

Asset Management: Highway Maintenance Annual Report

WSDOT's task completion and asset conditions

Calendar year 2012 through 2015; Funded level targets for select maintenance activities

Activity or asset (Task completion measure)	Annual Performance Measures: Percentage of task completion goals met and Asset condition rating				2015	
	2012	2013	2014	2015	Funded target	Goal met
Movable or floating bridges (Completed preventative maintenance tasks)	98% <i>Tasks completed:</i> A+ <i>Asset condition rating:</i>	91% A+	89% A	99% A	A	Yes
Traffic signal systems operations (Completed preventative maintenance tasks)	88% C+	84% B-	76% B-	68% B	C	Yes
Pavement (Completed planned maintenance)	86% 92%	129% ¹ 92%	96% ¹ 93%	86% ¹ 93%	90%	Yes
Urban tunnel systems operations (Completed preventative maintenance tasks)	91% C	95% B-	97% B+	99% B	B	Yes
Structural bridge repair (Completed priority one repairs)	60% 95% ³	54% ² 96% ³	54% ² 92% ³	40% ² 92% ³	90%	Yes
Regulatory sign maintenance (Completed planned maintenance)	87% C+	75% C+	80% C	67% D	C	No
Intelligent Transportation Systems (Completed preventative maintenance tasks)	51% A-	47% ⁴ A-	47% ⁴ A-	36% ⁴ A	A	Yes
Bridge deck repair (Completed planned maintenance)	111% 95% ³	77% ⁵ 96% ³	185% ⁵ 92% ³	252% ⁵ 92% ³	90%	Yes
Maintain catch basins and inlets (Completed annual inspection and maintenance in NPDES ⁶ permit area)	61% C	100% B+	100% A+	100% A	B	Yes
Cable barrier ⁷ (Completed planned maintenance and repairs)	103% A-	96% A+	100% A+	94% A	A	Yes
Pavement striping maintenance (Completed planned maintenance)	88% C	96% C+	107% C+ ⁸	104% A	B	Yes
Raised/recessed pavement markers (Completed planned maintenance)	85% C+	73% B-	71% C+	88% C	C	Yes
Highway lighting systems (Completed preventative maintenance tasks)	78% A-	46% ⁹ A	45% ⁹ A	45% ⁹ B	A	No
Guidepost maintenance (Completed planned maintenance)	87% D	134% ¹⁰ D	99% D	105% D	D	Yes
Stormwater BMPs ¹¹ (Completed annual inspection and maintenance in NPDES ⁶ permit area)	N/A ¹² C	100% C	85% I ¹³	98% A	B	Yes
Maintain culverts (Completed planned maintenance)	77% C-	113% ¹⁴ D	133% ¹⁴ C	93% D	D	Yes
Pavement marking maintenance (Completed planned maintenance)	112% D	98% D	70% C-	105% D	D	Yes
Shoulder maintenance (Completed planned maintenance)	48% C+	88% C	92% C	62% C	C	Yes

Data source: WSDOT Maintenance Office.

Notes: 1 Beginning in the 2013-2015 biennium, WSDOT is using only one type of unit measurement that represents the largest component of the pavement activity, rather than four different types of units used in the 2011-2013 biennium. 2 While task completion of "priority one" repairs declined in 2013 and remained low in 2014 and 2015, the overall asset remains above the funded level target. The scope and costs of these repairs can vary by type of repair and location. WSDOT continues to evaluate its coordination of priority one repairs to improve the asset condition. 3 Structural bridge repairs and bridge deck repairs are being integrated with the current Bridge Preservation Office reporting the percentage of Washington State managed bridges in fair or better condition. 4 While ITS systems are continuously added to WSDOT's infrastructure, funding availability for maintenance of this inventory has remained the same, leading to the decreasing percentage of task completion. 5 WSDOT reduced its maintenance on bridge decks toward the end of fiscal year 2013 to avoid overspending the budget at the end of the 2011-2013 biennium. New funding for the 2013-2015 biennium allowed crews to complete some of the backlog created in the previous biennium. 6 NPDES stands for the National Pollutant Discharge Elimination System. 7 This activity is a subset of the Guardrail Maintenance activity. 8 Critical bridge needs necessitated shifting funds from striping to bridge maintenance in 2014. Even with the funds shift, the level of service achieved in 2014 did not decrease from the level of service achieved in 2013. Maintenance planned and delivered the work for a level of service of a C+. 9 In 2013, electrical service preventative maintenance tasks, which were not previously measured, were added into the total plan. This significantly increased the total preventative maintenance tasks needed and lowered the statewide completion percentage, as no additional funding was received. 10 WSDOT increased activities with minimal material expenditures to avoid overspending at the end of the biennium. This activity is mostly labor costs. 11 Stormwater BMPs stands for Stormwater Treatment Facilities Best Management Practices. 12 Data is unavailable. 13 "I" indicates an incomplete score. 14 More maintenance was completed than planned because there was an increased need for maintenance activities on culvert inspections, cleaning and minor repairs.