

TEANAWAY RIVER LONG-TERM FLOW RESTORATION STRATEGY

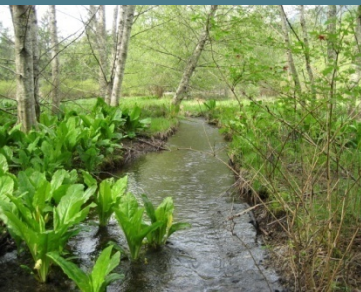
Jason McCormick, Project Manager

June 14, 2012



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Working to restore rivers and streams in Washington state



Washington Water Trust works to improve and protect stream flows and water quality throughout Washington that benefit agriculture, fisheries and wildlife by using innovative, market-based transactions and cooperative partnerships to create balanced solutions.



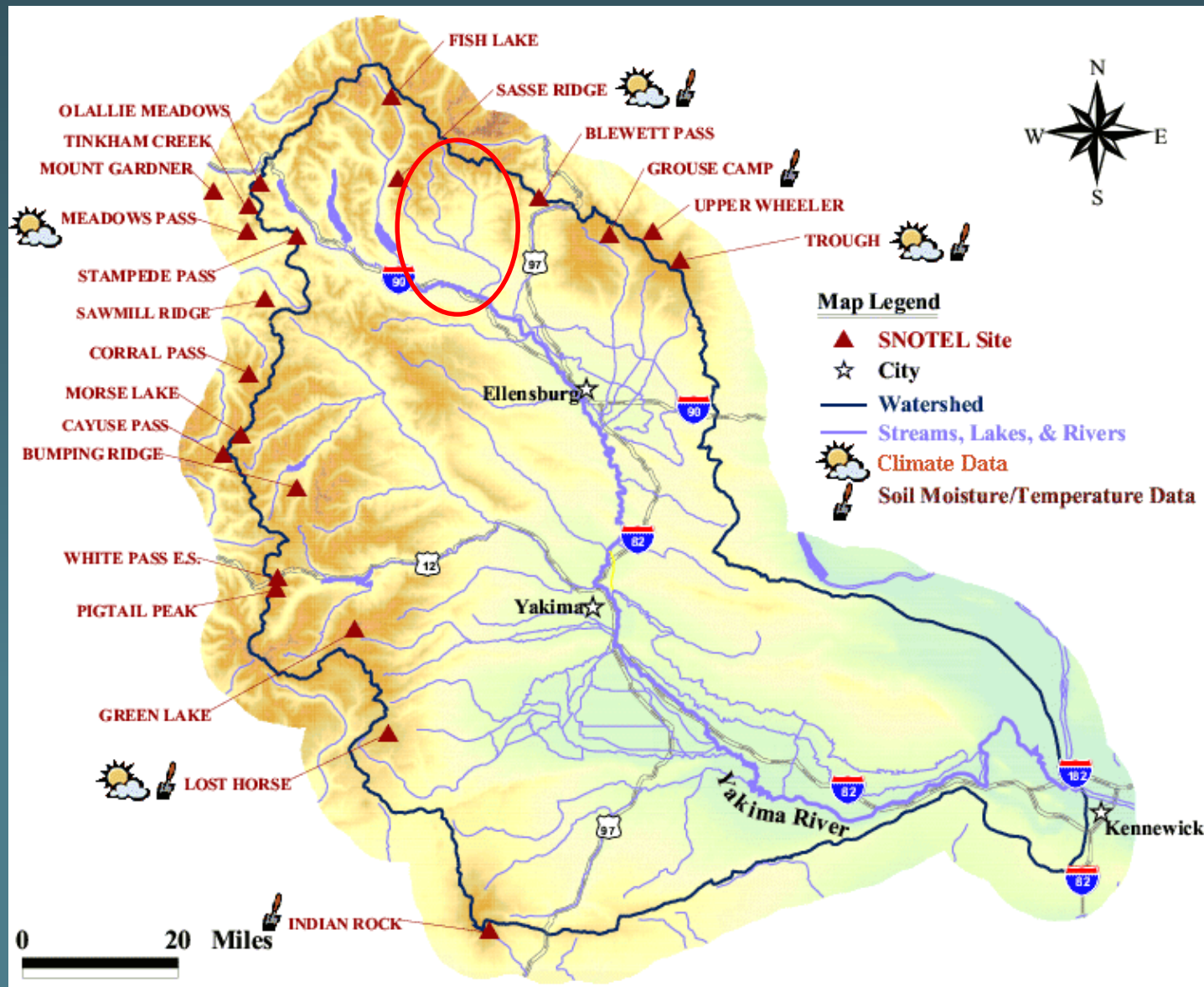
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SUMMARY

