



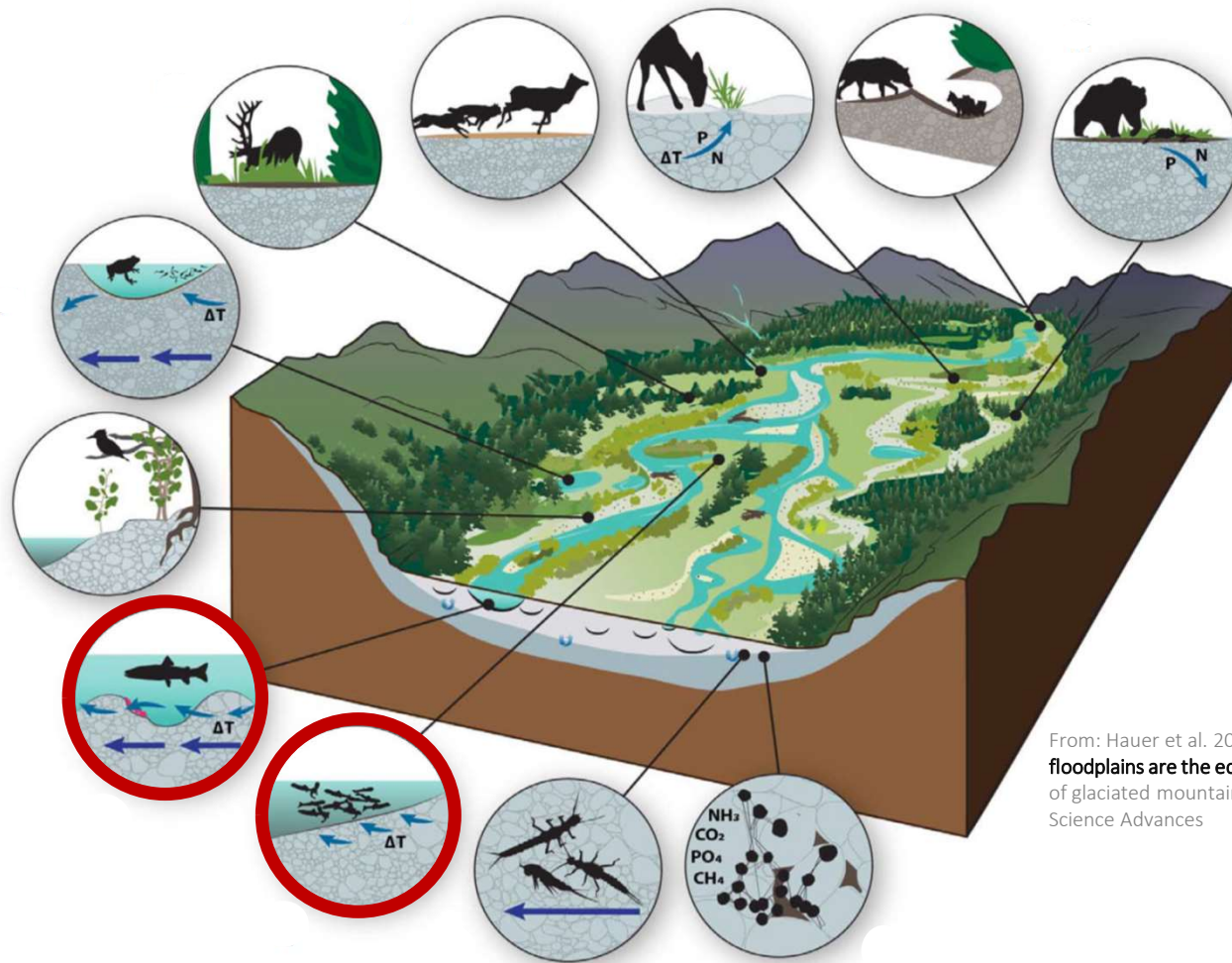
# Why Floodplains Matter

✧ *thinking outside of the channel* ✧

Janine Castro

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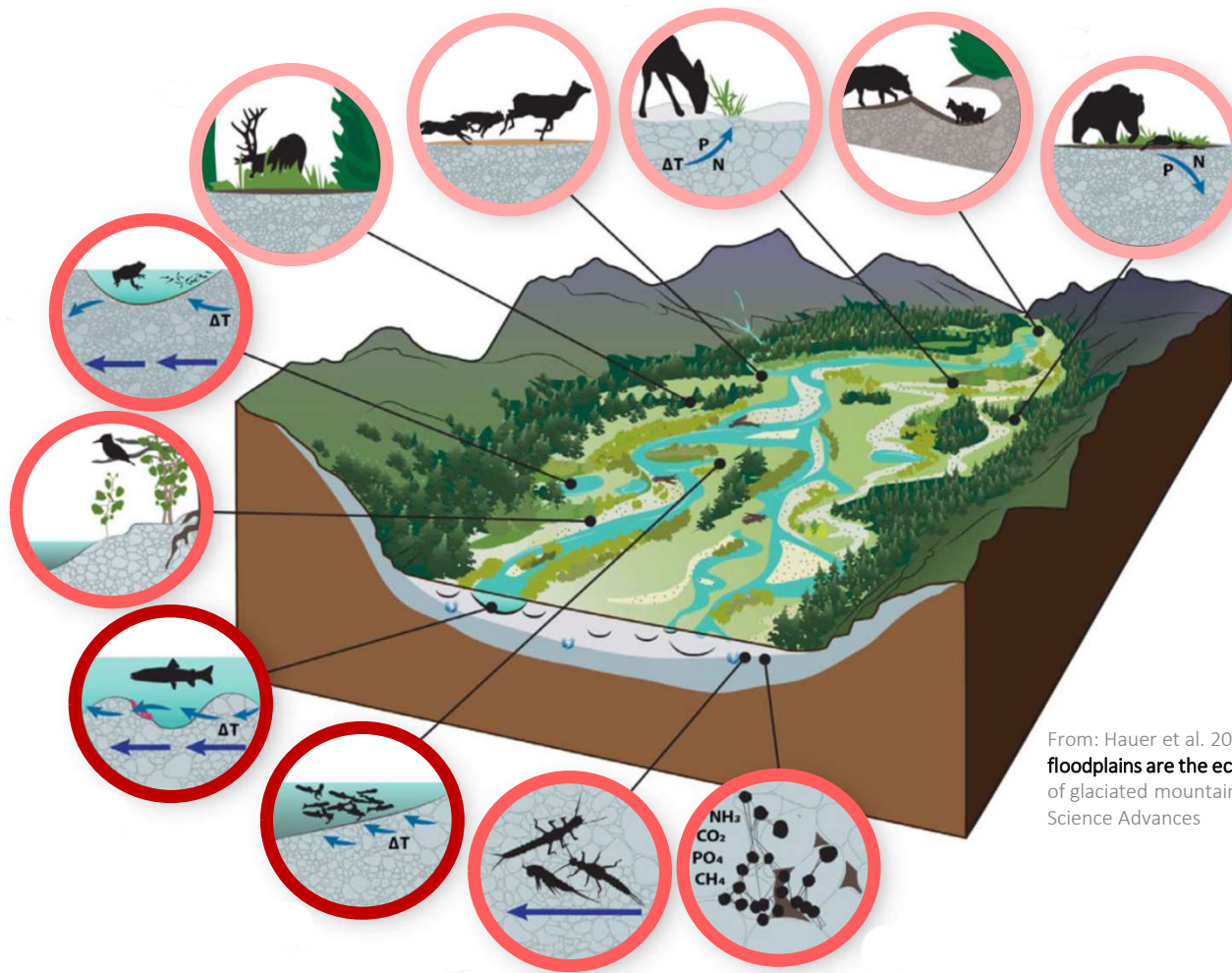


From: Hauer et al. 2016 Gravel-bed river  
**floodplains are the ecological nexus**  
of glaciated mountain landscapes.  
Science Advances





Study by Jacob Katz, CalTrout, comparing three weeks of growth between juvenile Chinook salmon rearing on and inundated floodplain, irrigation canal and mainstem river (Feather River System)

