

Asset Management: Highway Maintenance Annual Report

WSDOT's task completion and asset conditions

Calendar year 2017 through 2019; Funded level targets for select maintenance activities

Activity or asset (Task completion measure)		2019				
		2017	2018	2019	Funded target	Goal met
Special Bridges and Ferry Operations (Completed preventative maintenance tasks)	Tasks completed:	98%	99%	97%		
	Asset condition rating:	A	A	A	A	Yes
Structural Bridge Repair ¹ (Completed priority one repairs)		27% ²	31%	18% ³		
		92%	93%	93%	90%	Yes
Pavement ¹ (Completed planned maintenance)		84%	80%	86%		
		92%	92%	91%	90%	Yes
Traffic Signal System Operations (Completed preventative maintenance tasks)		66%	64%	64%		
		B	B	C	C	Yes
Catch Basins and Inlets Maintenance (Completed annual inspection and maintenance in NPDES ⁴ permit area)		96%	97%	98%		
		A	A	A	A	Yes
Urban Tunnel Systems Operations ⁵ (Completed preventative maintenance tasks)		N/A	N/A	N/A		
		N/A	N/A	N/A		
Regulatory/Warning Sign Maintenance (Completed planned maintenance)		71%	65%	74%		
		D	C	D	C	No
Barrier Maintenance - Cable Barrier ^{6, 10} (Completed planned maintenance and repairs)		100%	99%	99%		
		B	B	B	B	Yes
Pavement Striping Maintenance (Completed planned maintenance)		92%	82%	90%		
		A	B	B	B	Yes
Bridge Deck Repair ¹ (Completed planned maintenance)		74%	68%	86%		
		92%	93%	93%	90%	Yes
Stormwater Facility Maintenance (Completed annual inspection and maintenance in NPDES permit area)		99%	99%	98%		
		A	A	A	A	Yes
Bridge Cleaning ¹¹ (Completed preventative maintenance tasks)		N/A	N/A	84%		
				B	B	Yes
Intelligent Transportation Systems ⁷ (Completed preventative maintenance tasks)		56% ⁸	52%	43%		
		A	A	A	A	Yes
Culvert Maintenance (Completed planned maintenance)		85%	86%	89%		
		C	D	D	D	Yes
Pavement Marking Maintenance (Completed planned maintenance)		59%	59%	99%		
		F	F	D	D	Yes
Highway Lighting Systems ^{9, 10} (Completed preventative maintenance tasks)		37%	38%	35%		
		C	B	B	B	Yes
Guide Sign Maintenance ¹¹ (Completed preventative maintenance tasks)		N/A	N/A	61%		
				D	C	No

Data source: WSDOT Maintenance Office.

Notes: 2018 data has been revised. **1** 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. Pavement data lags one year behind indication (i.e., 2019 column corresponds to 2018 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** 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. **3** For the first time in 10 years WSDOT has been able to reduce the backlog of P1 priority repairs due to supplemental funds from Preservation and Connecting Washington. **4** NPDES stands for the National Pollutant Discharge Elimination System. **5** Urban Tunnel Systems Operations is represented by the I-90 and as of 2019, the SR 99 tunnel is included in the activity. This activity has been removed from 2017-2019 calculations because the facilities in that category have been under construction during the reporting period and are not included in calculations of percent of targets achieved. **6** This activity was a subset of the Guardrail Maintenance activity in previous reports. **7** Intelligent Transportation Systems (ITS) has shown a 8.7% increase in total inventory through system additions since 2017. **8** 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. **9** Highway Lighting planned work includes the preventive maintenance work completed for highway lighting systems and electrical services. **10** Funded targets were reduced for this activity in 2019. **11** Task completion activities were updated in 2019.