

Making Connections Between Healthy Sierra Nevada Headwaters and Water Supply/Hydropower Value



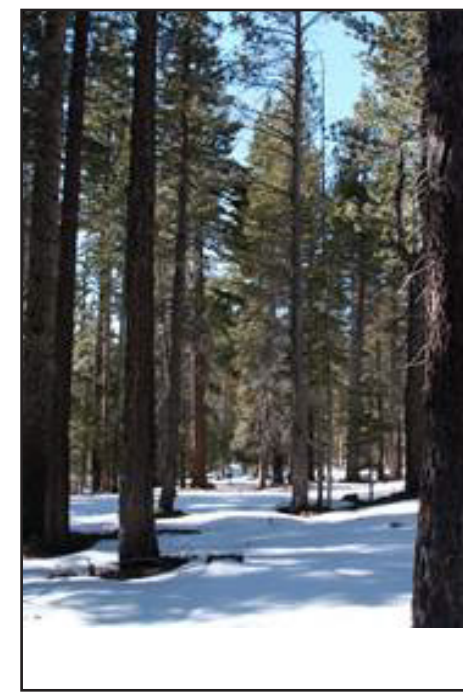
Most people don't know where their water comes from. See TNC website for information.



Reduce wildfire risk
Need to treat 20% of landscape
Finney et al. 2006, Ager et al. 2007



Not thinned



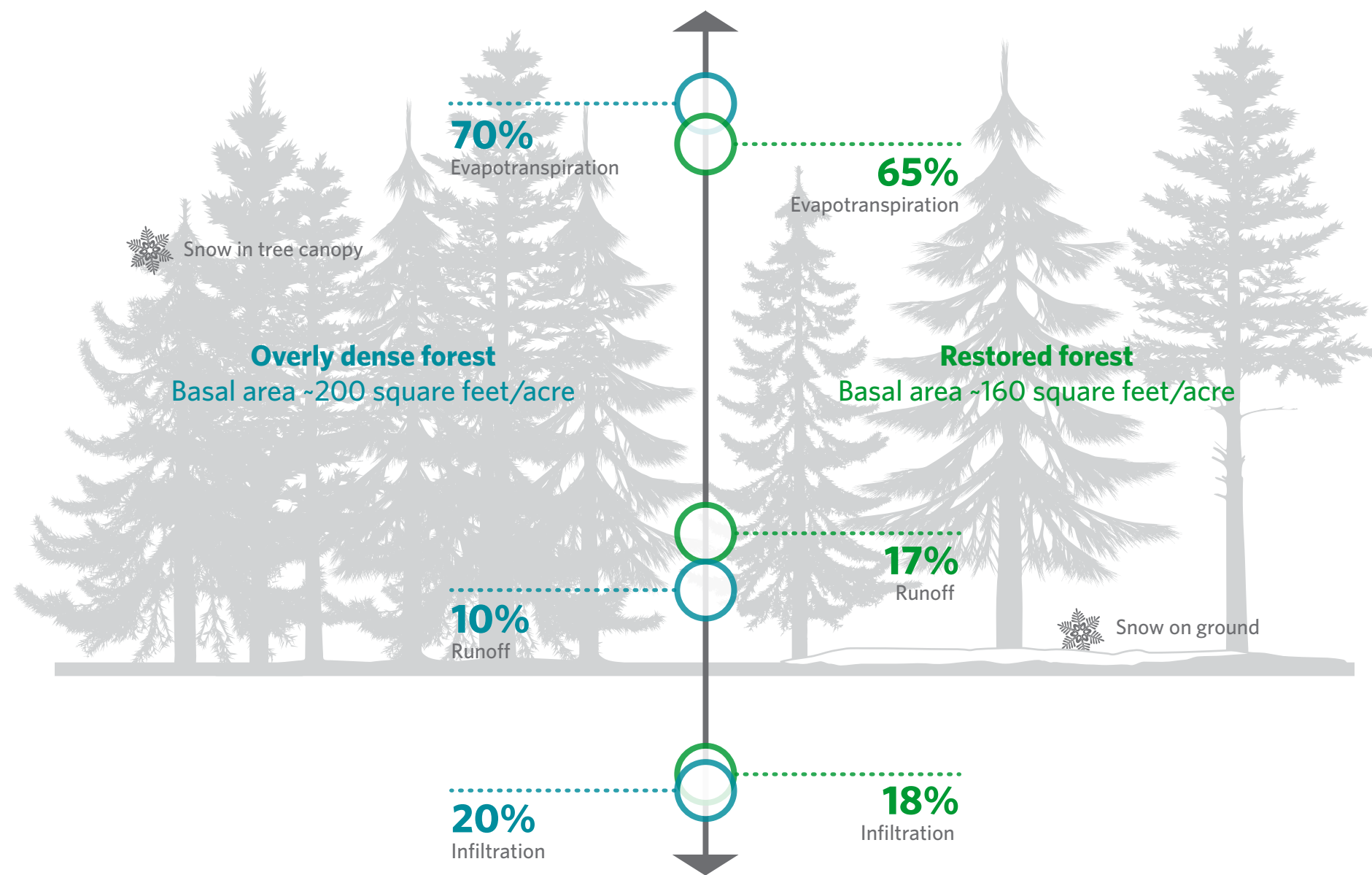
Thinned=more snow= more runoff

Independence Lake - The Nature Conservancy
*thinning funded by Truckee River Fund, water utility



