





CONSERVATION DISTRICTS
OF WASHINGTON STATE

your window to healthy lands



Levi Keesecker, PhD
Science Hub Lead & Ecosystems Manager
WA Conservation Commission

# Our Voluntary Conservation Community

### Voluntary Stewardship Program

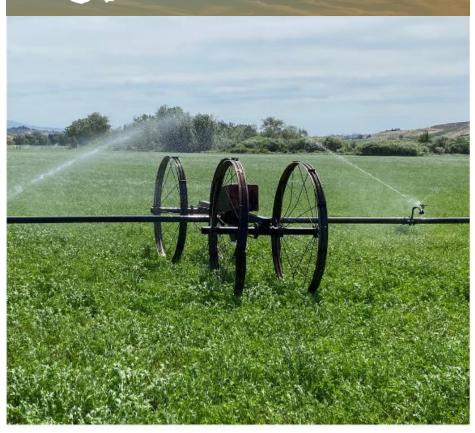
Science Hub











#### **ABOUT US**

The Washington State Conservation Commission (SCC) is the coordinating state agency for all 45 conservation districts (CDs) in Washington.

Together, SCC and CDs provide voluntary, incentive-based programs that empower people to practice conservation and ensure healthy natural resources and agriculture for all.

# Who is the Washington State Conservation Commission?





Governor Appointee



Governor Appointee







Dept. of Ecology Appointee







WACD President



Conservation District Representative



Conservation District Representative



Conservation District Representative

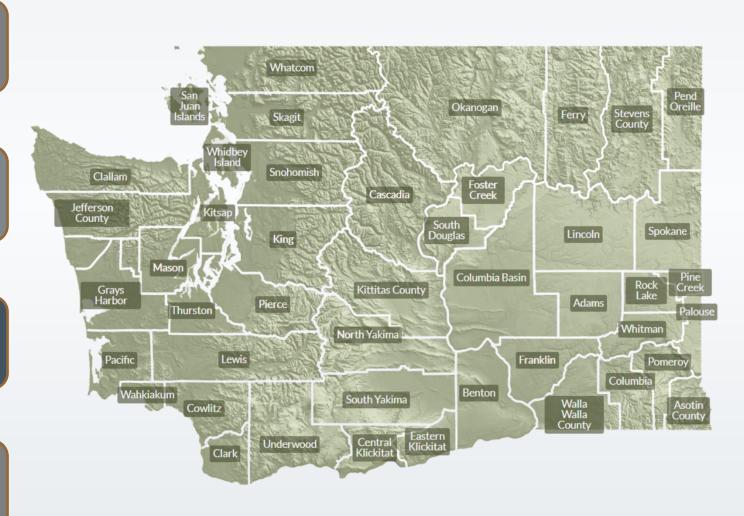
#### What are Conservation Districts?

Community-based hubs of natural resource expertise & funding

Staffed and led by locals who understand needs of landscapes and community-members

Enhance agricultural viability and food systems

Assist with implementing conservation practices



# **Voluntary Conservation**

#### Riparian Restoration on Working Lands

#### **Watershed and Riparian Restoration**



Whatcom CD

200+ acres along the Nooksack River

**Salmon Recovery** 



Benton CD

#### **Habitat Fencing for Livestock & Streams**



Palouse CD

Rotational Grazing & Habitat Protection

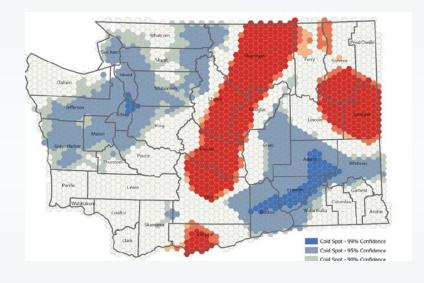
Collaboration to remove invasive species

#### Climate Resilience

#### Community Stewardship & Education



Wildfire Education & Mitigation Planning, coordination, and preparedness





Biochar & Beyond
Climate-smart farming statewide
Biochar, shared equipment, and soil improvements
Greenhouse gas reductions & sequestration



