

TEANAWAY RIVER LONG-TERM FLOW RESTORATION: A PERMANENT STRATEGY

June 18, 2014

Yakima Basin S&M Conf.



WASHINGTON
WATER TRUST

Working to restore our state's rivers and streams.

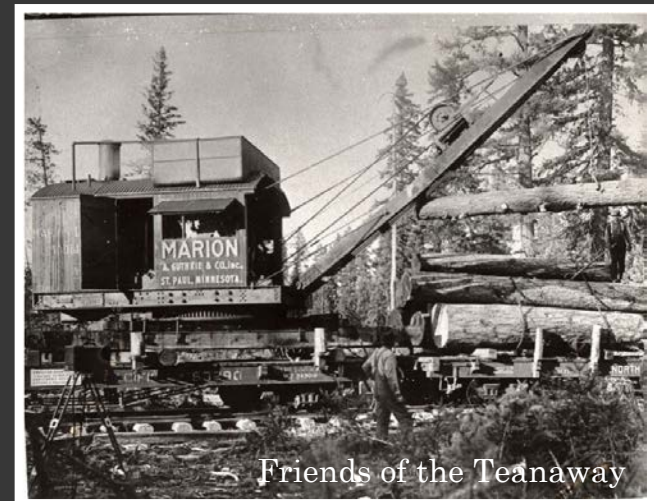
Summary

- Background
- Limiting Factors
- Past/Present Trust Water
- Habitat and Hydrology
- Permanent Restoration
- Beyond Trust Water