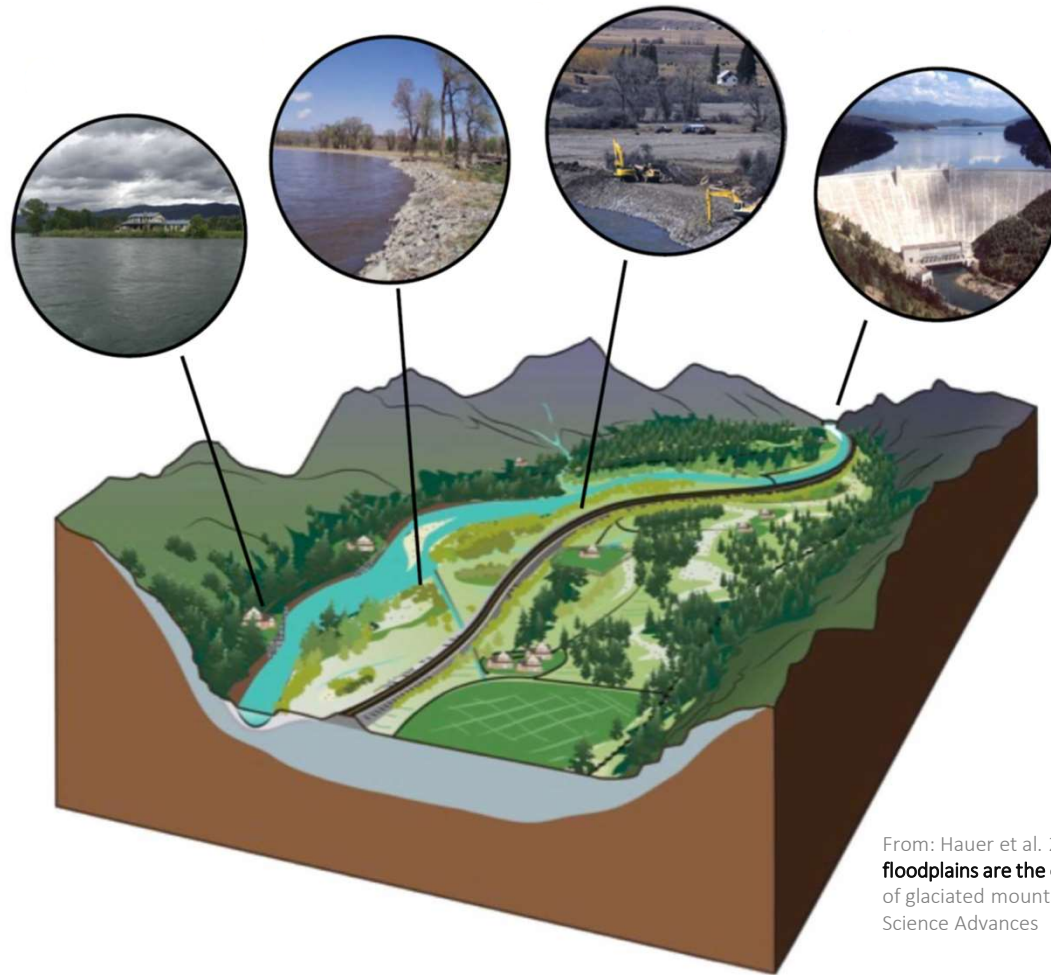


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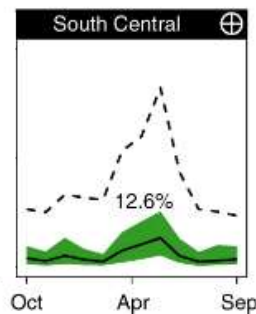
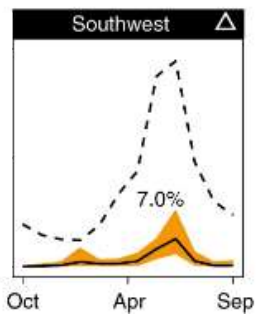
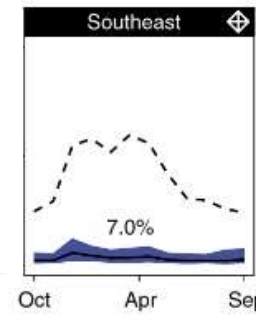
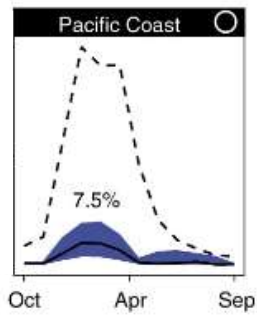
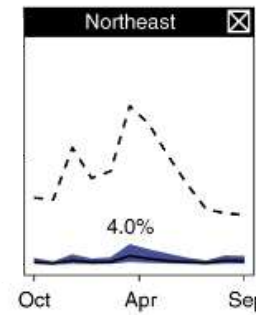
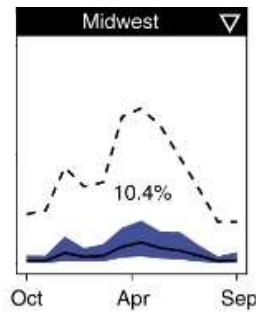
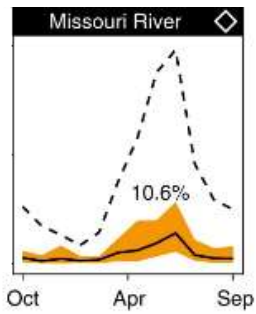
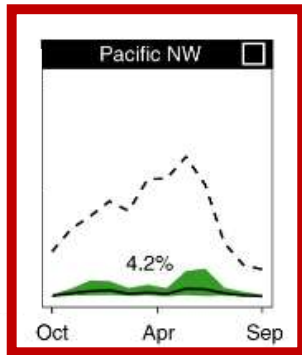




