



Large-Scale Floodplain Revegetation



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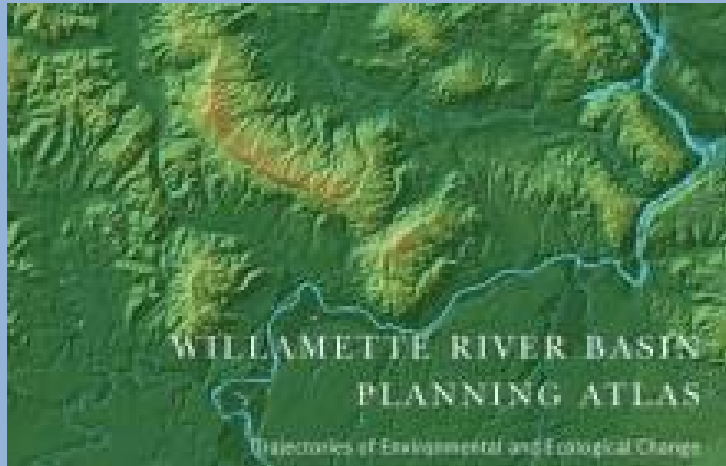


An aerial photograph of a wide river and its floodplain. The river is in the foreground, with muddy water. The floodplain is a mix of green fields and brown, silty areas. In the background, there are green hills and a small town. A blue semi-transparent box is overlaid on the middle of the image, containing text.

Project Goals

- Increase Floodplain / River Connectivity
- Create 400 Acres of Floodplain Habitat
 - Driven by Declining Salmonids

Goal Development



Reviewers & Funders



Landowner Meetings



Biological Inventories



Research & Demos

Need for Cross-Discipline Collaboration
Trials to adapt Ag techniques to restoration projects

A photograph of a dense forest with tall trees and a thick canopy of green leaves. A semi-transparent green rectangular overlay covers the top half of the image, containing the title and a list of references. The bottom half of the image shows a close-up of large, green, lobed leaves, likely from a maple tree, in the foreground.

Plant Materials

- Reference Forest Stands
- USDA Field Guide to Riparian Plant Communities in Northwestern Oregon
- BEF Collaborative Grow

Challenges with Scaling-up





Restoration has a Success Problem



Introducing AAA Restoration

Adapting Agricultural Axioms / How would a farmer do it?





Layout

- 12 – foot Rows



- 6 – foot seeding



“The Bio-Barrier”

- 3 – foot spray band





Sureguard – Preemergent herbicide

- 24(C) Special Local Needs Label
 - Season-long weed control
 - Applied in off-season
- 
- A wide-angle photograph of a large agricultural field. The field is filled with rows of young, vibrant green plants, likely corn or soybeans, spaced evenly across the landscape. The rows recede into the distance, creating a strong sense of perspective. The sky above is overcast with soft, grey clouds. In the far background, a line of trees and utility poles are visible against the horizon. The overall scene depicts a well-maintained and productive farm.

Selective Herbicides

- Grass specific
- Broadleaf specific
- ATV is 7x cheaper vs hand spraying





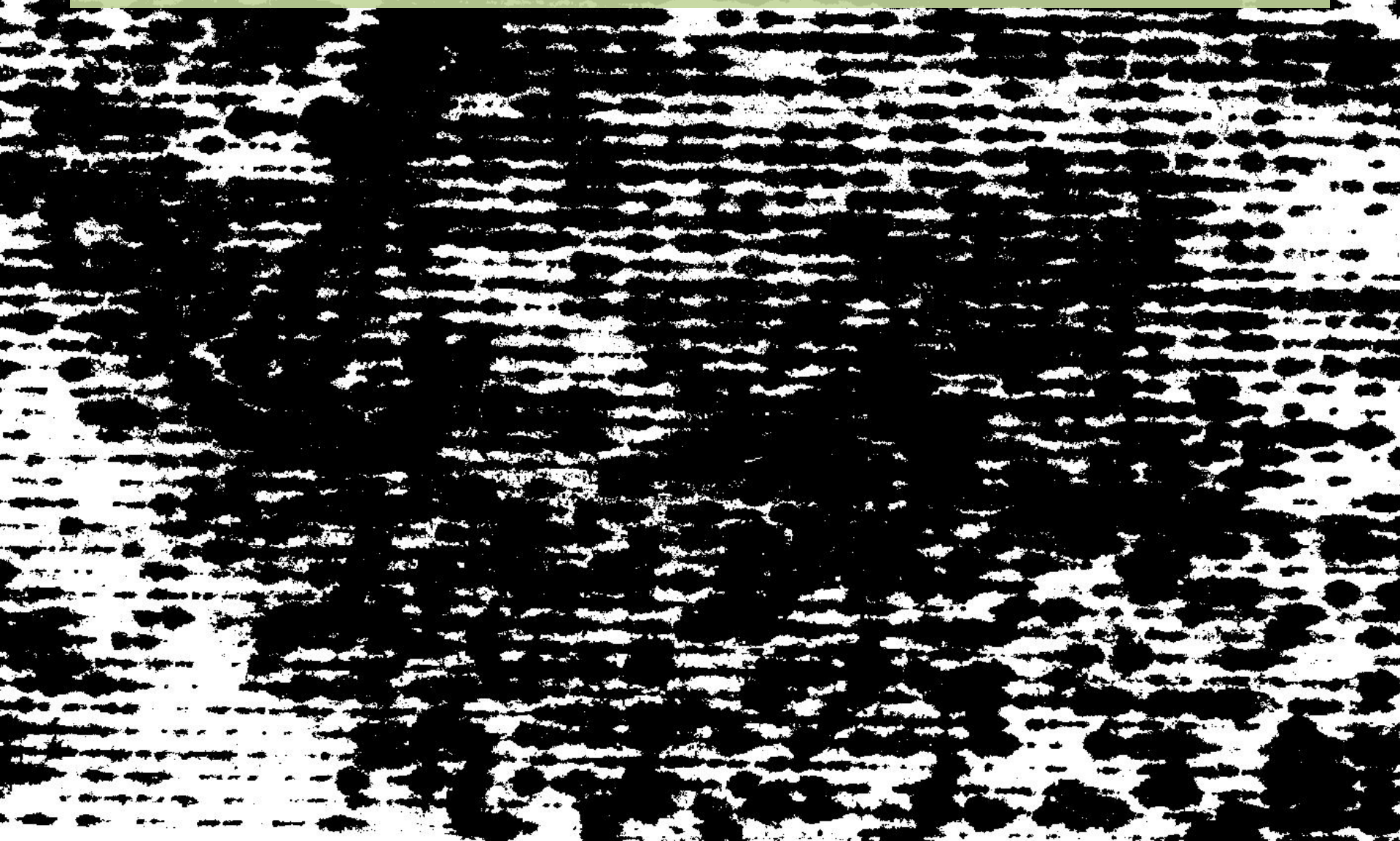
Thinning



Drone Monitoring



Canopy Analysis w/ GIS



An aerial photograph showing a wide river flowing through a landscape. On the left bank, there are large, rectangular tea fields with distinct rows of tea bushes. The right bank is covered in dense forest with trees showing autumn colors in shades of yellow and orange. In the background, there are rolling hills and a small town or village. The sky is overcast.

Challenges

- Social constraints
- Labor / turnover
- Herbicide expertise
- Disincentives
- Sunk cost trap



Opportunities

- Deep Partnerships
- Precision Ag