- European History and Land use
- Water Allocation
- Allocation vs. Drought Flow
- Instream Flow Program since 2000
- Groundwater Rule and Mitigation
- Monitoring
- Creating Place-Based Interest



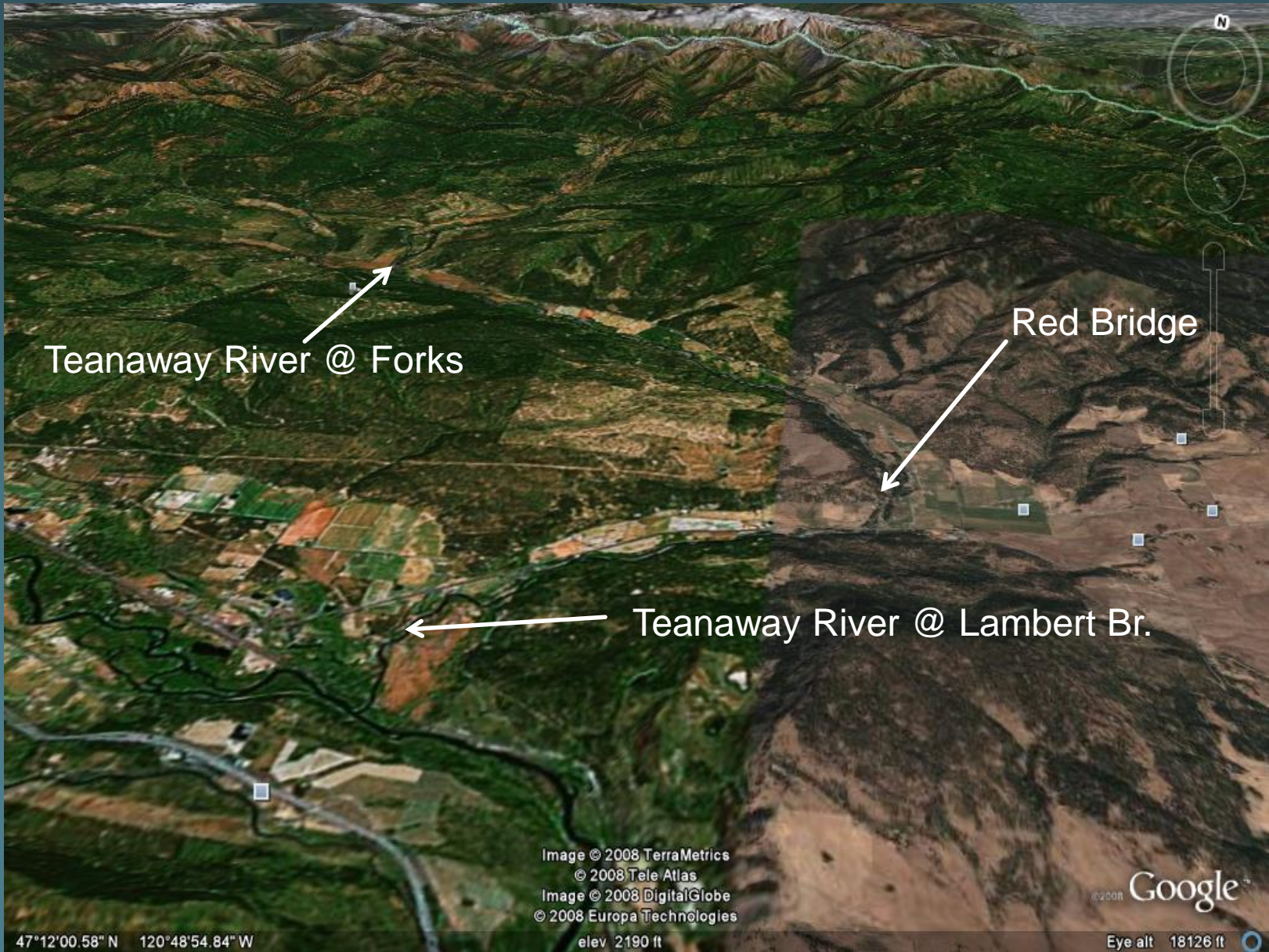
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Courtesy of: http://www.or.nrcs.usda.gov/snow/maps/yakima_basin_map.html



