

COMMUNITY PROPERTIES



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Prairie Restoration
Fermi National Accelerator Laboratory
West of Chicago, IL

Coral Reef Community

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Announcements and Assignments

- Next: **Factors Structuring Communities & Food webs**
- Then: **Community Dynamics**

Assignments

Read: Chapter 18, 19

Vocabulary

Community, association, biodiversity, species richness, relative abundance, rank-abundance, evenness, Simpson's index, Shannon index, dominants, keystone species, food chain, food web, links, {basal, intermediate, top} species, trophic level, trophic cascade, guild, functional type, zonation, F. Clements, H. Gleason

Today's Learning Objectives

At the end of today's meeting, you should be able to:

1. Define key **properties** of communities and interpret **rank-abundance plots**
2. Apply **diversity indices** to community data
3. Describe different **roles species** or groups of species can have in communities and provide a **biological example of each**
4. Describe types of **physical structures** in communities and explain their importance
5. Discuss the causes and consequences of **zonation**
6. Distinguish between the **alternative views of communities** typified by F. Clements and H.A. Gleason