Modified from: Wohl, Castro, Cluer, Merritts, Powers, Staab, and Thorne. 2021. Rediscovering, Reevaluating, and Restoring Lost **River-Wetland Corridors**. *Frontiers in Earth Science*.



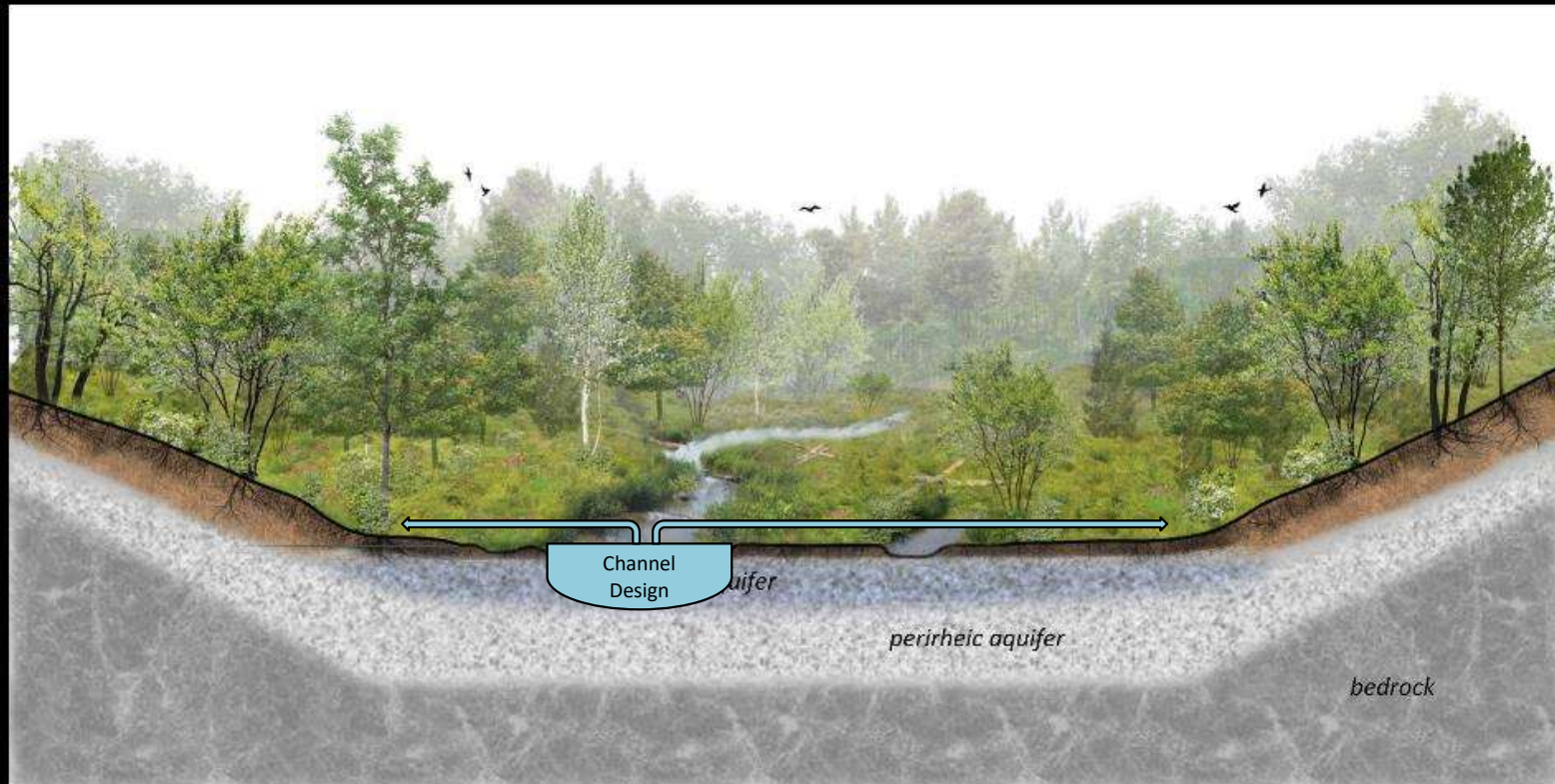
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Science Advances