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Teanaway River @ Forks

Red Bridge

Teanaway River @ Lambert Br.

Image © 2008 TerraMetrics
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Google™

Eye alt 18126 ft

47°12'00.58" N 120°48'54.84" W

elev 2190 ft



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EUROPEAN HISTORY AND LAND USE

- Agriculture/farming
 - 1882 to present
- 1904 – “Good runs of salmon...”
- Heavy logging in Teanaway Subbasin
 - Splash dam/log drives – 1905-1920’s
 - Railway – 1916
- Logging/agriculture diminishing
 - Rapidly replaced by recreation properties, retirement homes, second houses, and hobby farms – 1990s to present
- Steelhead and Bull Trout ESA Listed – 03/25/99 and 11/01/99



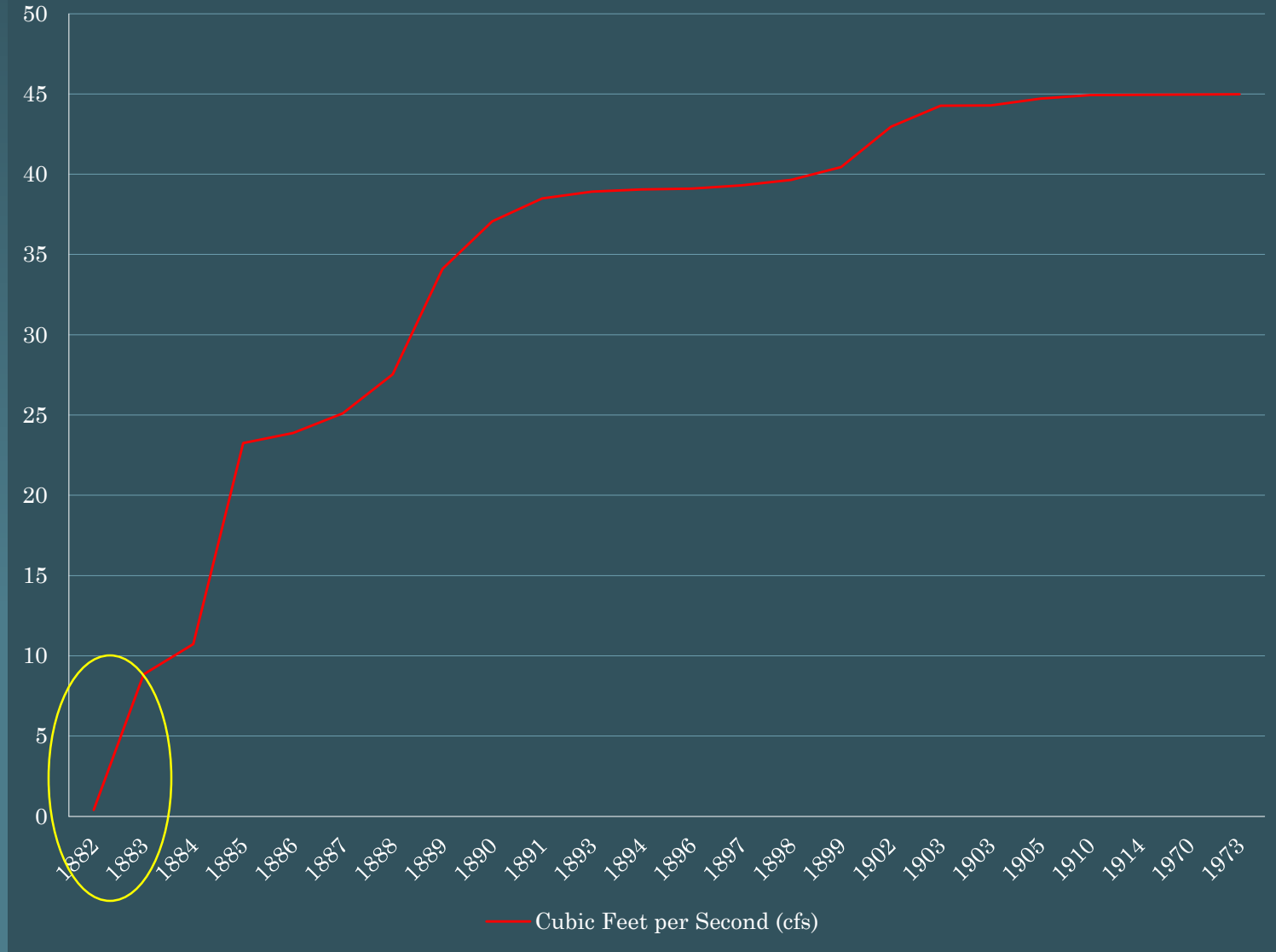
WATER ALLOCATION

- Adjudicating Water Rights
 - June 16, 1921 Teanaway Adjudication
 - October 12, 1977 - present Acquavella Adjudication
- By 1889 the basin was over appropriated
- In 1921, Teanaway River became the 5th adjudicated basin in the State of Washington
- February 8, 2001 Decree issued by Acquavella



