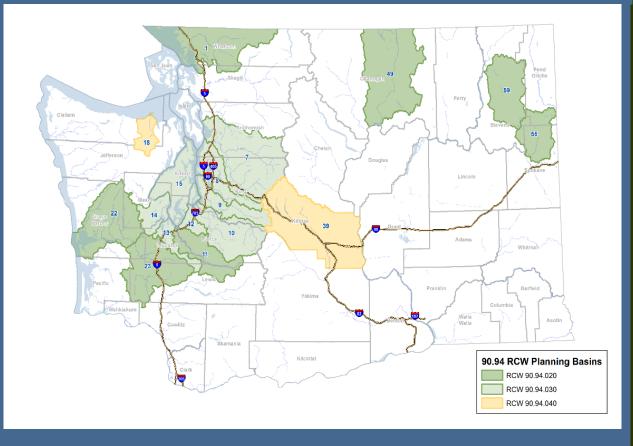


Streamflow Restoration Planning Updates

Rebecca Brown, Angela Johnson, and Mike Noone Ecology's Southwest Regional Office 4/2/2021



What is Streamflow Restoration - RCW 90.94?



Law Affecting 15 Watersheds in WA...

- Existing or newly-created watershed groups directed to develop watershed plans.
- Plans <u>must</u>:
 - Project the number of <u>new domestic permit-</u> <u>exempt (PE) wells</u> during the 20-year planning horizon (2018-2038) and estimate the <u>consumptive use (CU)</u>.
 - Identify projects and actions to offset the estimated consumptive use, and provide reasonable assurance of meeting <u>Net Ecological</u> <u>Benefit (NEB).</u>
- 3 legislative target dates for 15 watersheds (*Feb 1, 2019, Feb 1, 2021, & June 30, 2021*)
- \$300M to support streamflow restoration efforts (*statewide competitive grant program 2018-2033*).
- In Ecology's Southwest Region:
 - Ecology led the planning processes in WRIAs 10, 12, 13, and 14.
 - Planning Units led the planning process in WRIAs 11 and 22/23.

PE Well Projections and Consumptive Use Estimates

Number of New PE Wells Over Planning Horizon (2018-2038)

Outdoor Consumptive Use Factors:

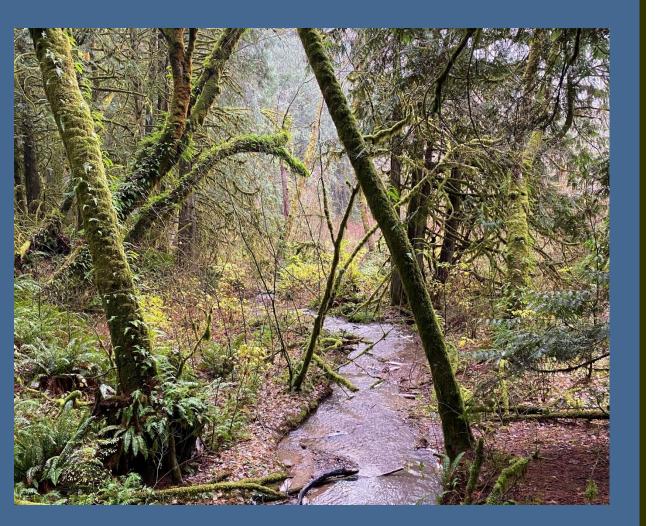
- Average outdoor irrigated area (lawn size).
- Irrigation requirements for turf grass.
- Water application efficiency (75%)
- Consumptive use factor (80%).

Indoor Consumptive Use Factors:

- Average people per household.
- Gpd per person water use.
- Consumptive use factor (10%).



WRIA 10, 12, 13, 14 Plan Recommendations



Net Ecological Benefit (NEB) is defined as "the outcome that is anticipated to occur through implementation of projects in a plan to yield offsets that exceed impacts within a) the planning horizon; and b) the relevant WRIA boundary" (Ecology Final NEB Guidance, 2019).

