

# Asset Management: Highway Maintenance Annual Report

WSDOT's task completion and asset conditions  
Calendar year 2020 through 2021; Funded level targets for select maintenance activities

Activity or asset (Task completion measure)	2021			
	2020	2021	Funded target	Goal met
Special Bridges and Ferry Operations (Completed preventative maintenance tasks)	Tasks completed: 89% Asset condition rating: A	98% A	A	Yes
Structural Bridge Repair <sup>1,2</sup> (Completed priority one repairs)	15% 94%	7% 93%	90%	Yes
Pavement <sup>1,3,4</sup> (Completed planned maintenance)	66% 93%	153% 93%	90%	Yes
Traffic Signal System Operations (Completed preventative maintenance tasks)	54% B	54% B	C	Yes
Catch Basins and Inlets Maintenance (Completed annual inspection and maintenance in NPDES <sup>5</sup> permit area)	95% B	97% A	A	Yes
Urban Tunnel Systems Operations <sup>6</sup> (Completed preventative maintenance tasks)	98% B	98% B	B	Yes
Regulatory/Warning Sign Maintenance <sup>4,7</sup> (Completed planned maintenance)	108% N/A	100% F	C	No
Barrier Maintenance - Cable Barrier <sup>8</sup> (Completed planned maintenance)	100% B	99% A	B	Yes
Pavement Striping Maintenance (Completed planned maintenance)	56% F	75% C	B	No
Bridge Deck Repair <sup>1,2,4</sup> (Completed planned maintenance)	70% 94%	114% 93%	90%	Yes
Stormwater Facility Maintenance (Completed annual inspection and maintenance in NPDES <sup>5</sup> permit area)	97% B	100% A	A	Yes
Bridge Cleaning (Completed preventative maintenance tasks)	40% F	90% A	B	Yes
Intelligent Transportation Systems (Completed preventative maintenance tasks)	41% A	49% A	A	Yes
Culvert Maintenance (Completed planned maintenance)	94% D	69% F	D	No
Pavement Marking Maintenance (Completed planned maintenance)	41% D	78% F	D	No
Highway Lighting Systems (Completed preventative maintenance tasks)	25% B	19% B	B	Yes
Guide Sign Maintenance <sup>4,7</sup> (Completed preventative maintenance tasks)	107% N/A	107% F	C	No

Data source: WSDOT Maintenance Office.

Notes: COVID-19 work restrictions, furloughs, hiring freezes, budget reductions, increased costs for material, equipment and parts and shortage of personnel affected various work activities. **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., 2021 column corresponds to 2020 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** As of June 2020, 93.8% of WSDOT-owned bridges by deck area were in fair or better structural condition, improving from June 2019 when 92.9% of bridges by deck area were in fair or better condition. The improvement was largely due to the removal of the Alaskan Way Viaduct from WSDOT's bridge inventory.

**3** Pavement rating jumped from 91 to 93% due to multiple concrete projects being substantially complete in 2019; the rating also includes chip seal ratings for the first time in many years. **4** Percentages greater than 100 indicate more maintenance was completed than planned, due to backlog. **5** NPDES stands for the National Pollutant Discharge Elimination System. **6** Urban Tunnel Systems Operations is represented by the SR 99 tunnel for 2020, the I-90 tunnel is not included in 2020 calculations, because the facility was still under construction during the reporting period. For 2021 reporting period, urban tunnels are represented by both the SR 99 and I-90 tunnels for LOS, for task completion the SR99 tunnel is used solely, as the I-90 tunnel continued to be affected by construction. **7** The Regulatory/Warning Sign and Guide Sign Maintenance categories were not conducted in 2020 due to COVID-19 and carpooling restrictions. **8** This activity is a subset of the Guardrail Maintenance activity.