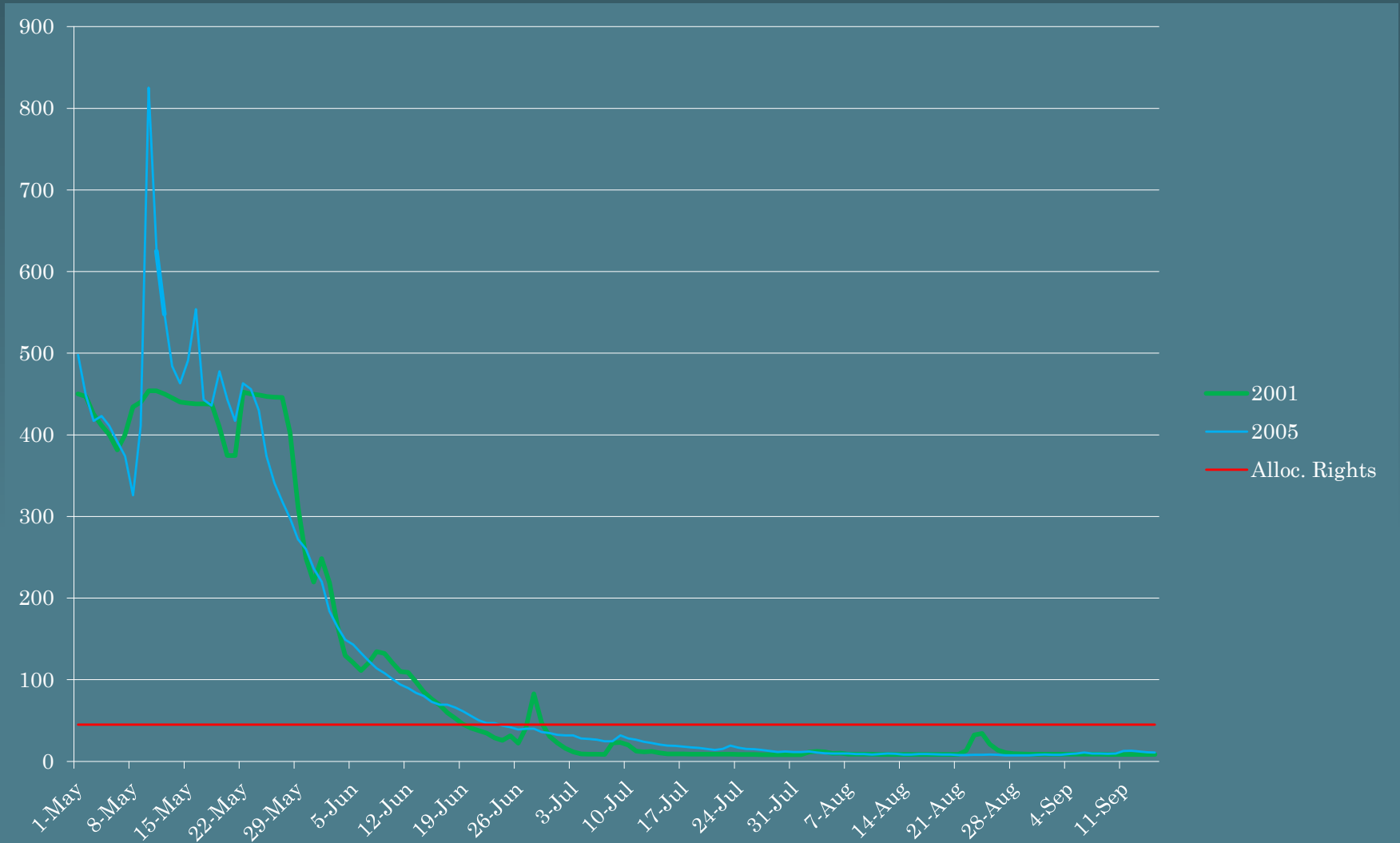
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Adjudicated Water Rights



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ALLOCATED WATER VS. DROUGHT FLOW