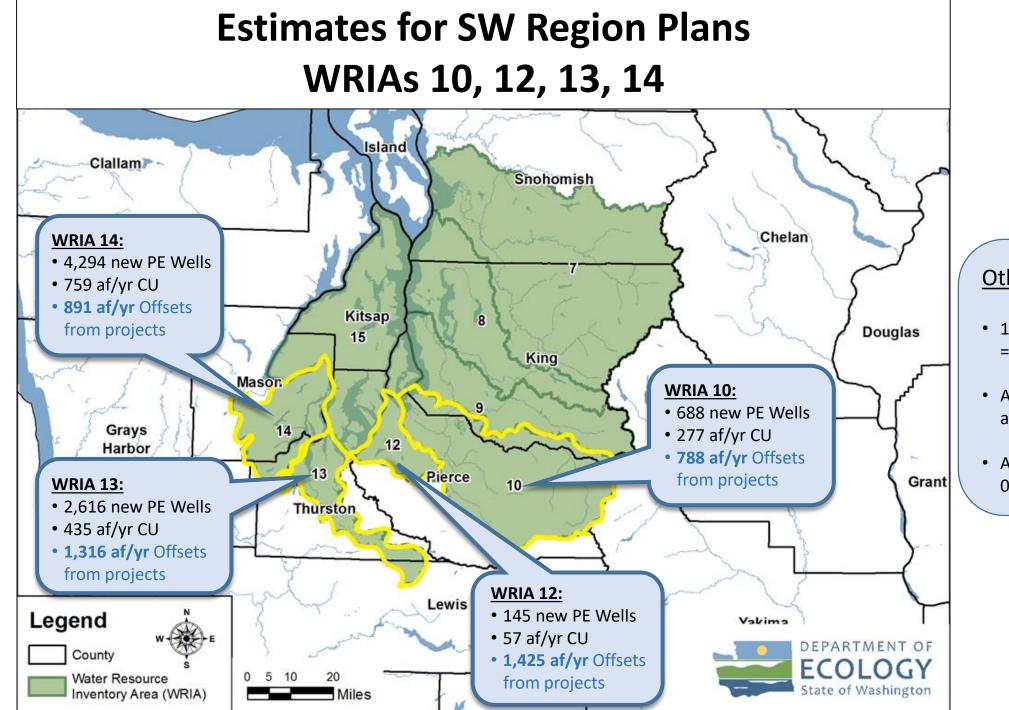
Types of Projects and Actions

- Water Right Acquisition Offset Projects
- Non-Acquisition Water Offset Projects
- Habitat and Other Related Projects
- Regulatory Action/Policy Recommendations

Adaptive Management

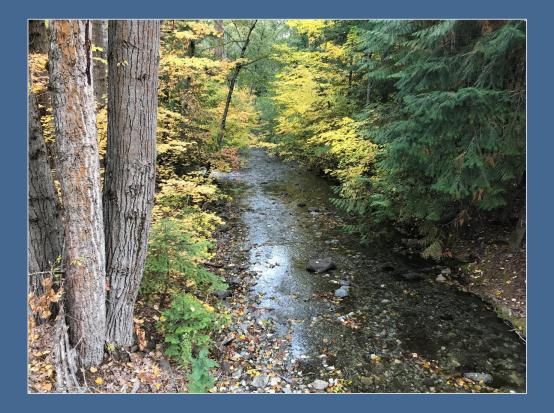
- Committees included adaptive management components to help address uncertainty and provide more reasonable assurance for plan implementation. Examples include:
 - Project and action tracking
 - PE well tracking
 - Reporting
 - Funding





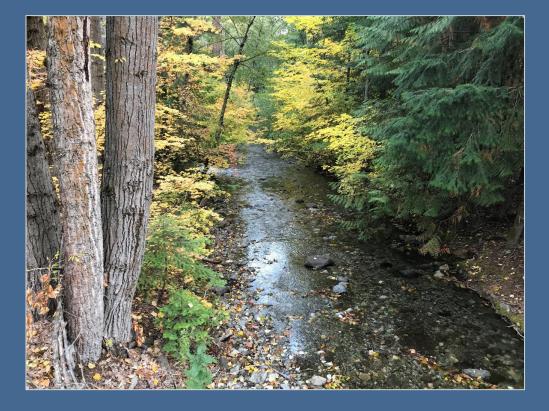
Other information:

- 1 cubic foot per second (cfs)
 = 724 acre-feet/year (af/yr)
- Average yard size irrigated area: 0.10-0.27 acres
- Average water use per well: 0.17-0.40 af/yr



