### Succession

How do ecosystems develop over time?

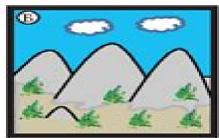
### Why?

On May 18, 1980, Mount St. Helens in the state of Washington erupted with the force of a hydrogen bomb. The volcano had been dormant for over 120 years, but now 57 people were dead and forests and lakes were totally destroyed, including nearby Spirit Lake, which became a mud hole. The blast leveled trees in areas over 10 miles from the crater and ash deposits suffocated life on the mountain. However, within weeks, mammals that had taken shelter underground started to reappear in the area, and now, over thirty years later, many areas of the mountain are colonized with a large variety of plant and animal life. How does an area move from a sterile, barren wilderness to one full of life?

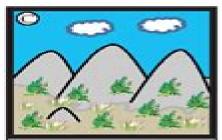
## Model 1 – Primary Succession



Barren rock from beneath a retreating glacier, or due to a volcanic eruption.



Low-growing plants such as mosses, ferrs, and lichens begin to colonize.



Fast-growing grasses, flowering plants, and small shrubs begin to take root. A thin layer of soil develops.



Fast-growing trees such as birch and mountain ash form a low forest and shade out lower plants.



100-200 years since colonization began, large, slow-growing trees, such as an oak, become established.

# **Succession Packet How Do Ecosystems Develop Over Time Answers**

**Michael DiSpezio** 

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Ecosystems Biology 2004 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Resources in Education Ecology Abstracts, 1989 Sierra Nevada Ecosystem Project Final Report to Congress Sierra Nevada ,1991-10 Ecosystem Project, 1996 The Software Encyclopedia ,1997 The American Biology Teacher ,1997 **Government Reports Announcements** insights Michael DiSpezio.1994 **Addison-Wesley Science Insights** ,1996 **The Northern Forest Forum** The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05 & Index ,1996 .1996 Beyond Borders, Linking Landscapes International Association of Landscape Ecology. United States Regional Association. Symposium, 2003 Bibliography of Agriculture ,1983 Bibliography of Agriculture with Subject Index .1982 Linking Restoration and Ecological Succession Lawrence R. Walker, Joe Walker, Richard J. Hobbs, 2007-10-16 While studies of restoration and ecological succession have been published independently there is much overlap between these approaches that has not been adequately explored Linking Restoration and Ecological Succession integrates practical information from restoration projects around the world with the latest developments in successional theory This innovative book recognizes the critical roles of disturbance ecology landscape ecology ecological assembly invasion biology ecosystem health and historical ecology in habitat restoration and argues that restoration within a successional context will best utilize the lessons from each of these disciplines To successfully restore an ecosystem that needs minimal care the temporal dynamics of successional processes must be considered By re examining restoration in the light of succession the authors hope to encourage the development of new approaches to the practice of restoration supported by solid ecological principles

<u>Plant Succession</u> D.C. Glenn-Lewin, R.K. Peet, T.T. Veblen, 1992-11-30 Succession is the term used to describe the phenomenon of changes in vegetational types in both time and space The subject of the colonization and exploitation of new areas by plants is a key one in ecology and this book summarizes the theoretical arguments currently raging about the topic

New Curriculum and Strategies for the Instruction of Ecological Succession Elizabeth Baker-Munro,1999 Directing Ecological Succession J.O. Luken,1990-09-30 Succession the tendency of plant communities to change through time presents a challenge to those who must satisfy goals established for the use and preservation of natural resources The practical application of what is known about successional changes has not advanced quickly subsequently plant community management is often carried out without recourse to the latest scientific data

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