# Food Systems & Viability

#### Strong Farms, Healthy Communities



**Recovering After Disaster** 

Disaster Assistance Program helps producers rebound from floods and drought

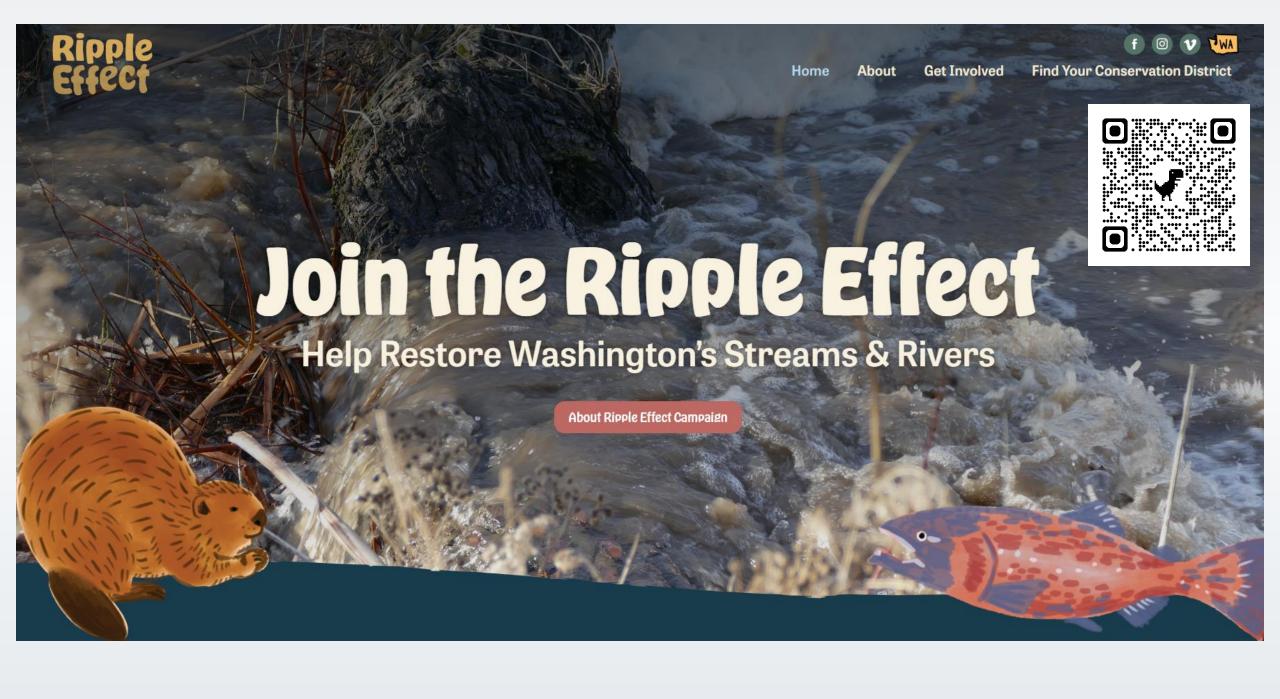
Equitable disaster recovery



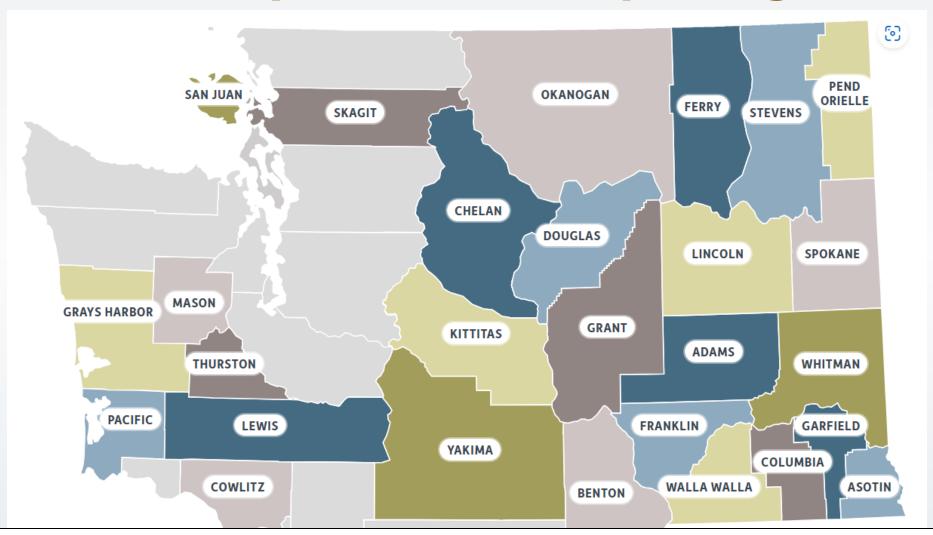
**Farmland Forever** 

2,576 acres were protected in Yakima County 40 acres in Klickitat County

Agricultural easements, preserving working lands Making way for new producers



# **Voluntary Stewardship Program**



Critical area functions and values are protected or enhanced at the watershed scale relative to July 2011

