Ecological Succession Anish Bhattacharya Assistant Professor Durgapur Government College Succession is an universal process of directional change in community composition,on an ecological time scale.

SERE OR SERAL COMMUNITY

Communities in Intermediate temporary stages towards Climax Community

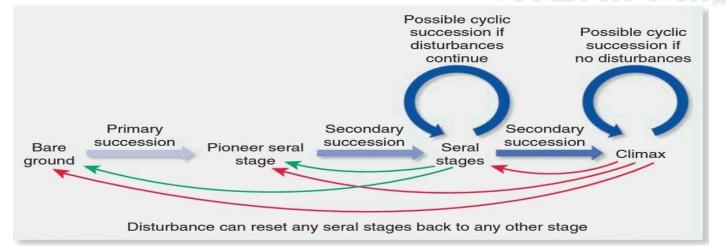
Intermediate temporary stages

SERAL STAGES

PIONEER COMMUNITY Primary or Earliest colonizers

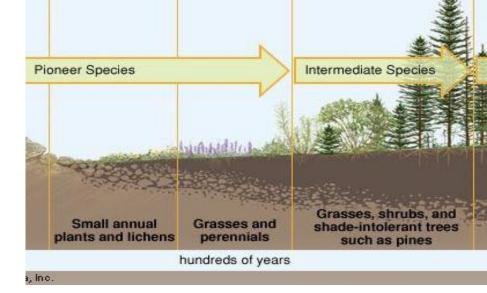


Cause of Succession INITIATING ECESIS OR CONTINUING STABILISING



Types of Succession
PRIMARYALLOGENICAUTOTROPHICHETEROTROPHIC

PRIMARY SUCCESION



SECONDARY SUCCESION

a, Inc.

ALREADY EXISTING COMMUNITY

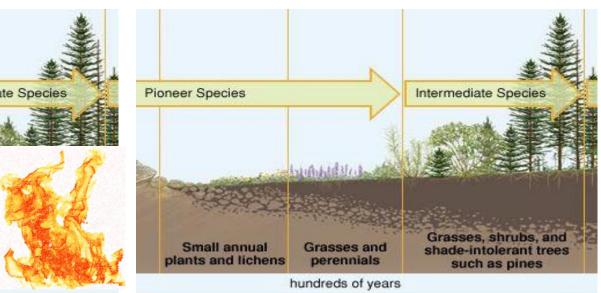
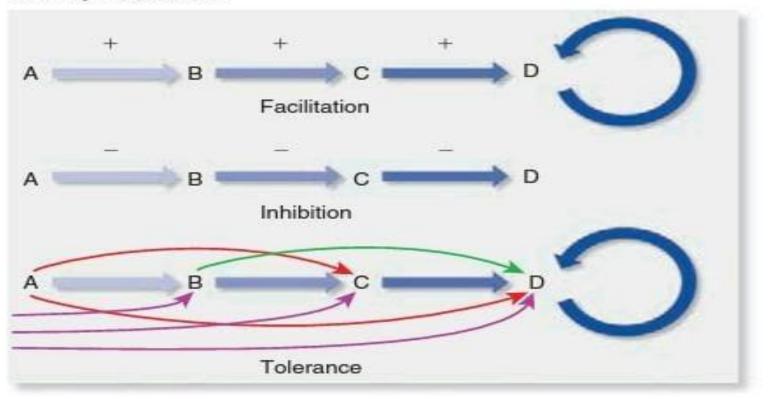




Figure 20.19 Restoration ecology at Bluewater Creek, northern New Mexico. Cows were removed from the area, nonnative plant species were removed and native tree species were planted. (a) A degraded (2008) and (b) a successfully restored (2009) community.

Primary succession



Secondary succession



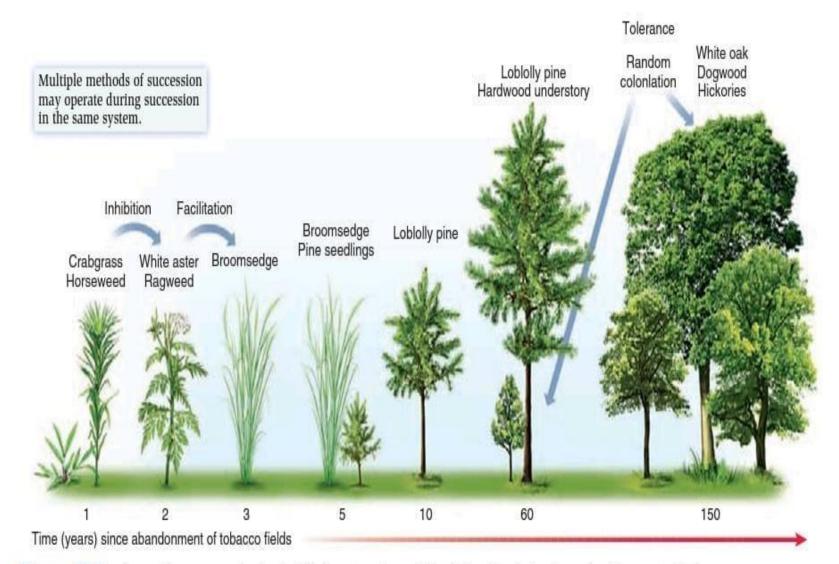
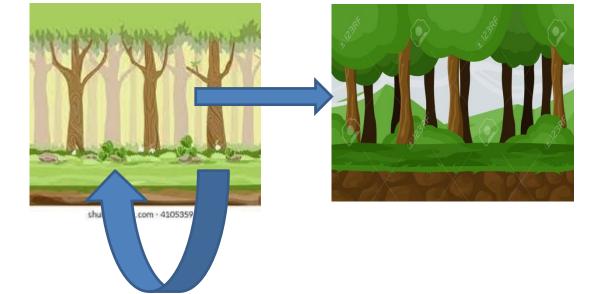


