habitat -address
Niche-occupation
No 2 species can ocaryy
the same Niche@ Same time - competition exclusion principle

$$
\begin{aligned}
& \left.D=\frac{N(N-1)}{\left(\sum n(n-1)\right.}\right) \\
& N=\text { total \# organism in ecosupt. } \\
& n=\# \text { indins of each specizs } \\
& N=200 \quad D=\frac{200(200-1)}{522} \\
& \sum n(n-1)=522 \quad D=76.2
\end{aligned}
$$



Biodiversity - negaturly affected by - pollution

- intro of exotic species
- deforestation
- development - habit loss/forgmentition

Community interactions

- predation
- symbiosis -
- nutelism - both benefit
- commensalism - 1 benefits other not helpel/not hormel
- parasitism - I benefits II hasuef


Demographic transition hypothis


- modernization brian death sate $\downarrow$, Then birth rate falls to meet death-trusition coophte

Eco. Succession
primasasy - on wesh exposed suffaces
secondrey - on soil