Status and Steps to Completion for WRIAs 10, 12, 13, 14

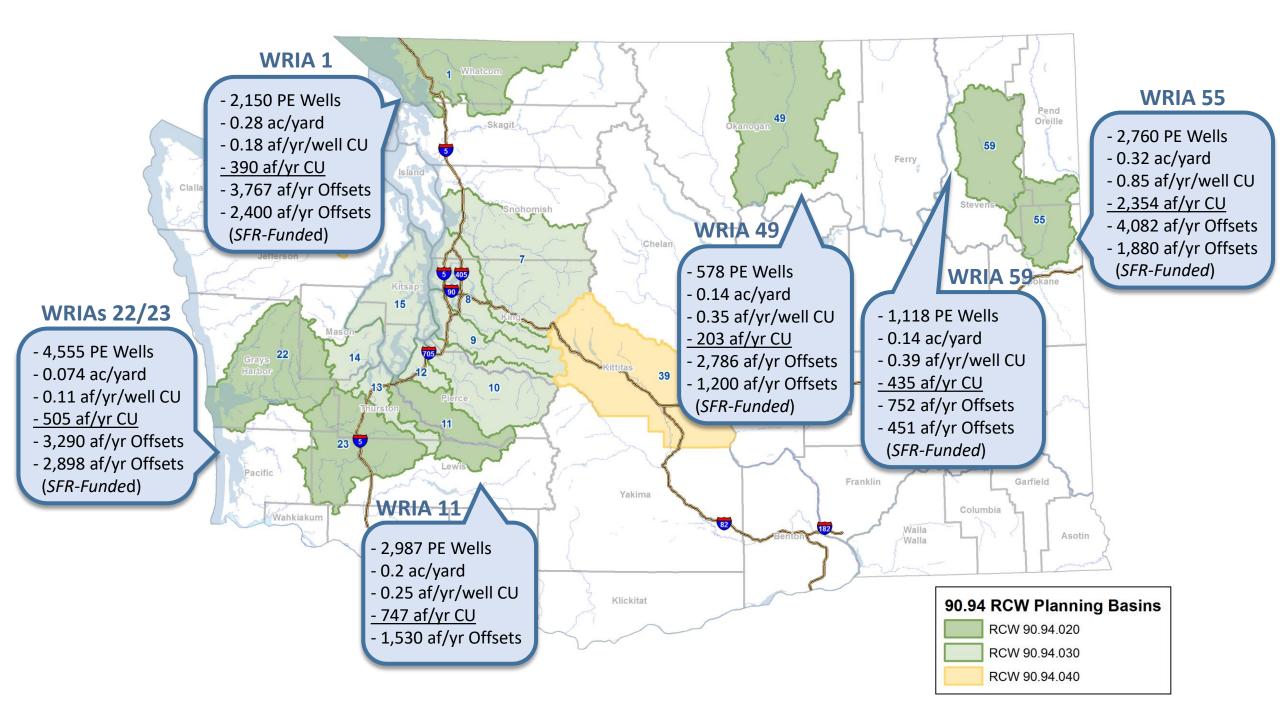
- The Committees met over the last 2.5 years to develop watershed plans.
- Final draft plans have been distributed for local review.
- Committee members will meet (virtually) for the final vote on the plans in late April.
 - If all members of the Committee **approve** the plan, the Committee chair will submit the plan to Ecology for review and NEB determination.
 - If the Committee does not approve the plan, or Ecology cannot adopt the plan, then RCW 90.94.030 (3)(h) mandates that Ecology prepares the final draft plan and submits it to SRFB who then conducts a technical review of the submitted plan and prepares recommendations. Ecology then considers those recommendations, potentially amends the plan, and then adopts it. Ecology must then initiate rulemaking within 6 months.



What is the Status?

