Newsletter

Week 45, 2023





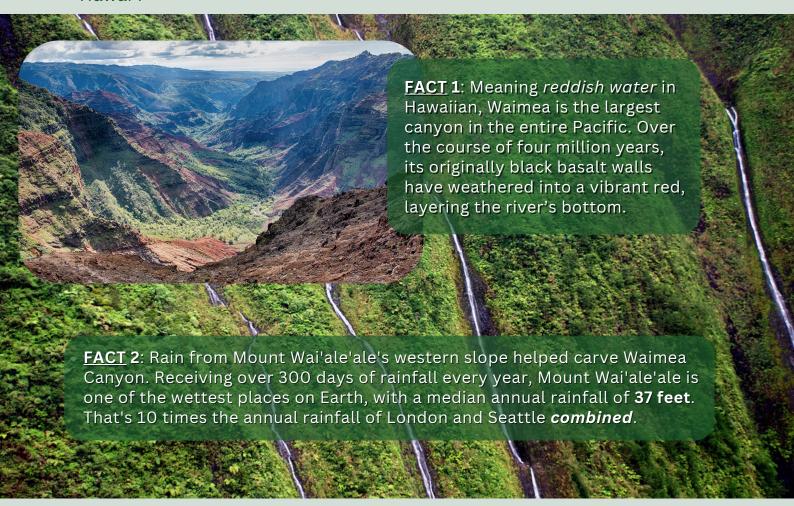
Don't forget that US military veterans and Gold Star Families automatically qualify for a free lifetime <u>pass</u> to access over 2,000 federal recreation sites across the National Park Service, US Forest Service, US Fish and Wildlife Service, and other federal agencies.

FEATURED PARK



Photos and facts of your favorite parks, one issue at a time

Waimea Canyon State Park Hawai'i



Nominate your favorite local, state, or national park here so our subscribers can learn about it.

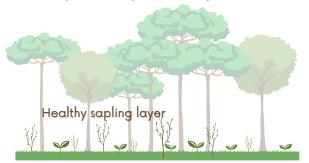
PARK PERKS



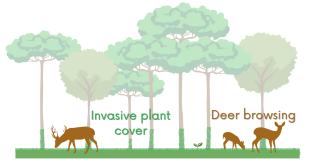
While the abundance of mature trees is an obvious measure of forest health, new tree growth is a key factor as well. A March <u>article</u> published in the journal *Ecological Applications* examined forests in 39 eastern US National Park Service (NPS) sites to determine their *regeneration debt*, or the difference in tree regrowth between successive forest layers. The NPS research team used measurements of tree status and size over the last 12 years to estimate each park's regeneration status. They then used a statistical model selection approach to identify the factors most responsible for gaps in regeneration.

Forest Regeneration Debt

Accounting of seedlings and saplings in 39 eastern US national parks



Secure or insecure regeneration (found in 31% of parks)



Probable or imminent failure (found in 69% of parks)

The authors found that deer browsing and invasive plant cover, both of which limit the growth and density of native tree seedlings, are the two largest predictors of forest regeneration debt. In 69% of the studied parks, tree regrowth was so low that forest status was classified as either *probable failure* or *imminent failure*. Only one of the 39 sampled parks was *secure*.

The research team argues that proactive management will be crucial to the continued health of eastern US forests. Only nine of the studied parks, however, currently have active deer control programs, and continued budget cuts impede expansion of additional forest restoration efforts. Given these limitations, support for conservation in eastern US parks, many of which are less well known than their western counterparts, is more important than ever.



SHUTDOWN PERILS

Veterans looking to use the lifetime <u>pass</u> they have earned will be impacted by park closures, as will research teams, vacationers, field trip students, and even wedding couples.

<u>Join</u> the Institute's partner, NPCA, in urging Congress to prioritize our parks.