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Measure 3.2.a: Supplemental - Increase the number of projects that provide stormwater treatment or infiltration from 10 to 125 by 2017



MOVING THE NEEDLE

*Stormwater Project
Implementation*

Department of Ecology
Heather Bartlett

April 27, 2016



Why we need to manage our Stormwater.



G3: 3.2a Stormwater Infiltration and Treatment Projects

Current State: Improving



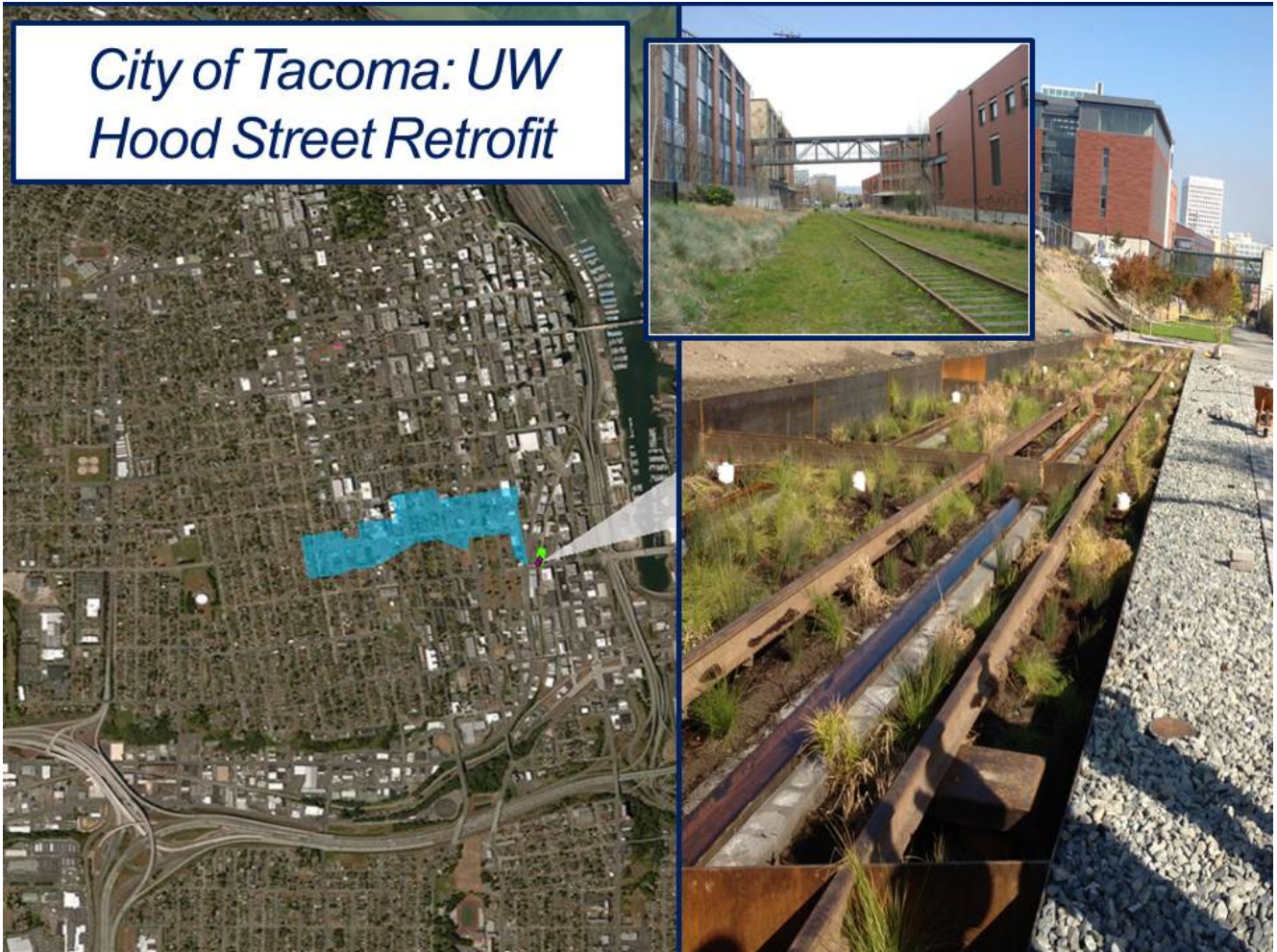
Ecology is on-track to meet the goal of 125 completed projects by 2017