-- Monthly total flow fraction  
 — Monthly floodplain flow fraction  
 % Percent annual floodplain flow

Modified from: Scott, Gomez-Velez, Jones, and Harvey. 2019. **Floodplain inundation spectrum** across the United States. Nature Communications.





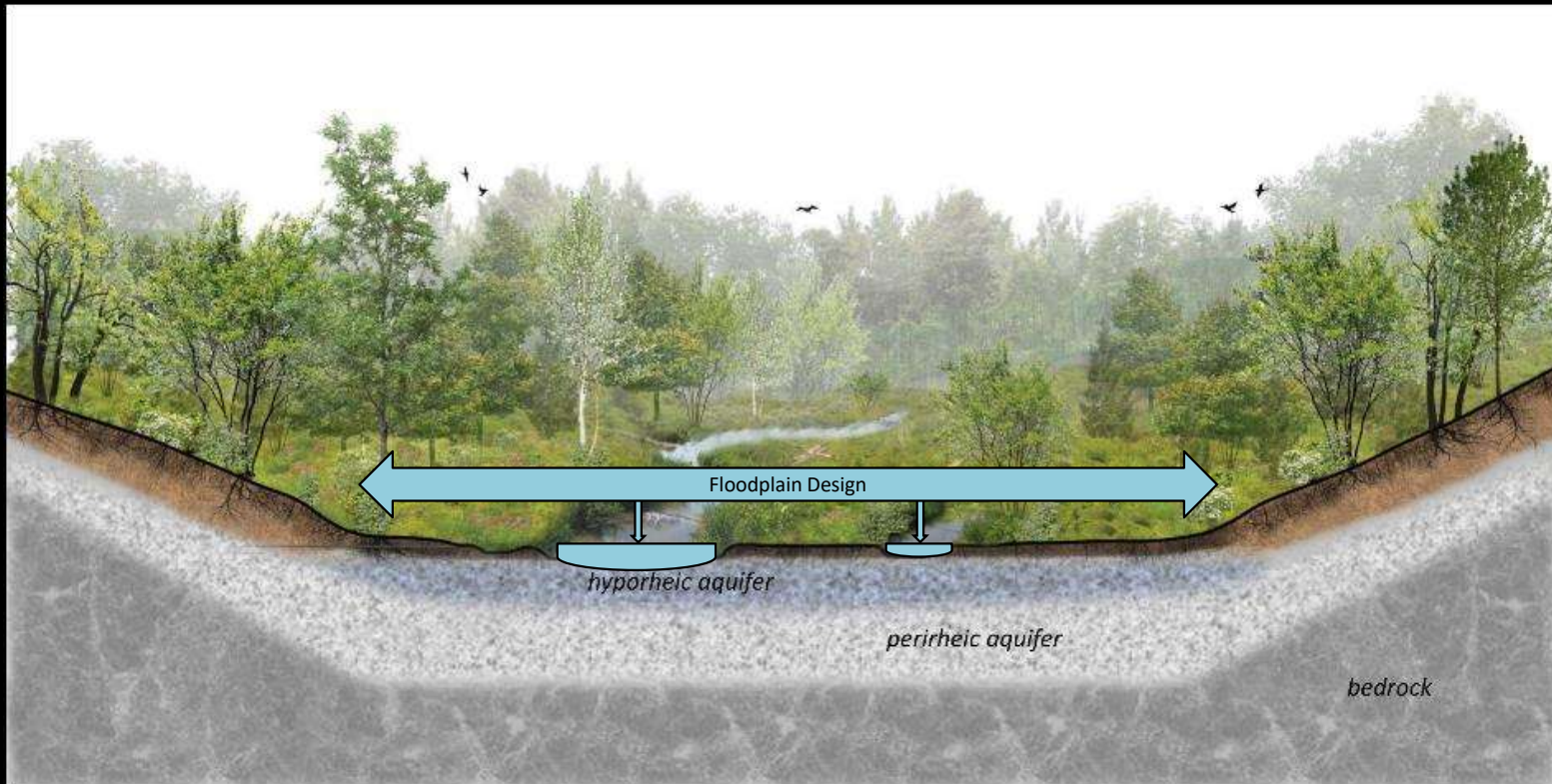
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Johnson Creek, Oregon







