

A tale of two seagrasses: Comparing the science and management of *Zostera marina* and *Zostera japonica* in the Pacific Northwest

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On the Pacific coast of North America, at least two congeners of *Zostera* occur: native *Zostera marina*, and introduced, *Z. japonica*. *Z. japonica* is considered “invasive” and therefore, ecologically and economically harmful by some, while others consider it benign or perhaps beneficial. *Z. japonica* does not appear on the Federal or the Oregon invasive species or noxious weed lists. However, California lists it as both an invasive and noxious weed and Washington recently listed it as a noxious weed. We describe the management dynamics in North America with respect to these congener species and highlight the science and policies behind these decisions. In recent years, management strategies at the state level have ranged from protection of *Z. japonica* as a priority habitat in Washington to eradication in California. In 2011, Washington State reversed its long standing policy to protect *Z. japonica* and is developing permits for chemical control of this plant. This fractured management approach contradicts efforts to conserve and protect seagrass in other regions of the US and around the world. We recommend research actions to assist in the assessment of *Z. japonica* ecology and the immediate and long-term effects of management actions.

Presenting author status: *Faculty*

Preferred presentation type: Oral

Topic Area preference: (1) introduced species (2) conservation and management