Completed and Active Capital Stormwater Construction Projects FY20011 - FY2016



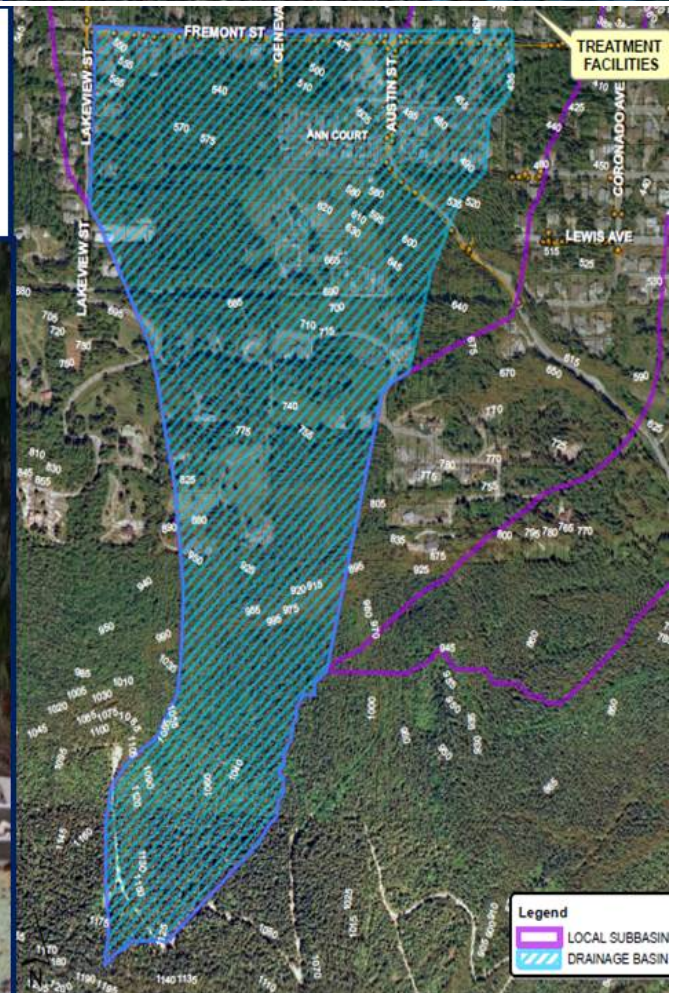
City of Tacoma: UW Hood Street Retrofit



Spokane County: County Homes Boulevard



Whatcom County: Coronado-Fremont Stormwater Improvements

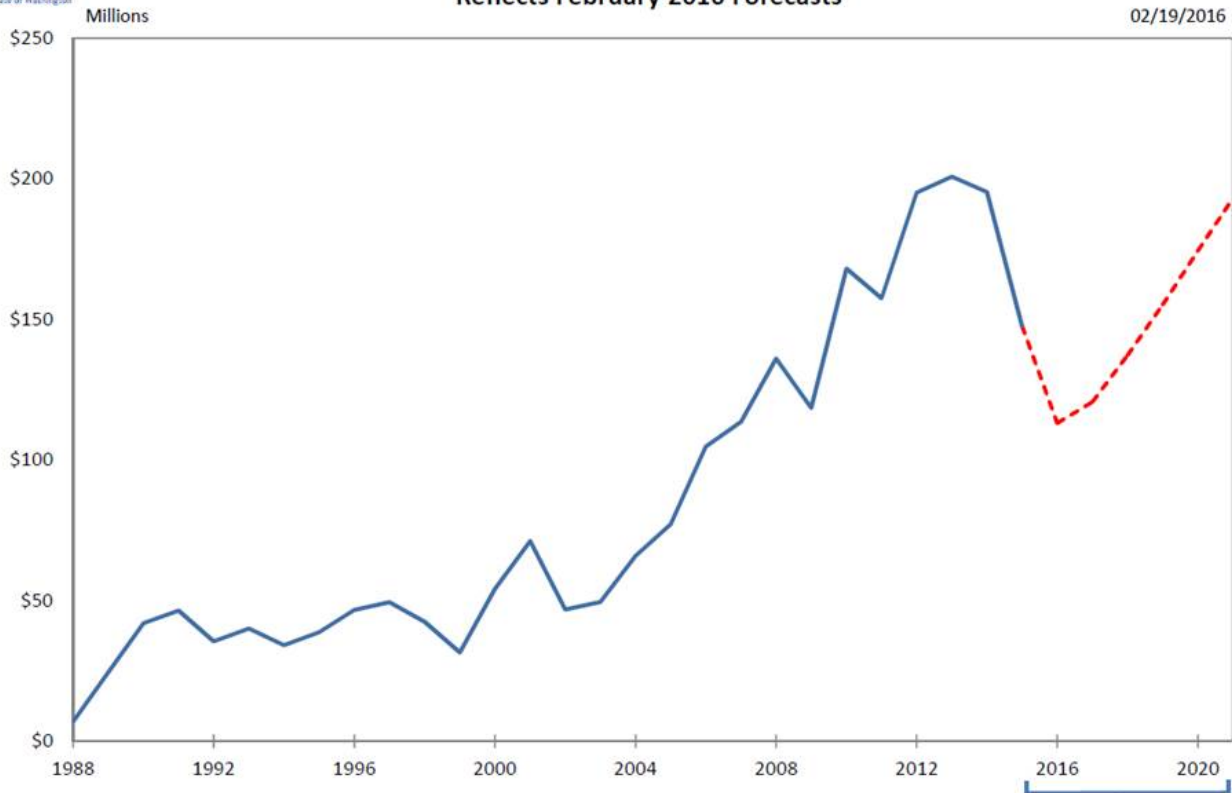




Hazardous Substance Tax Revenue

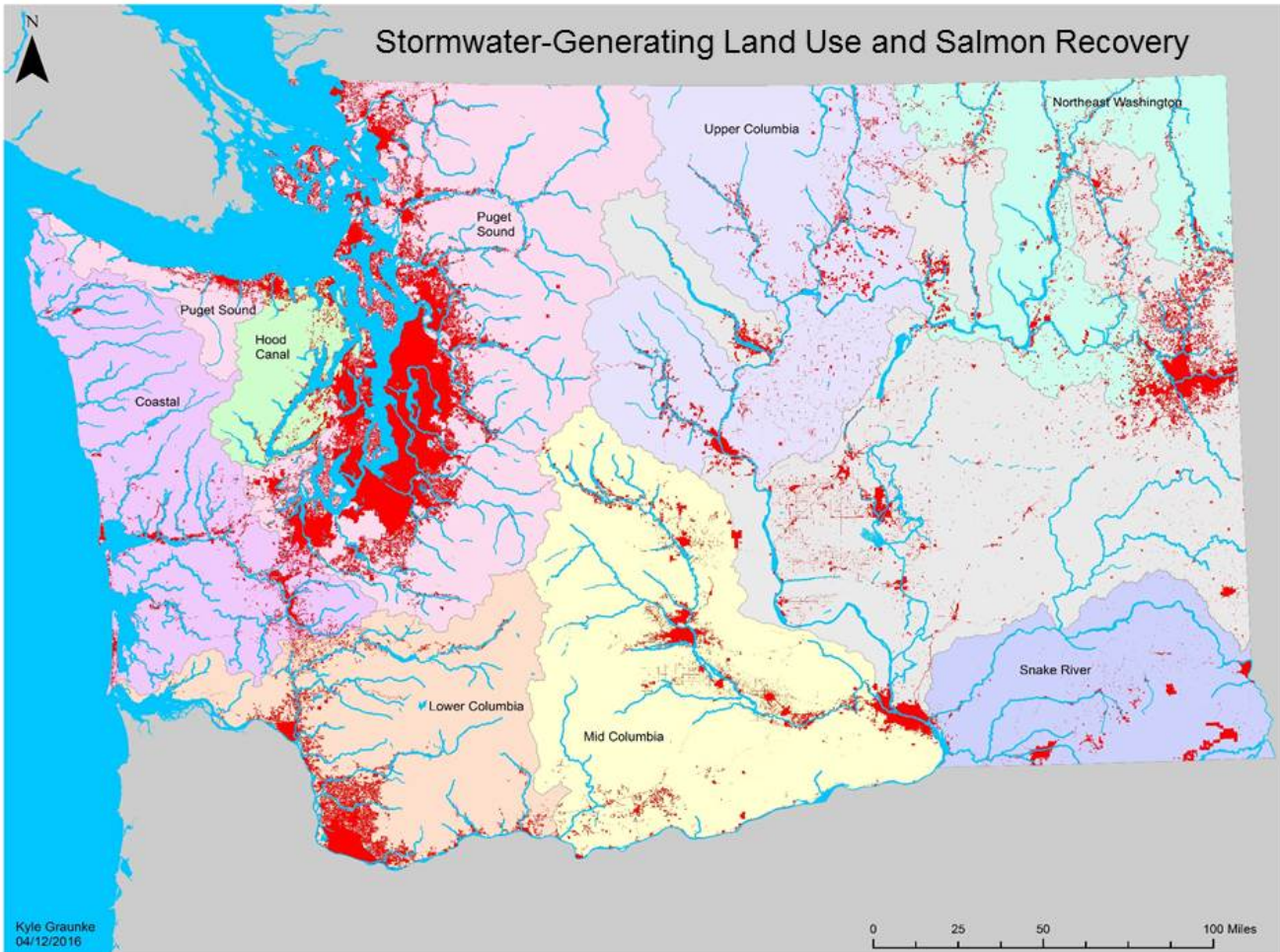
Reflects February 2016 Forecasts

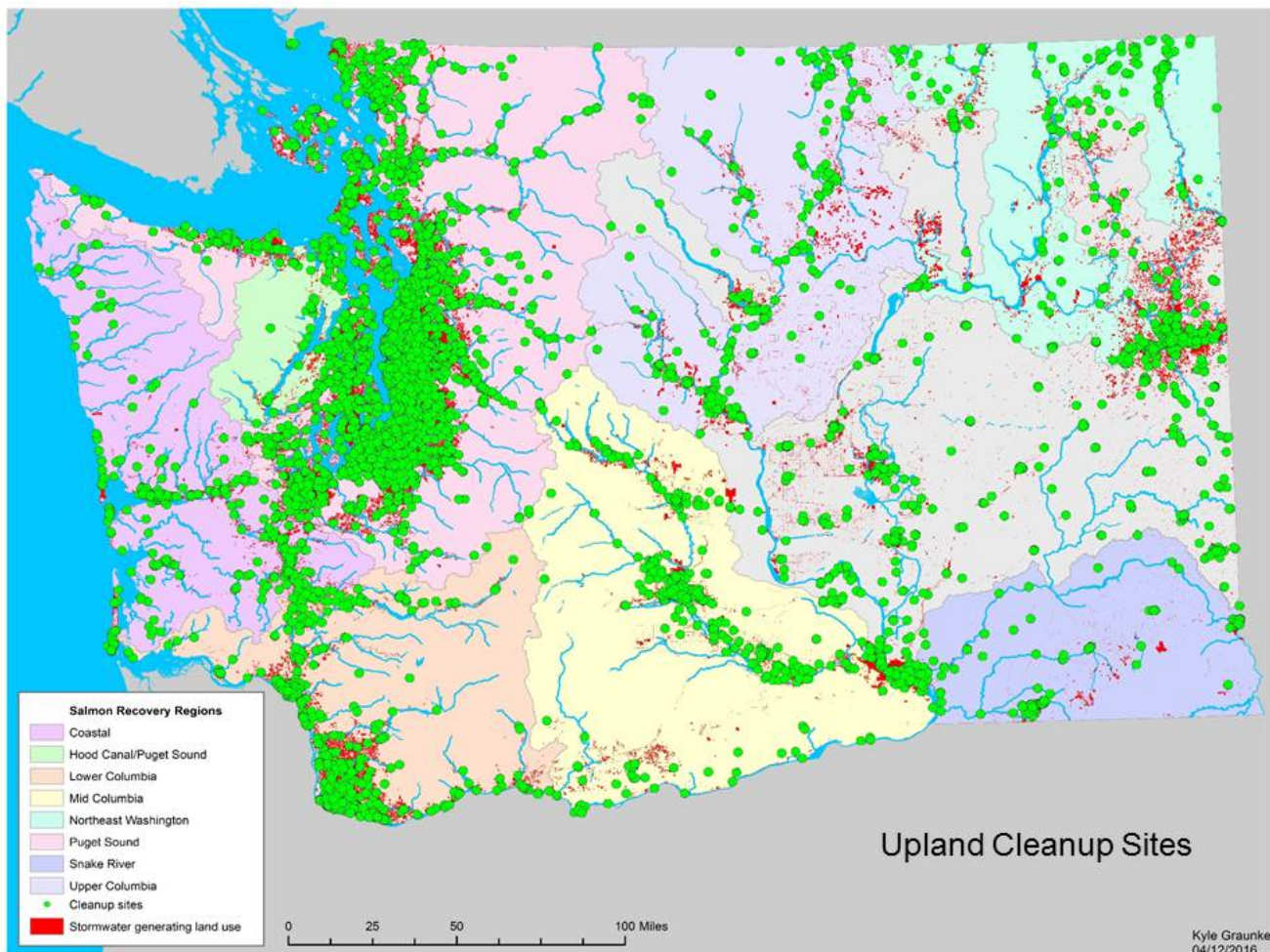
02/19/2016



Source: HST GAAP revenue sourced from Agency Financial Reporting System (AFRS). Data prior to 1997-99 Biennium extracted from Department of Revenue tax reference manual. HST forecast data sourced from