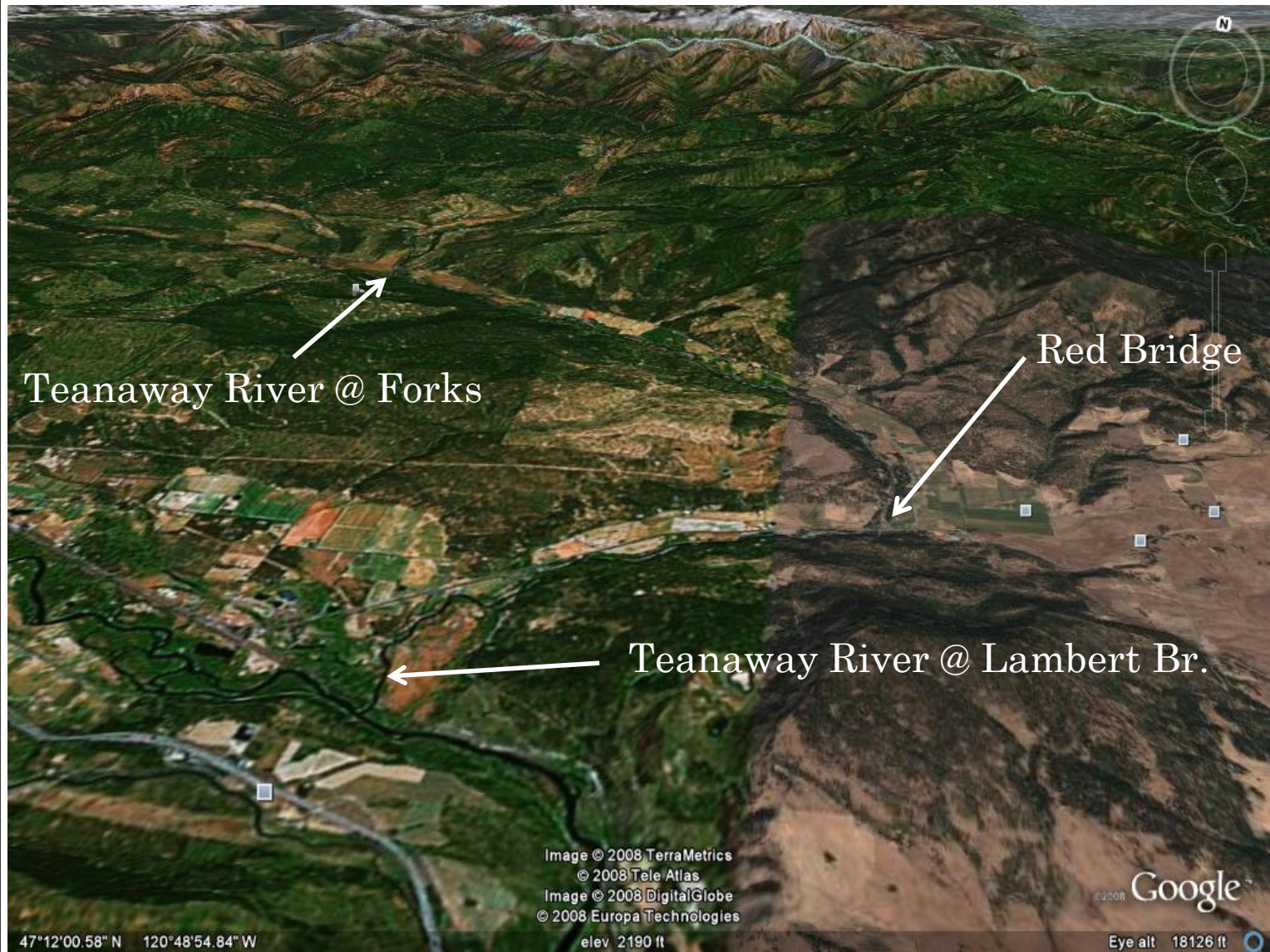
Mission of Washington Water Trust

We are a neutral, non-regulatory nonprofit, dedicated to improving and protecting stream flows and water quality throughout Washington state. We use voluntary, market-based transactions and cooperative partnerships to create balanced solutions so fish, agriculture, business and wildlife—upon which we all depend—can thrive.



Washington Water Trust has been developing instream flow projects in the Teanaway Basin since 2000. In many ways, the Teanaway has been a model for the Columbia Basin Water Transactions Program. What began out of opportunity during drought years has become an enduring icon of instream flow restoration.





