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· Rainbow trout are native to the Pacific Northwest, but are commonly stocked in the region as game fish, including into formerly fishless lakes. Transplanting species can disrupt native ecosystem processes and result in reductions to biodiversity.

Certain avian predators are also native invaders. "Caspian terns are native birds, but since the 1980s they've established new colonies in the Columbia River estuary. Dredge spoil islands have created good breeding habitat for the terns and their populations have grown quite large. Terns nesting along these spoil islands consume millions of salmon each year," says Katie Barnas, fisheries biologist at the Northwest Fisheries Science Center.

Sea lions and harbor seals can also cause problems for threatened and endangered salmon in the Northwest. They take advantage of Pacific salmon as they congregate at fish ladders below dams at what can be described as "salmon buffets."

What's next?

Many of these invasive species were introduced intentionally before natural resource managers understood the negative impacts of non-native species establishments. For others, such as walleye, the pathway of introduction is unclear. "It is hard to estimate the impacts that fish like walleye have on salmon populations, because we don't even know how many walleye there are in a lake, how fast they grow, or how big they get. We need to answer these questions to understand their impacts on migrating salmon smolts," explains Sanderson.

Salmon recovery is important. They are a keystone species and the main link between marine and freshwater food webs that support Pacific Northwest ecosystems. NOAA continues to study the effects of invasive species on salmon recovery and is working to better inform the public that both native and non-native invaders are consuming young salmon and might be influencing overall recovery efforts.

For more information on NOAA involvement with aquatic invasive species issues, visit the Aquatic Nuisance Species Task Force website and see the Northwest Fisheries Science Center's Non-Indigenous Species Research fact sheet.

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