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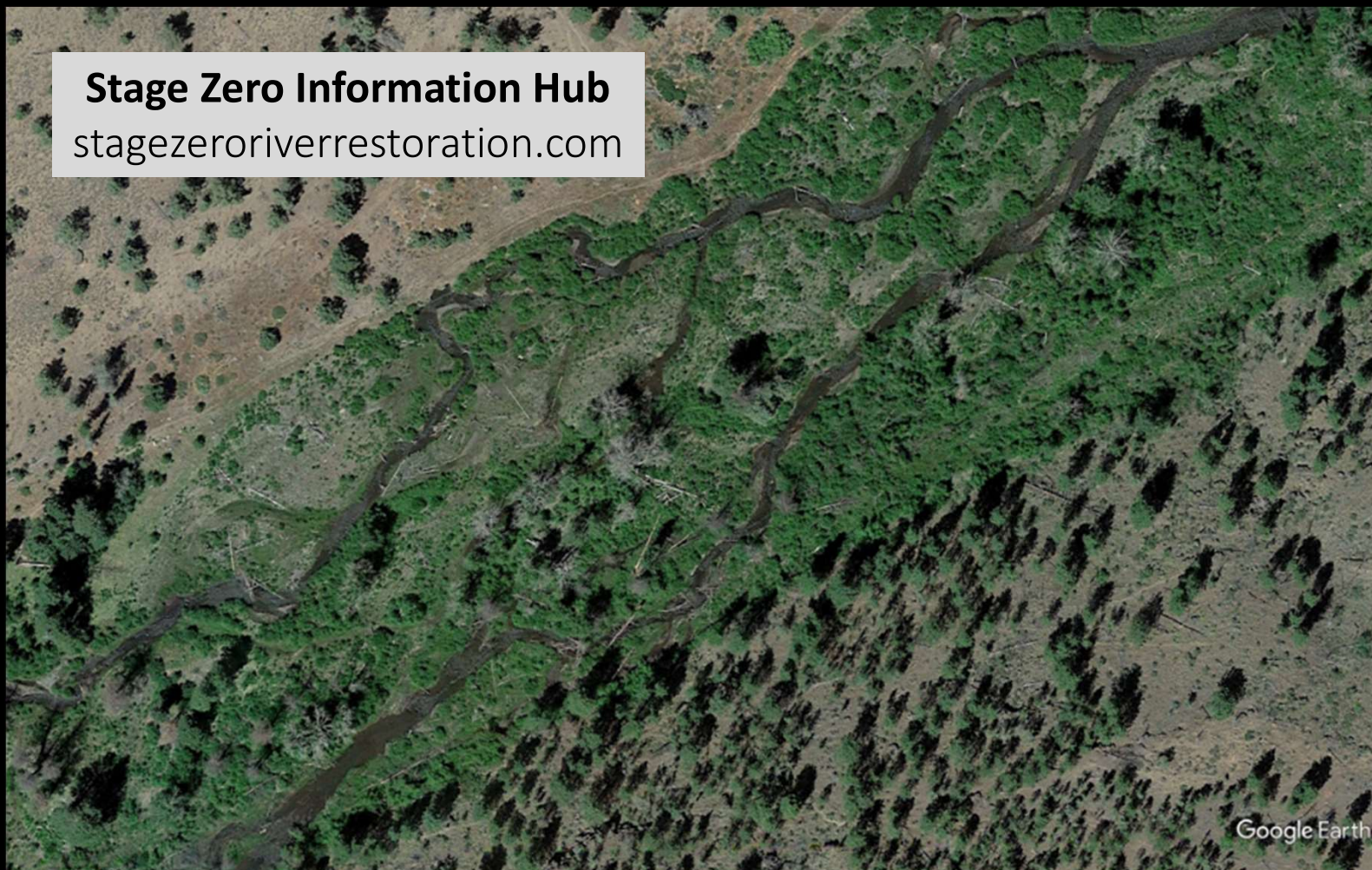


Whychus Creek, Oregon





**Stage Zero Information Hub**  
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