Limiting Factors

- Instream Flows
- Passage
- Temperature
- Instream Habitat



Masterson Diversion – Full Passage Blockage and low (no) flows – 1990's

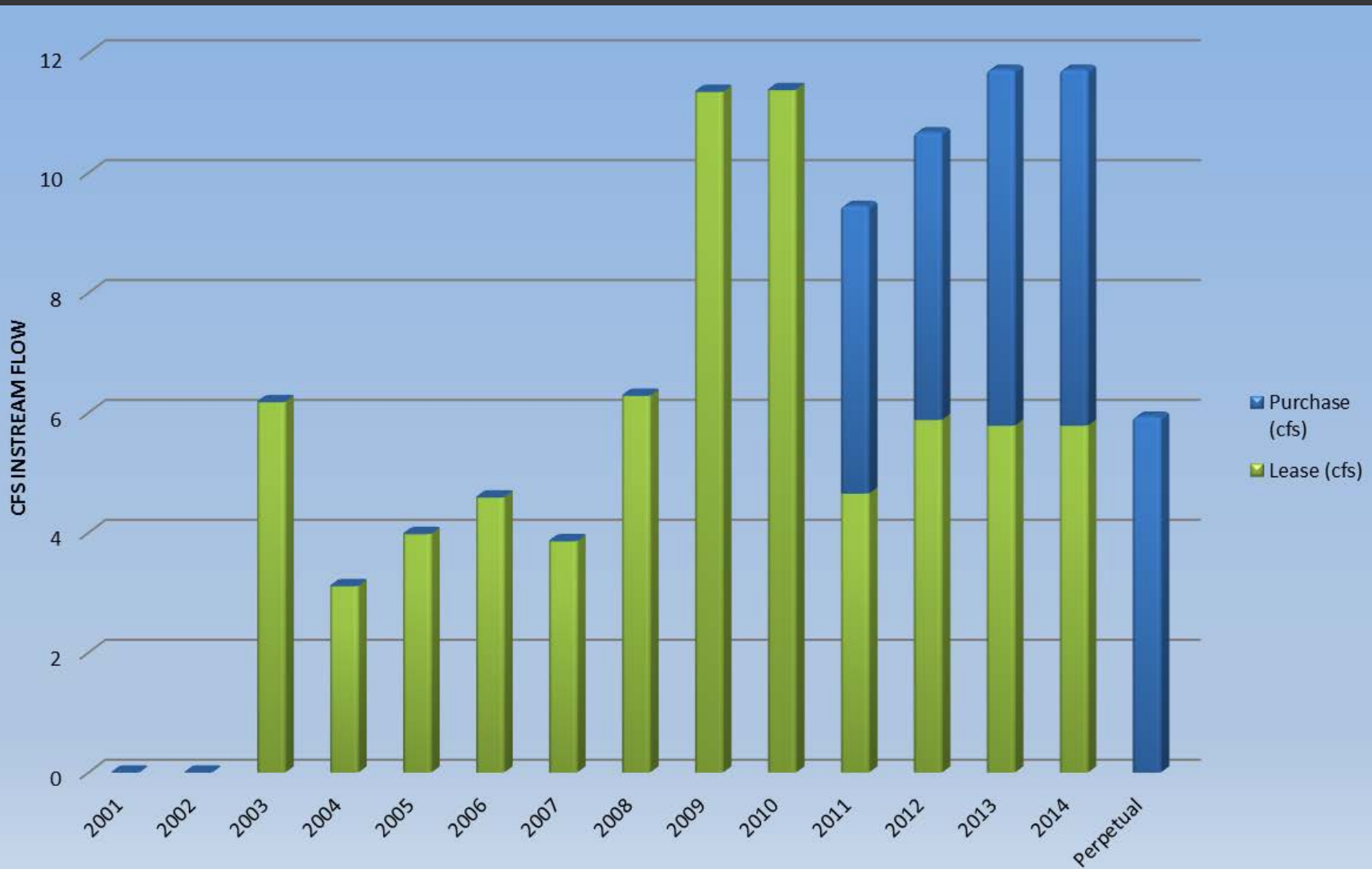


3M Diversion – Full Passage Blockage and low flows - 2008

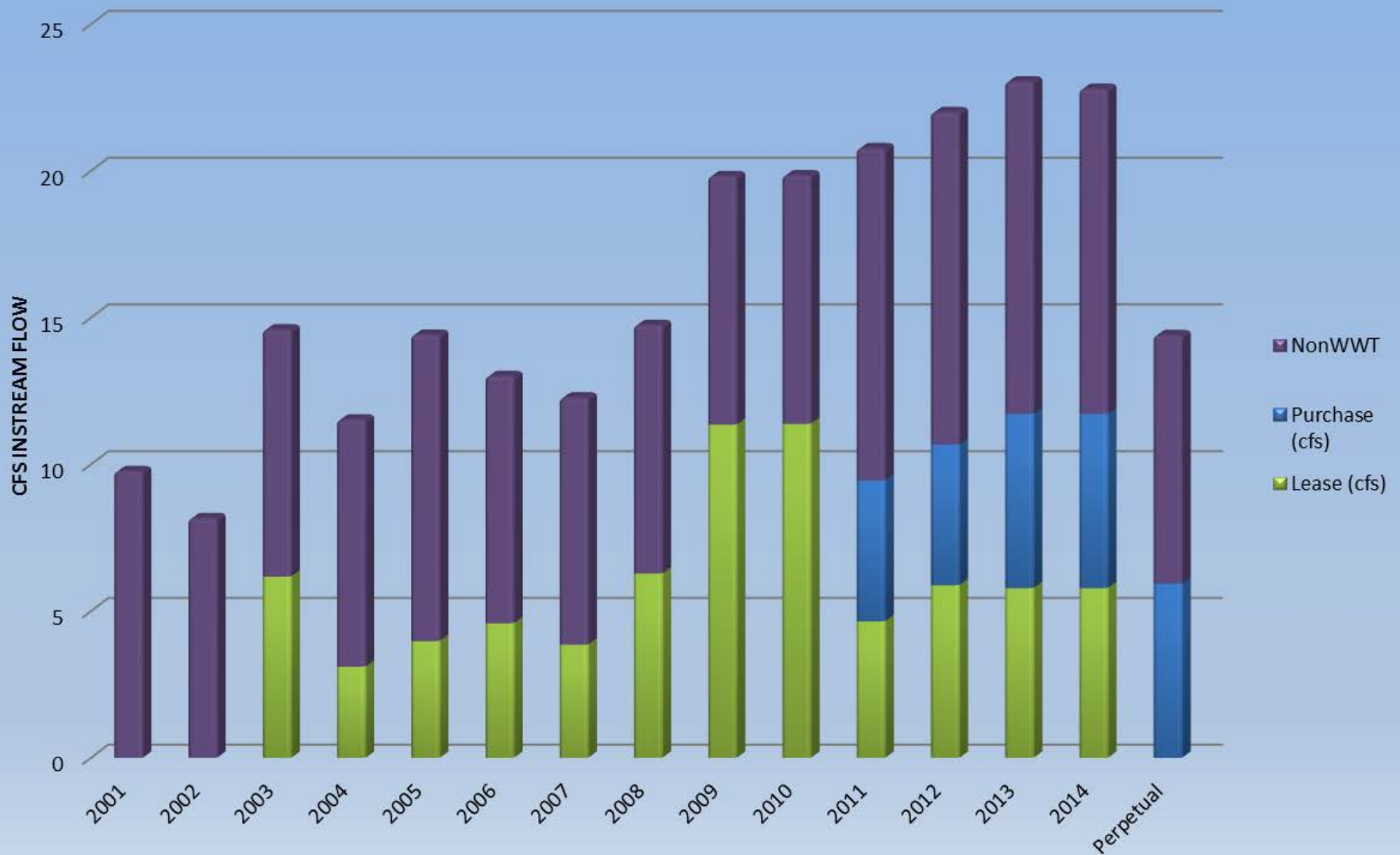
Past/Present Trust Water

- Committed resources since 2000
- Invested \$2 m in leasing and purchases
- Worked with over 21 landowners
- Acquired 5.9 cfs
- Leasing 5.8 cfs
- May 1 to Sept. 15 period
- Goal: Continue to move from short and long-term leasing to permanent.