Department of Revenue. Fiscal Year 2016 reflects actual collections through Fiscal Month 07 and forecast for the remainder of the fiscal year.

**Feb 2016
Forecast**





**Coho salmon spawner mortality in western U.S. urban watersheds:
bioinfiltration prevents lethal stormwater impacts**

Julann A. Spromberg¹, David H. Baldwin¹, Steven E. Damm², Jenifer K. McIntyre³,
Michael Huff⁴, Catherine A. Sloan¹, Bernadita F. Anulacion¹, Jay W. Davis², and
Nathaniel L. Scholz¹

¹National Marine Fisheries Service, NOAA, Seattle, WA

²U.S. Fish and Wildlife Service, Lacey, WA

³Washington State University, Puyallup, WA

⁴Squamish Tribe, Suquamish, WA

Supplemental Video 2.

Second example of a field observation of a symptomatic adult coho in a Seattle-area urban stream, from 2005. Symptoms are representative of the early-onset phase of the mortality syndrome, and include lethargy, loss of orientation, gaping, and surface swimming. This coho subsequently lost equilibrium and died within 1-2 hrs.

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Supplemental Video 3.

Adult coho spawners exposed under controlled experimental conditions at the Grovers Creek hatchery facility to either clean well water, unfiltered urban runoff, or runoff treated using bioinfiltration. Following a 4 hr exposure, the coho were individually transported from treatment tanks to an observation tank containing clean water for video observation. Control coho in clean well water were asymptomatic, as evidenced by rapid movements, normal equilibrium, and avoidance behavior. By contrast, spawners exposed to untreated stormwater displayed the conventional symptoms of the pre-spawn mortality syndrome, including lethargy and a loss of equilibrium. These overt indicators of lethal toxicity were abolished when the same source of urban runoff was pre-treated using bioinfiltration; spawners from this treatment group were qualitatively indistinguishable from clean water controls.

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