# **Apply a Scientific Lens**



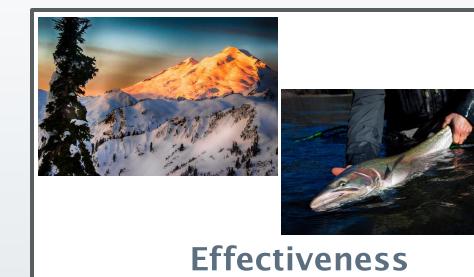


**Community & Participation** 





**Agricultural Viability** 







**Implementation** 

# Watershed Work Groups

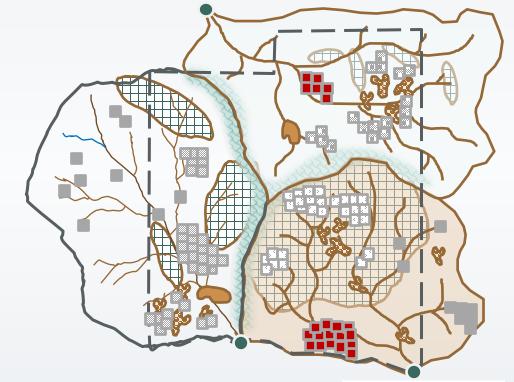


























Spokane VSP member affiliations



### What is the Science Hub?

Demonstrate co-benefits of conservation practices within watersheds



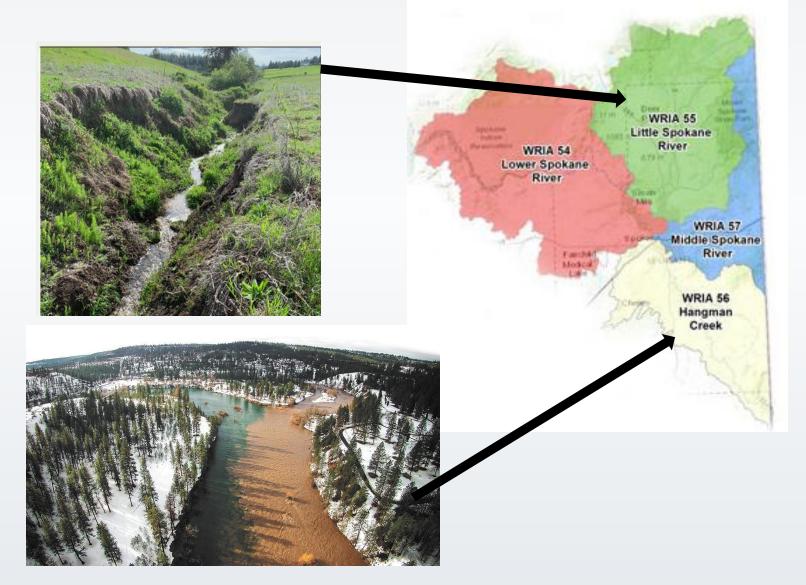




Proviso - \$1 million (2023-2025)