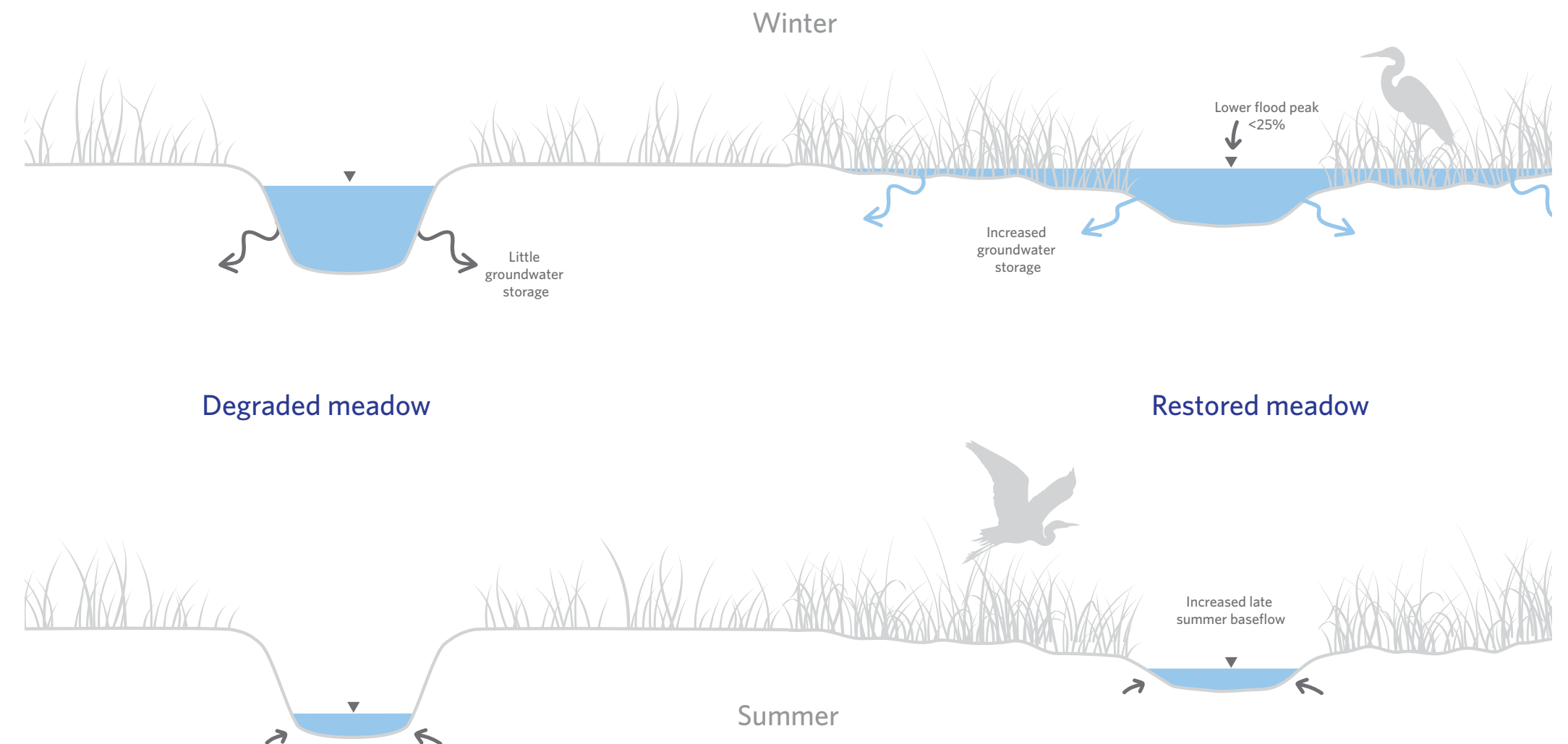
Meadow restoration at Perazzo Meadow with "pond and plug" restoration

Forest Thinning



*Basal area is the cross sectional area of tree trunks within a forest area.

Meadow Restoration



0.1-0.4 acre feet/acre thinned (paired basin studies)
Assume 20-30% basal area reduction (GTR 220, 237)

0.5-0.7 acre feet/acre shift in water timing from winter to summer from restoration (Tague et al. 2008, Plumas Corp. 2004)