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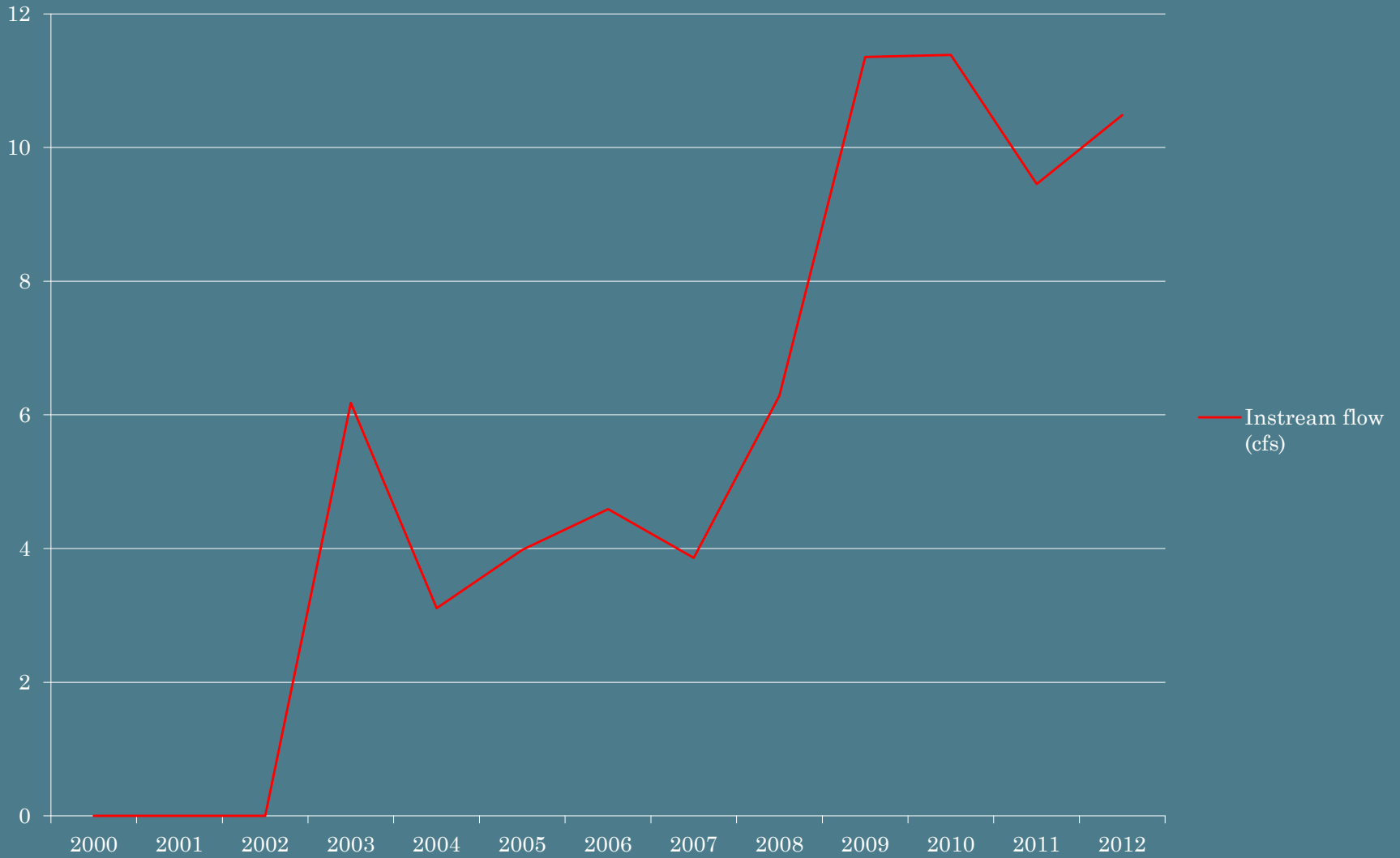
INSTREAM FLOW PROGRAM SINCE 2000

- Committed resources since 2000
- 19 participating water right holders
- Shortest term – 1 year
- Longest term – 30 years
- Short-term, Long-term, and Permanent
- Continued agriculture

