Prioritizing Stream Preservation & Restoration Based on B-IBI

Stakeholder's Workshop Wed, March 19, 1-3:30



Funded by EPA federal pass through funds via WA Dept. of Ecology as part of the PSP Action Agenda: Ecosystem Restoration and Protection Project

💱 King County

Department of Natural Resources and Parks Water and Land Resources Division

B-IBI Advisory Group Meeting

February 27, 2014

B-IBI: PSP Vital Sign Indicator



PugetSoundPartnership

LEADING PUGET SOUND RECOVERY

Freshwater Quality B-IBI Targets by 2020:
 PROTECTION - All stream drainage areas retain "excellent"
 RESTORATION - 30 basins improve from "fair" to "good"



Target Progress

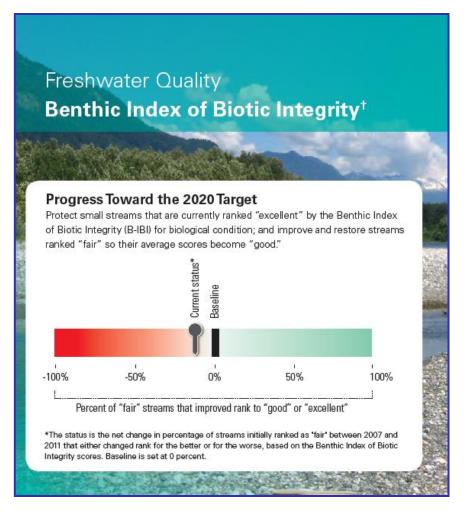
PugetSoundPartnership

LEADING PUGET SOUND RECOVERY

No progress improving biological condition

Funding for King Co. to prioritize basins & develop strategies

No funding for restoration
 & protection implementation
 or effectiveness monitoring



Prioritization Framework

Refine relationship between B-IBI and stressors

- What restoration has worked, where, and why?
 - What actions are possible?
- ->>*Incorporate existing tools as appropriate
- Heedback from regional experts, stakeholders
- \rightarrow Identify restoration strategies for high priority basins

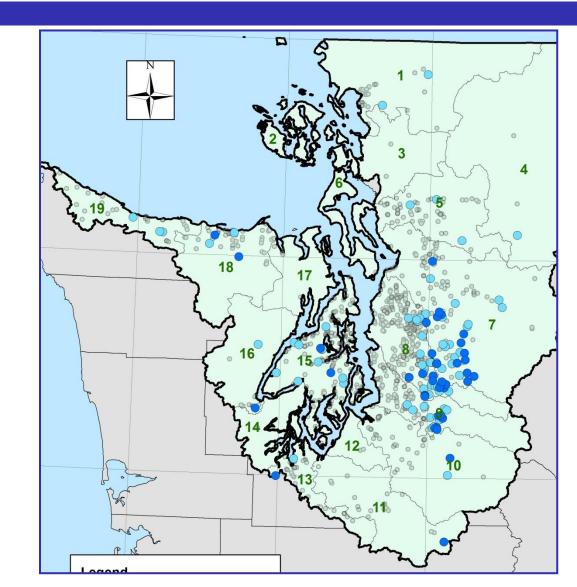


"Excellent" Sites (\geq 42) = Protection

"Excellent" scores ≥ 46 ≥ 42 and <46

121 sites scored "excellent" at least once

33 sites averaged "excellent"