# **Focal Watersheds**



### Hangman & Little Spokane Watersheds

Prioritization



Wetlands

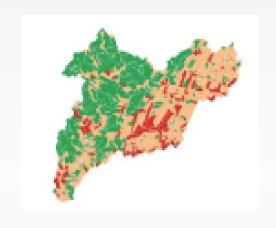




Food Security & Viability



**Erosion & Soil Health** 



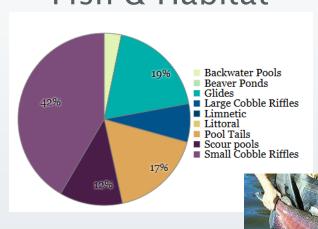
\$\$\$ & Incentives



**Trust & Relationships** 

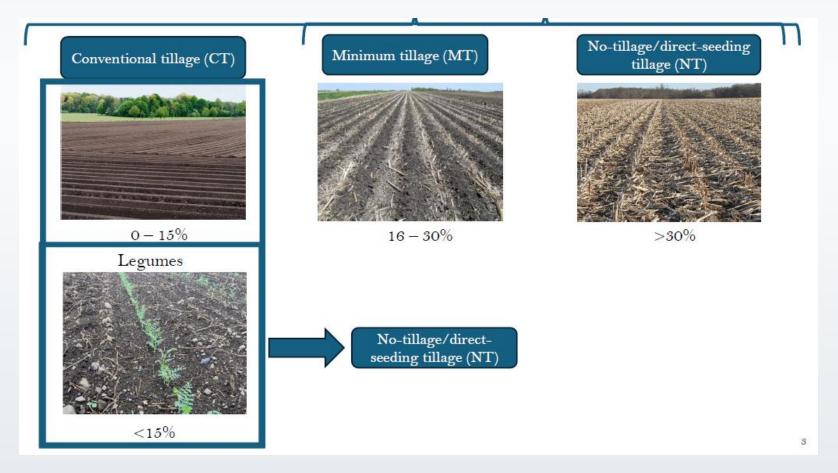


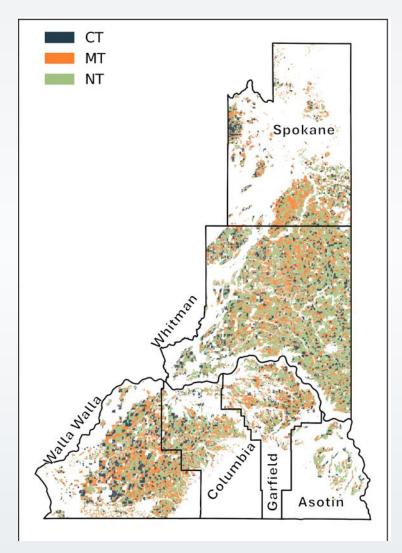
Fish & Habitat





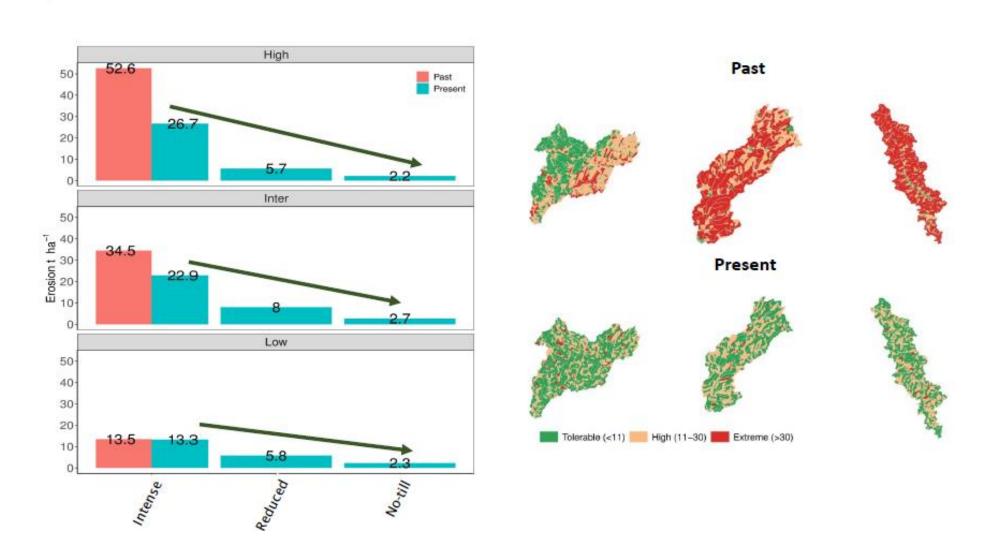
# Regional-scale Mapping of Tillage Practices in Areas with Crop Diversity Using a Satellite-Imagery-based Classifier





#### **Erosion**





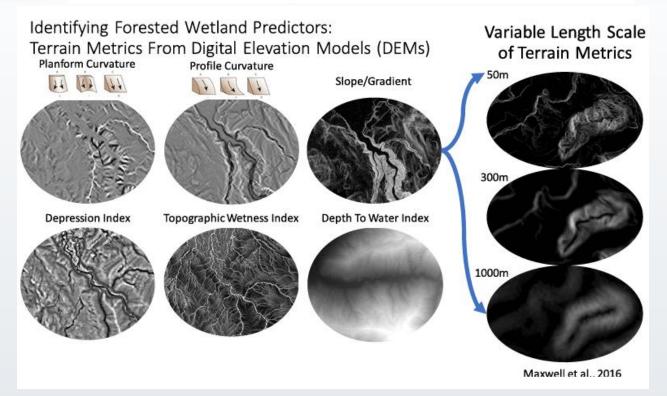


# Spokane Co. Hangman & Little Spokane watersheds



#### Wetland Intrinsic Potential (WIP) Tool

Halabisky et al., 2022 (In Review)