Figure 20.9 Secondary succession in the Piedmont region of North Carolina following abandonment of tobacco fields. Inhibition, facilitation, and tolerance are all important at various stages.

AUTOGENIC SUCCESION



ALLOGENIC SUCCESION

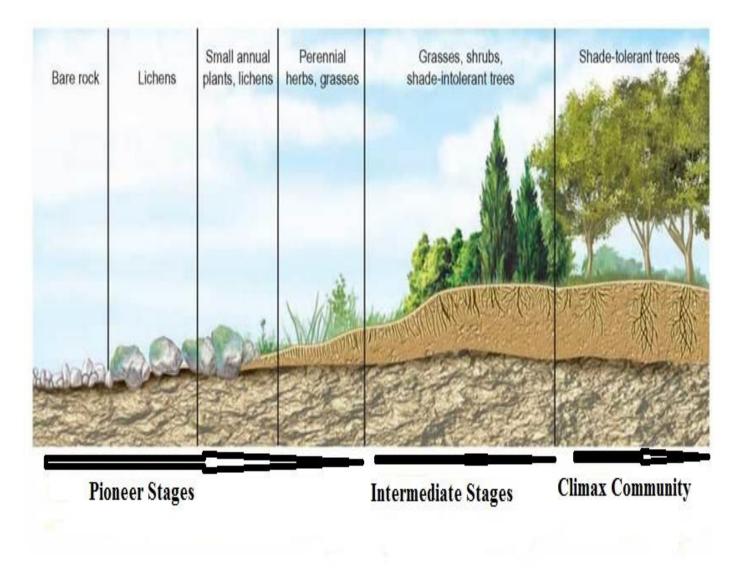
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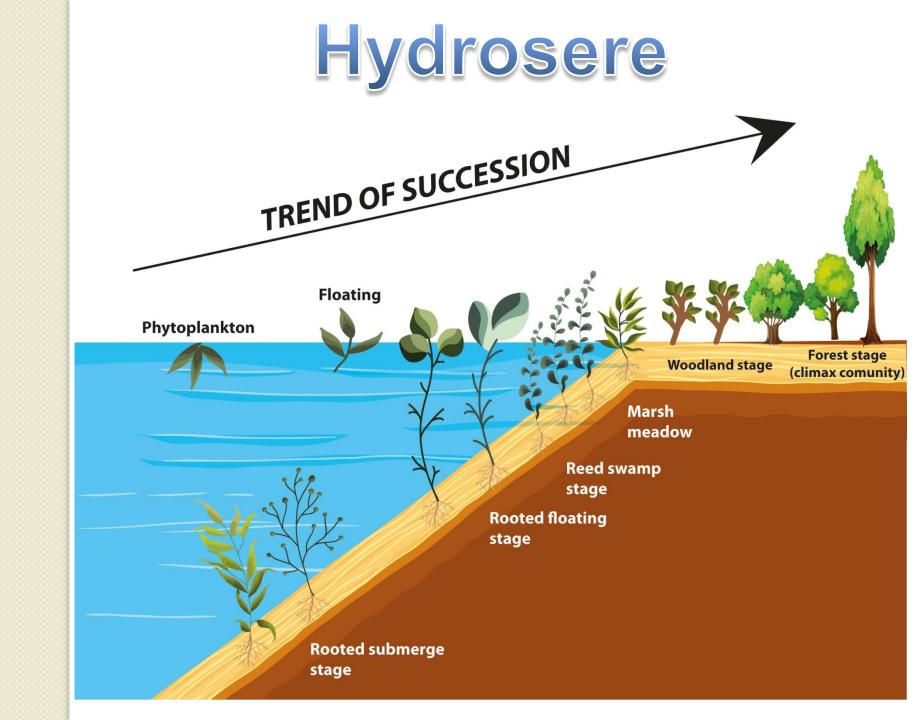
Process of Succession NURATION INVASION OR MIGRATION

ECESIS AGGREGATION

COMPETITION REACTION STABILISATION







Attribute	Early stages	Late stages
Seed dispersal	Good	Poor
Plant efficiency at low light	Low	High
Resource acquisition	Fast	Slow
Biomass	Small	Large
Species richness	Low	High
Species life-history	r	Κ
Seed dispersal vector	Wind	Animals
Seed longevity	Long	Short

Many more are there !!

Want to see it in real ??

Start with a Brick

Keep continuous Observation

Learn quickly !!

THANK YOU