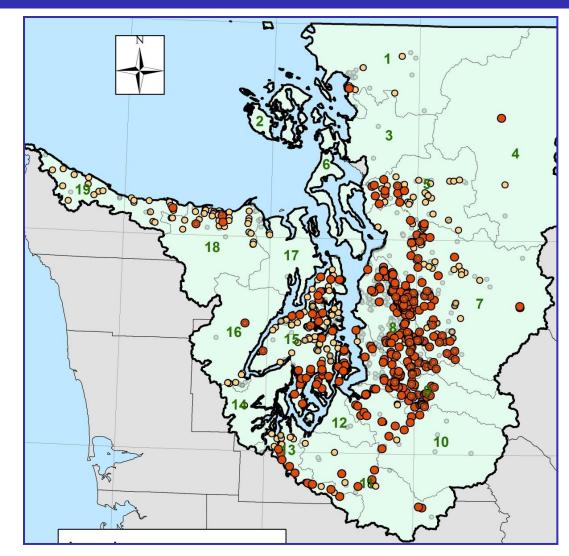


"Fair" Sites (28-36) = Restoration

"Fair" + n>1 + since '08
"Fair" at least once

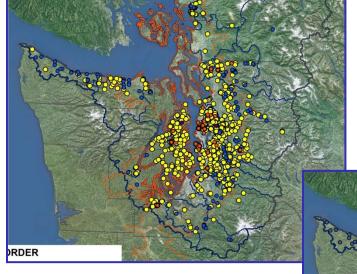
648 sites scored "fair" at least once

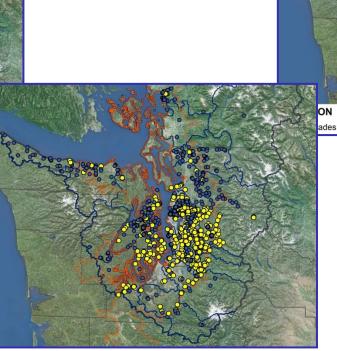
348 sites scored "filtered fair"



"Fair Sites": Filters

Stream Order 1-4

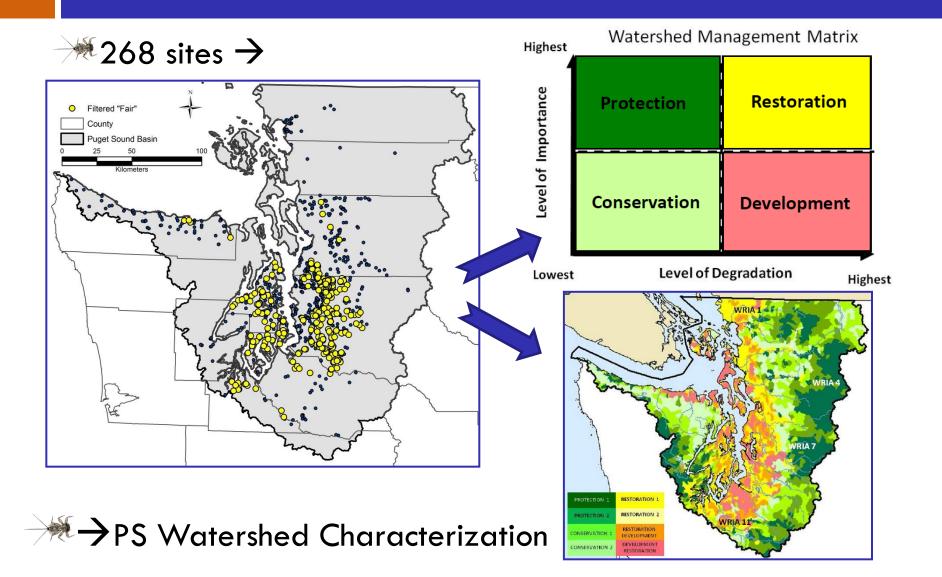




Puget Lowland Ecoregion

Sampled > Twice

Prioritization Framework



Additional Criteria

Fish presence

->>>Ownership

🧯 Basin size

🧯 Impervious Area

Watershed context

Miparian condition

MIntrinsic potential...

Management Actions

Feasible? Effective?

Habitat improvements

SW retrofits

Mag BMPs

MIncentives

Seeding inverts...

Acknowledgements

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Debra Bouchard, Chris Gregersen, Chris Knutson, Gino Lucchetti, Kate Macneale, Kate O'Laughlin, Jim Simmonds, Kerry Thrasher

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WDFW: George Wilhere

Ecology Project Management:

->**Tom Gries, Kim Harper, **Doug Howie**, Kirsten Weinmeister

?'s/Suggestions/Success Stories Jo.Wilhelm@kingcounty.gov www.pugetsoundstreambenthos.org

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