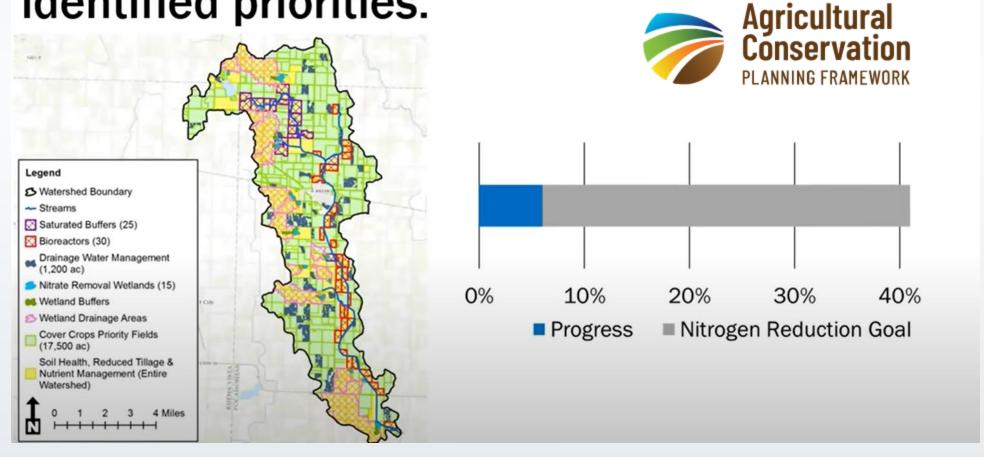
# Watershed Planning & Prioritization







The watershed implementation plan identified priorities.



# **Watershed Monitoring**





#### **Biofarming & Regenerative Ag**

- Soil chemical & physical properties
- Water dynamics
- Soil microbiology
- Plants
- Invertebrates
- Birds
- Crops and Forage
- Economics







#### \$\$\$ & Economics

#### Riparian Incentive Programs

Opportunities for Washington State



#### **Key Messages:**

#### Flexible design

Adaptive management

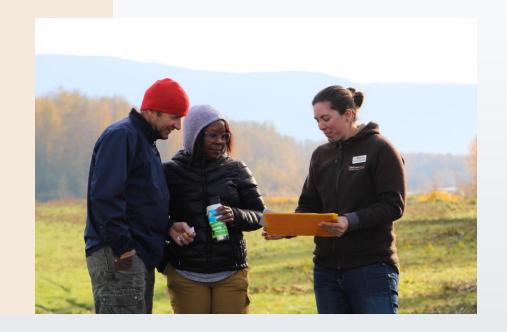
\$\$ based on performance and lost revenues

#### Catalyze resources

\$\$ for outreach, education & monitoring Coordinating partnerships

#### **Engender trust**

private owners & orgs/gov't tax benefits and incentive structures increase connection to local watershed





# **Community & Participation**









Voluntary

Locally-led

Landowner Initiated

**Inclusive** 

#### **Coordinated Resource Management**

- A voluntary collaborative problemsolving process for resource management issues
- Built on trust & relationships









**Training** 

Resources

Amplify what is learned

Share with each other

Apply to our work





# Applying resilience thinking

Seven principles for building resilience in social-ecological systems

Broaden participation



Promote polycentric governance - from watersheds to regions

Utilize adaptive management



Manage for connectivity - across landscapes and between people & orgs

Maintain diversity and redundancy – farming practices, functional roles, approaches



# Science can help us tell the story of voluntary conservation

We have the tools needed

Collaboration & strategic coordination is key











**IOWA STATE** 







Columbia Conservation





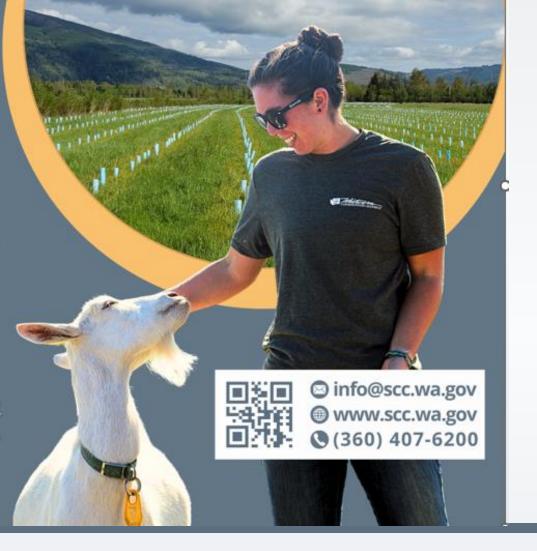












# Thank you!

#### **Contact:**

Levi Keesecker, PhD Science Hub Lead

lkeesecker@scc.wa.gov 360-789-3650

