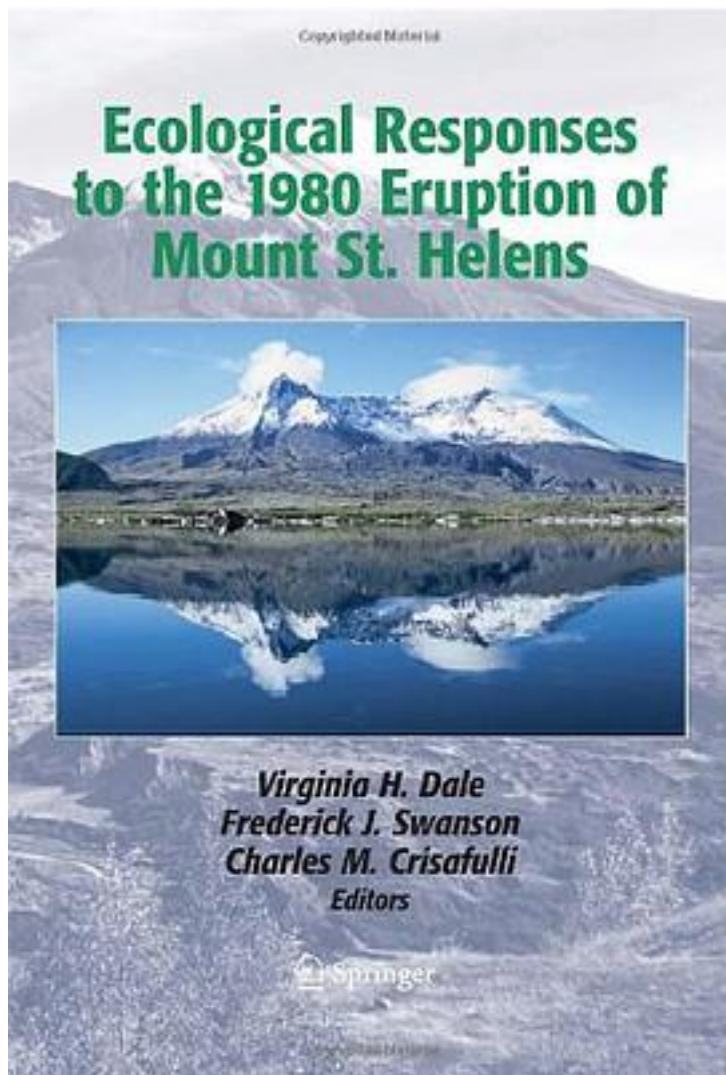


# Ecological Responses to the 1980 Eruption of Mount St. Helens



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The eruption of Mount St. Helens on May 18, 1980, had a momentous impact on the fungal, plant, animal, and human life from the mountain to the far reaches of the explosion's ash cloud and mudflows. Although this intense natural event caused loss of substantial life and property, it also created a unique opportunity to examine a huge disturbance of natural systems and their subsequent responses. Based on one of the most studied areas of volcanic activity, *Ecological Responses to the 1980 Eruption of Mount St. Helens* synthesizes the ecological research that has been conducted for twenty-five years since the eruption. Research from geology as well as plant and animal ecology has been integrated in this unprecedented look at the complex interactions of biological and physical systems in the response of the volcanic landscape. Lessons from the volcano inform our larger understanding of ecosystem disturbances, natural processes, and the impact of land-use practices. Included are results of significant and long-term research on vegetation, mycorrhizae, plant and animal interactions, arthropods, amphibians, mammals, fish, lakes, nutrient cycling, geomorphology, and environmental management. This comprehensive account will be of value to those interested in natural history, ecology, disturbance, conservation biology, limnology, geoscience, and land management. Questions about what actually happens when a volcano erupts, what the immediate and long-term dangers are, and how life reasserts itself in the environment are discussed in full detail. About the Editors: Virginia Dale is a Corporate Fellow in the Environmental Sciences Division at Oak Ridge National Laboratory. She is also an adjunct faculty member in the Department of Ecology and Evolutionary Biology at the University of Tennessee. Fred Swanson is a Research Geologist at the USDA Forest Service Pacific NW Research Station in Corvallis, OR. Charles Crisafulli is an Ecologist at the USDA Forest Service Pacific Northwest Research Station in Olympia, WA. 2007 Award of Excellence: Springer is pleased to announce that the editors and authors of *Ecological Responses to the 1980 Eruption of Mount St. Helens* have won the 2007 Technical Publication Award from the Society of Technical Communication, Willamette Valley Chapter. Springer is pleased to announce that the editors and authors of *Ecological Responses to the 1980 Eruption of Mount St. Helens* have won a 2007 Merit Award in the "Books" category of the Society for Technical Communication's (STC) International Technical Publications Competition. To read the press release, click on this link:  
<http://www.springer-sbm.com/index.php?id=291=132=0=3309=64b44bbd74>

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