

Evolution of soils as affected by the old field white pine--mixed hardwood succession in central New England

Harvard Forest - Models, mechanisms and pathways of succession



Description: -

- Hardwoods

White pine

Forests and forestry -- New England

Soils -- New England

Soils -- Analysis evolution of soils as affected by the old field white pine--mixed hardwood succession in central New England

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Conceptual ecological models for the Long Island pitch pine barrens: implications for managing rare plant communities

In: Utilization and Management of Alder.

The evolution of biogeochemistry: revisited

Effects of two types of nutrient environment on the structure and function of contrasting oldfield communities.

The evolution of biogeochemistry: revisited

Saguaro-nurse tree associations in the Sonoran Desert: Competitive effects of saguaros. White pine in the pre-European settlement forests of New England ranged from 0% to 22% of the total number of witness trees surveyed.

Forest development in North America following major disturbances

This location, coupled with its great size and highly valued wood, made white pine an easy target for early logging. Information on species' distribution in the original forest and contrasting successional roles in old-growth forests suggests that white pine defies easy classification or pigeonholing.

The evolution of biogeochemistry: revisited

A follow-on consequence of all these processes is a progressive change in the proportions of individuals of different species of the plant community due to variable capacities of the various species with different ecological strategies, phylogenies, successional stages ; , or life stages. There are opportunities to further study the feedback interactions between roots and soil organisms in grasslands. Another observed plant response to

enhanced uptake under deposition is the change of the mycorrhizal community from being specialists in uptake to being specialists in uptake , although some studies have not observed clear changes in plant mycorrhizal infections.

Eastern White Pine Versatility in the Presettlement Forest

The advent of long-term and large-scale experiments help to constrain the complexity of non-linearity and regional differences in fluxes and rates in biogeochemical work.

Variation in diazotrophic community structure in forest soils reflects land use history

Journal of Fish Biology 83: 207-213. In a recent review, reported that of 436 case studies on the effects of invasive plants on soil nutrient content, 192 found increases, 72 found decreases, and 158 found inconclusive changes. In fact, Gorham posits such studies were key in the establishment of the: 1 pathways and key linkages of inorganic and organic substance processing with the hydrologic cycle; 2 importance of carbonic acid, generated via metabolic pathways, in weathering; 3 foundations in plant nutrition; 4 importance of microbes in organic matter decay and elemental cycles; and 5 recognition of elemental cycles on a global basis.

Soil community changes during secondary succession to naturalized grasslands

White pine is known to be particularly sensitive to wind-throw because of its tall stature, often growing as an emergent in eastern forests, and its shallow rooting , , . The capacity of plants to increase their growth by a higher uptake or use efficiency of is very dependent on the chemical form of the source of. White pine is likely to find opportunities for gap capture and will persist as scattered individuals into the foreseeable future, but it is unlikely to become a dominant component on this talus slope forest.

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