

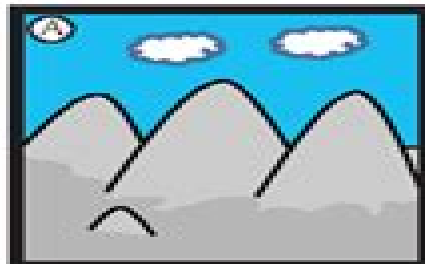
Succession

How do ecosystems develop over time?

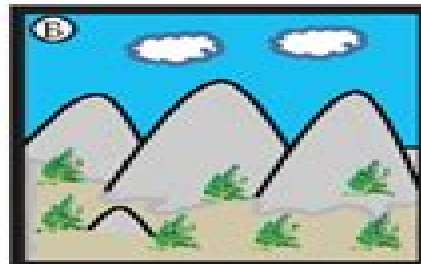
Why?

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?

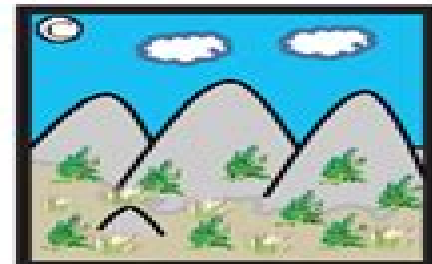
Model 1 – Primary Succession



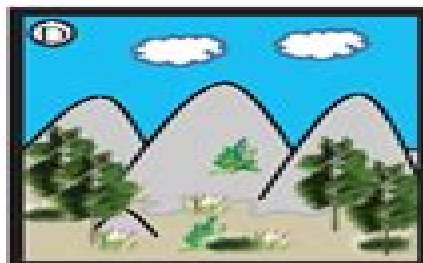
Barren rock from beneath a retreating glacier, or due to a volcanic eruption.



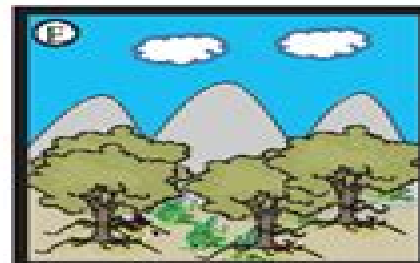
Low-growing plants such as mosses, ferns, and lichens begin to colonize.



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 How Do Ecosystems Develop Over Time

Answers

Martin Rowland



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Introduction to Environmental Health Mr. Rohit Manglik,2023-07-23 Core environmental health principles Includes pollution sanitation and health impacts preparing students for addressing environmental factors in public health *Science Interactions* Robert W. Avakian,1995-07-17 *Project Learning Tree* ,1994 Science Insights ,1999 *Addison-Wesley Science Insights* ,1996 Prentice Hall Science Explorer: Teacher's ed ,2005 **Project Learning Tree** ,2004

Harcourt Science: Life science, [grade] 4, units A and B, teacher's ed ,2000 **The Living Environment** Rick Hallman,2001 **Ecology: Teacher's ed** ,2005 *Beyond Naturalness* David N. Cole,Laurie Yung,2010-03-22 Beyond Naturalness brings together leading scientists and policymakers to explore the concept of naturalness its varied meanings and the extent to which it provides adequate guidance regarding where when and how managers should intervene in ecosystem processes to protect park and wilderness values The main conclusion is the idea that naturalness will continue to provide an important touchstone for protected area conservation but that more specific goals and objectives are needed to guide stewardship Bringing Back the Forests ,2003 *Biodiversity and Insect Pests* Geoff M. Gurr,Stephen D. Wratten,William E. Snyder,2012-05-29 Biodiversity offers great potential for managing insect pests It provides resistance genes and anti insect compounds a huge range of predatory and parasitic natural enemies of pests and community ecology level effects operating at the local and landscape scales to check pest build up This book brings together world leaders in theoretical methodological and applied aspects to provide a comprehensive treatment of this fast moving field Chapter authors from Europe Asia Africa Australasia and the Americas ensure a truly international scope Topics range from scientific principles innovative research methods ecological economics and effective communication to farmers as well as case studies of successful use of biodiversity based pest management some of which extend over millions of hectares or are enshrined as

government policy Written to be accessible to advanced undergraduates whilst also stimulating the seasoned researcher this work will help unlock the power of biodiversity to deliver sustainable insect pest management Visit www.wiley.com/go/gurr biodiversity to access the artwork from the book

Proceedings of the Chaparral Ecosystems Research Conference, May 16-17, 1985, Santa Barbara, California ,1986 **Proceedings of the Chaparral Ecosystems Research Conference, May 16-17, 1985, Santa Barbara, California** California Water Resources Center,1975 **Biology** Eric Strauss,Marylin Lisowski,2000 **Journal of the British Interplanetary Society** ,2001

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