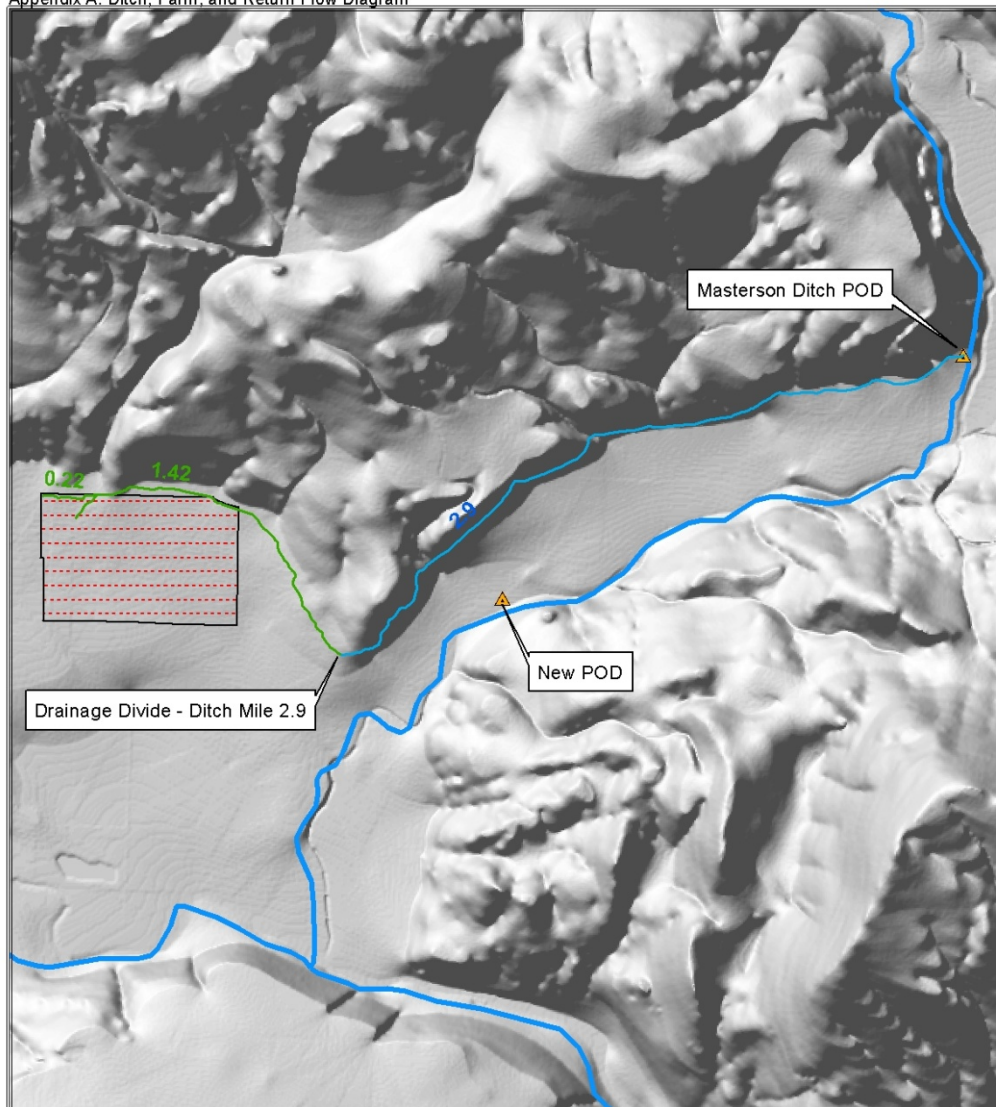


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Teanaway WWT Instream Flow







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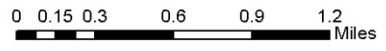


Masterson Farm Ground Water and Surface Water Return Flow

Legend

-  Place of Use
-  Point of Diversion
-  Teanaway Return Flow

 Yakima Return Flow



February 4, 2011



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GROUNDWATER RULE AND MITIGATION BANKING

Rule

- Petition filed by Acqua Permanente
- Permanent Rule filed by Ecology – Chapter 173-539A WAC

Teanaway Mitigation Banking

- Conservation and Mitigation Banking – value added
- Purchase of 60 acres of irrigation / 20 acres of mitigation banking
- WWT operating the Mitigation Bank
- Allows new domestic uses in Teanaway
- Keeps water instream and places a flat fee into a restoration account – Managed by KCT
 - “out-of-kind mitigation”



MONITORING

- 2011 Flow Monitoring
 - WWT
 - Volunteers
 - WDFW
- Collective effort resulted in 10 flow samples and continued data recording for ongoing PHABSIM/Critical Riffle Study during flow critical periods
- 2012 Monitoring
 - Same partners
 - Potential of increasing monitoring points and tailoring to specific project goals



CREATING PLACE-BASED INTEREST

LOCAL SUPPORT THROUGH AWARENESS OF FLOW RESTORATION PROJECTS

What:

Teanaway River Valley Festival

Where:

Swauk-Teanaway Grange Hall

When:

Saturday, July 21, 2012

More information:

www.washingtonwatertrust.org



FORT&ERRA



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QUESTIONS & DISCUSSION



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