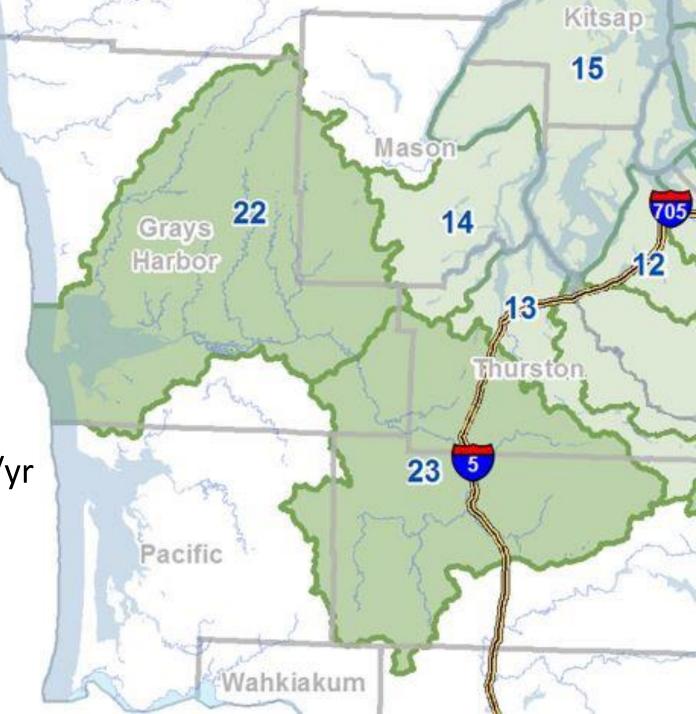
39 Months In...

- Legislative deadline for seven watersheds to address 90.94.020six were adopted, one was not (*rulemaking in 2020*).
- Remaining eight watersheds working to address RCW 90.94.030 requirements.
 - 1 locally approved plan
 - 7 final votes in April
- Two grant rounds complete (*approximately \$43 M awarded*)



WRIAs 22/23: By The Numbers

- Projected PE Wells: 4,555
- Avg Yard Size: 0.074 ac/yard
- CU/Well: 0.11 af/yr (0.00015 cfs)
- Total CU/Year: 505 af/yr (0.697 cfs)
- Total Offsets: 3,290 af/yr
 - 4.54 cfs
- SFR-Funded Total Offsets: 2,898 af/yr
 - 4 cfs



Core Offset Projects

Project ID	Project Name	Water Offset (af/yr)	Certainty of Implementation	Certaint of Wate Benefit
Black River	Tropertunit	18.7	mprementation	trantent
B-00	TC #91 Holm Farm Ditch Removal and Floodplain Reconnection	6.8	М	м
B-05	Albany Street Stormwater Pond	11.9	H ¹	М
Chehalis-Salzer		0		
CS-00	Berwick Creek Flood Reduction Restoration (Port of Chehalis)	NQ ²	Н	М
CS-03	Flood Hazard Reduction Master Plan and Chehalis Wastewater Treatment Plant Project	NQ	М	М
East Willapa		2.5		
EW-00	Garrard Creek Floodplain Restoration Opportunity Assessment	2.5	Н	м
Hanaford		1.5		
H-00	China Creek Phase 2 wetland restoration	1.5	Н	М
Humptulips		0		
HT-00	Ocean Shores Water Reclamation and Reuse ³	0	M	L
Newaukum		286.3		
N-00	City of Chehalis Water Supply Diversion Relocation	280	М	Н
N-12	Beaver Dam Analog Pilot Implementation	6.25	Н	М
Satsop		0		
S-00	Satsop/Wynoochee Tributary Assessment	NQ	Н	М
S-02	Lower Satsop Restoration, Protection, and Aquifer Recharge-Phase II	NQ	Н	М
Scatter Creek		78		
SC-01	TC #90 Weins Farm Restoration	5	M	L
SC-02	TC #89 Upper Scatter Creek MAR	26.8	M	М
SC-03	TC #81 Sampson Wetlands Restoration and MAR	46	M	М
Skookumchuck		2,898		
SK-00	TransAlta Water Right Acquisition	2,898	Н	н
Wynoochee		0		
WY-02	Satsop/Wynoochee Tributary Assessment	NQ	Н	М
Basinwide Conce	epts	2.5		
BW-00	Beaver Dam Analog Implementation	NQ	М	М
BW-03	Eager Beaver Collaboration	NQ	н	М
BW-05	Stormwater Recharge Opportunity Assessment	2.5	М	м
BW-06	Trust Water Rights Acquisitions	NQ	м	Н
Totals		3,290		

Core Offset Projects by Subbasin

Consumptive Use & Offsets by Subbasin