Past/Present Trust Water - WWT



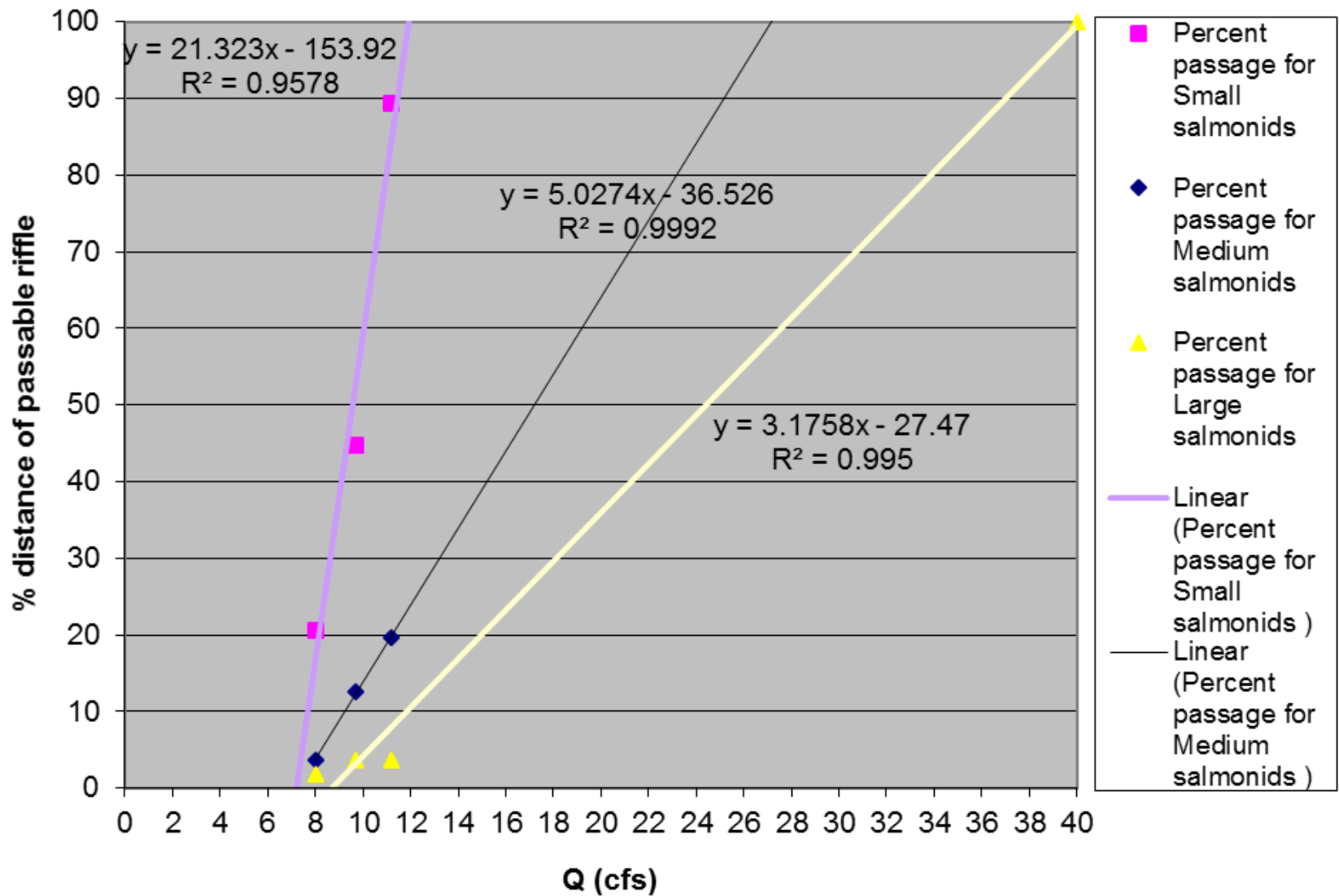
Past/Present Trust Water – All



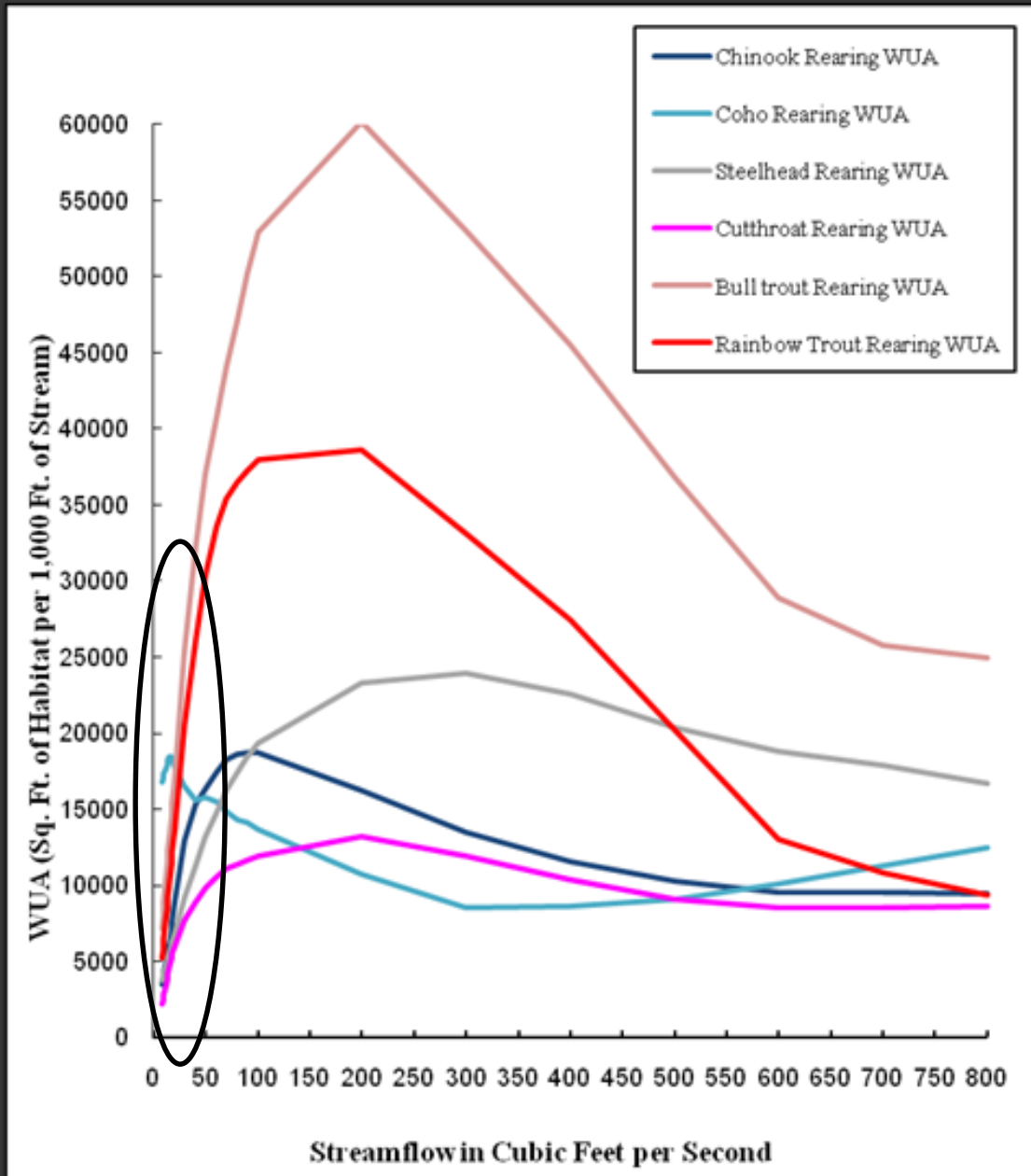
Habitat and Hydrology

- Monitoring Partnerships
- Funded by BPA/CBWTP and Ecology
- Credit to WDFW Water Team

