

Asset Management: Highway Maintenance Annual Report

WSDOT's task completion and asset conditions

Calendar year 2015 through 2018; 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				2018	
	2015	2016	2017	2018	Funded target	Goal met
Special Bridges and Ferry Operations (Completed preventative maintenance tasks)	99% <i>Tasks completed:</i> A <i>Asset condition rating:</i>	98% A	98% A	99% A	A	Yes
Traffic Signal System Operations (Completed preventative maintenance tasks)	68% B	57% C	66% B	64% B	C	Yes
Pavement (Completed planned maintenance)	86% ¹ 93% ²	93% 93% ²	84% 92% ²	80% ¹ 92% ²	90%	Yes
Urban Tunnel Systems Operations (Completed preventative maintenance tasks)	99% B	97% B	N/A ³ N/A ³	N/A ³ N/A ³		
Structural Bridge Repair (Completed priority one repairs)	40% ⁴ 92% ²	19% ⁴ 91% ²	27% ⁵ 92% ²	31% 93% ⁵	90%	Yes
Regulatory/Warning Sign Maintenance (Completed planned maintenance)	67% D	73% C	71% D	71% D	C	No
Intelligent Transportation Systems (Completed preventative maintenance tasks)	36% A	60% ⁶ B	56% ⁷ B	52% ⁷ B	A	No
Bridge Deck Repair (Completed planned maintenance)	252% ^{8,9} 92% ²	96% 91% ²	74% 92% ²	68% 93% ²	90%	Yes
Catch Basins and Inlets Maintenance (Completed annual inspection and maintenance in NPDES ¹⁰ permit area)	100% A	97% B	96% A	97% A	A	Yes
Barrier Maintenance - Cable Barrier ¹¹ (Completed planned maintenance and repairs)	94% A	100% A	100% B	99% B	A	No
Pavement Striping Maintenance (Completed planned maintenance)	104% ⁸ A	85% B	92% A	98% A	B	Yes
Raised/Recessed Pavement Markers (Completed planned maintenance)	88% C	75% C	94% C	49% ¹² C	C	Yes
Highway Lighting Systems (Completed preventative maintenance tasks)	45% ¹³ B	34% ¹³ B	37% ¹³ C	38% C	A	No
Guidepost Maintenance (Completed planned maintenance)	105% ⁸ D	90% D	70% D	83% D	D	Yes
Stormwater Facility Maintenance (Completed annual inspection and maintenance in NPDES ¹⁰ permit area)	98% A	99% A	99% A	99% A	A	Yes
Culvert Maintenance (Completed planned maintenance)	93% D	100% B	85% C	86% C	D	Yes
Pavement Marking Maintenance (Completed planned maintenance)	105% ⁸ D	68% C	59% F	59% F	D	No
Shoulder Maintenance (Completed planned maintenance)	62% C	68% C	65% C	75% 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. Pavement data lags one year behind indication (i.e., 2018 column corresponds to 2017 data). Pavement is part of an integrated approach using Washington State Pavement Management System condition rating, which takes into account all maintenance and preservation work completed and/or needed. **2** Pavement and bridge asset conditions are given as percentage of WSDOT owned highway lane miles in fair or better condition (pavement) and percentage of WSDOT owned bridges in fair or better condition by bridge deck area. **3** Urban Tunnel Systems Operations is represented by the I-90 tunnel which was under construction during the reporting period and is not included in calculations of percent of targets achieved. **4** Structural Bridge Repair continues to show a decline in task completion for priority one repairs; WSDOT is emphasizing bridge deck repairs. **5** Structural bridge repairs completed went up in 2017 as deck repair work completed went down due to the limited work time available for bridge crews. The crews prioritize the most critical work whether it is deck or structural. **6** Task completion for Intelligent Transportation Systems increased due to a revision in the recommended frequency for preventive maintenance for Closed Circuit Television Systems (CCTV). The task completion rate would have been 44% without the upward shift in preventive maintenance frequency. **7** Intelligent Transportation Systems (ITS) has shown a 5.7% increase in total inventory through system additions, since 2017. In 2017 the percent of task completion was 56%, with 2018 being 52%. **8** Percentages greater than 100 indicate more maintenance was completed than planned. **9** 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. **10** NPDES stands for the National Pollutant Discharge Elimination System. **11** This activity was a subset of the Guardrail Maintenance activity in previous reports. **12** Raised/Recessed pavement marking maintenance tasks significantly decreased due to budgetary and equipment challenges. **13** Highway Lighting planned work includes the preventive maintenance work completed for highway lighting systems and electrical services.