13-Q1	60,000		MDBF for the fleet of M6 EMU's on the New Haven Line surpassed the target this quarter, but data shows the trend over the last 5 years is moving in a slightly negative direction. The M6 EMU fleet is being retired as the new M8 EMU's are placed in service.
Mean Distance Between Failures (Miles) - Electric Multiple Unit (EMU) M8	253,256	CY13-Q1	200,000		The 200th M-8 rail car has been put into service on the New Haven Line, marking the halfway point for the investment program that began in 2009 when 405 cars were ordered. Deliveries continue at the rate of about 10 cars per month. The MDBF for the M8 fleet has surpassed the target for this quarter and continues to trend in a positive direction.
Percent of Rail On-Time Performance (OTP)-New Haven Line (NHL)	96.6%	CY13-Q1	97%		This quarter the NHL OTP fell just short of the target. Though the trend over the last 5 years is relatively consistent, data shows it is moving slightly in the negative direction. The NHL is one of the most reliable heavy-rail commuter services in the U.S..
Percent of Rail On-Time Performance (OTP)-Shore Line East (SLE)	96.1%	CY13-Q1	95%		This quarter the OTP for the SLE met the target of 95%. Though the trend over the last 5 years is relatively consistent, data shows it is moving slightly in the negative direction.
Number of Rail Passengers New Haven Line (NHL)	9,127,795	CY13-Q1	9,414,849		Ridership on the NHL this quarter did not meet the calculated target and was slightly lower than the result for the same quarter last year. However, the trend over the last 5 years is moving in the positive direction.



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Number of Rail Passengers Shore Line East(SLE)	151,380	CY13-Q1	152,381		Ridership on the SLE this quarter did not quite meet the calculated target and was slightly lower than the result for the same quarter last year. However, the trend over the last 5 years is moving in the positive direction.
Average Miles Between Road Calls (Bus)	21,435	CY13-Q1	5,000		FTA has redefined the definition of roadcalls. The new definition was implemented in February. New targets will be calculated this calendar year
Average Age of Bus Fleet (State)	6.1	CY12	6		The expected life of heavy-duty transit buses is 12 years. The State's target is a fleet with an average in-service age of six years. Older buses tend to require a higher level of maintenance to keep them operating efficiently and reliably. Variability of procurement cycles will cause variances from the goal
Average Age of Bus Fleet (Transit Districts)	8.4	CY12	6		The expected life of heavy-duty transit buses is 12 years. The State's target is a fleet with an average in-service age of six years. Older buses tend to require a higher level of maintenance to keep them operating efficiently and reliably. Variability of procurement cycles will cause variances from the goal.
Number of CTTransit Passenger Trips	6,531,162	CY13-Q1	6,250,000		Service was significantly affected by a severe winter storm resulting in the total suspension of service for two and a half days and consequently a decrease in ridership for this quarter.
Percent of Agreements Executed in Under 60 Days	55.6%	FY13-Q3	100%		The Number of agreements executed in less than 60 days has increased this quarter due to executing a large number of Master Municipal Agreements for Construction, Inspection & Maintenance.



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Percent of Construction Contracts Awarded within 60 Days of Bid Opening	92.3%	FY13-Q3	100%	<p>▲ Preferred Trend</p>	For the 1 <sup>st</sup> quarter reporting period for CY 2013, 24 of 26 Construction Contracts were awarded within 60 days of bid opening. Timely execution of contracts is critical to ensure a safe and efficient infrastructure for the traveling public and quickly disbursing contract funds minimizes overall project costs. Current data indicates a positive trend towards the target.
Number of Project Closeouts (FY)	460	FY13-YTD	300	<p>▲ Preferred Trend</p>	In the third quarter of SFY 2013, 102 projects have been closed. For SFY 2013 the goal remained at 300 and we have exceeded the goal and continue to decrease the backlog. We have 75 Final Vouchers proceeding through the closeout process and 258 assigned for Final Voucher preparation.
Percent of Construction Contracts Completed within Budget	83%	CY13-Q1	Increase Percentage	<p>▲ Preferred Trend</p>	In the 1 <sup>st</sup> Quarter of CY 2013, 18 projects were completed, with 83% being completed within budget. The target is to increase the percentage by minimizing cost overruns on contracts by being proactive in design phase reviews to address constructibility issues, and to encourage contractor's innovative ideas and value engineering.
Percent of Construction Contracts Completed on Time	61%	CY13-Q1	Increase Percentage	<p>▲ Preferred Trend</p>	In the 1 <sup>st</sup> Quarter of CY 2013, 18 projects were completed, with 61% being completed on time. The target is to increase the percentage by reducing time overruns by improving coordination of contract activities, utility relocation efforts, and timely communication with various stakeholders; by closely monitoring construction activities schedules and addressing issues in a timely manner.