Teaway River Passage % @ 75m DS of Lambert Road Bridge

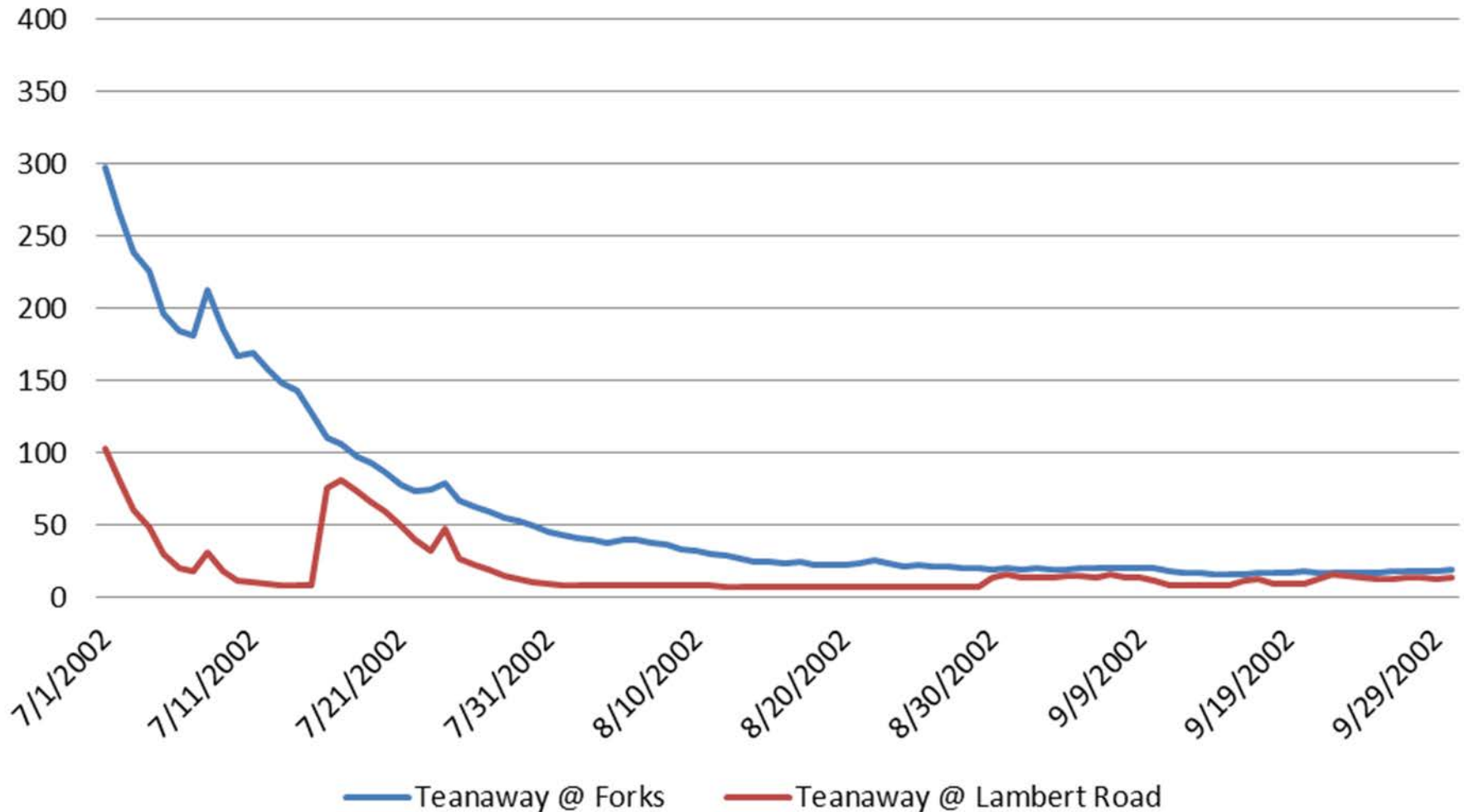


Rearing Weighted Usable Area



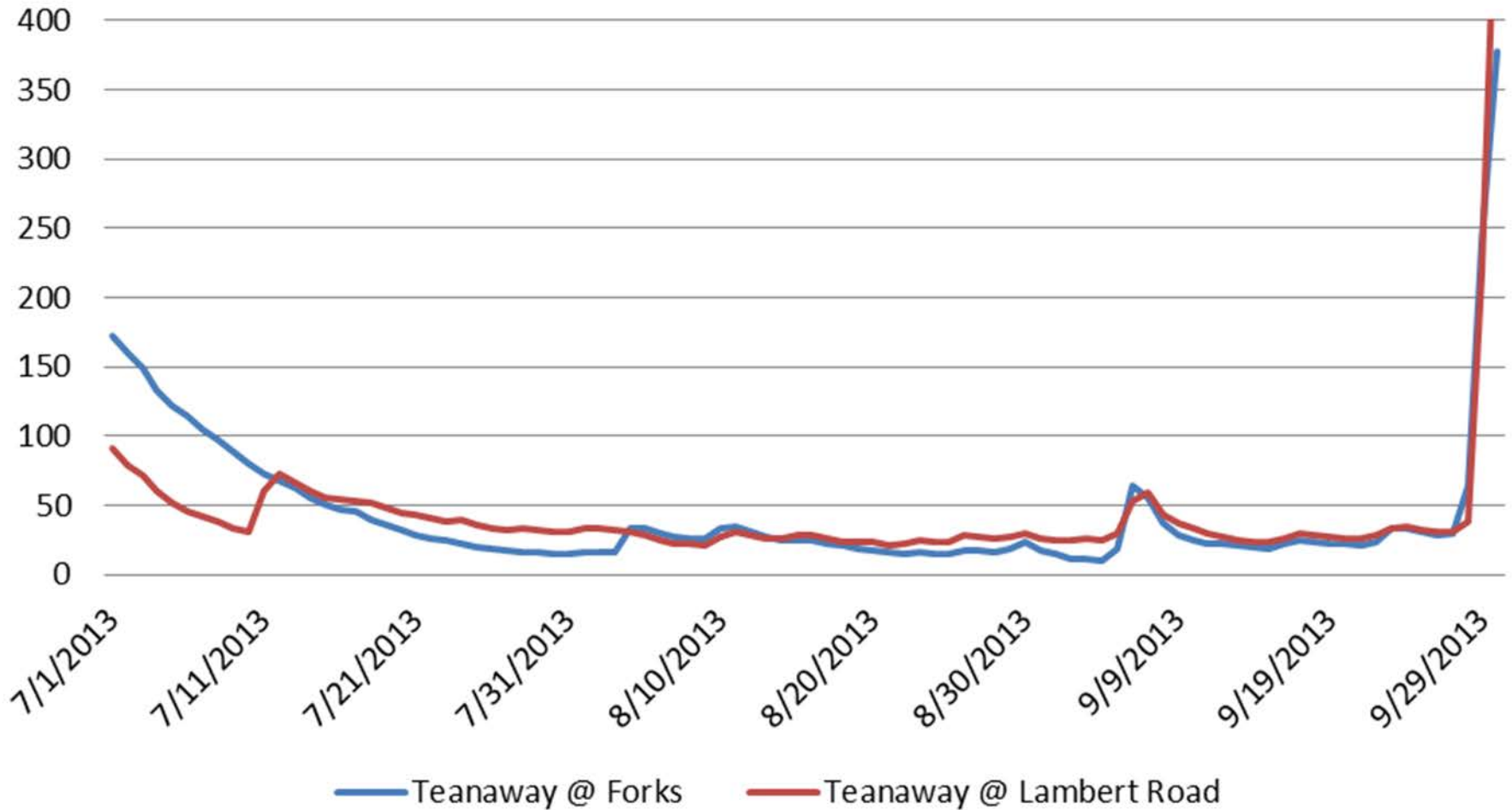
Teanaway 2002 – 0% gaining reach

Teanaway River gage comparison-2002



Teanaway 2013 – 74% gaining reach

Teanaway River gage comparison-2013



Permanent Restoration

- Restoration goal of 12-20 cfs
 - Specie and life stage dependent
- Permanently held instream flows
- Continued focus until goal is met
- Lasting legacy

Beyond Trust Water

- Low flows beyond instream flow period
- Repairing floodplains, habitat, and hydrology
- YBIP Investment and TCF
- Indian Creek, test treatment
- Expansive restoration through the headwaters

2008 TNAW Post-irrigation Flow

