SECTION 14.1

HABITAT AND NICHE

Power Notes

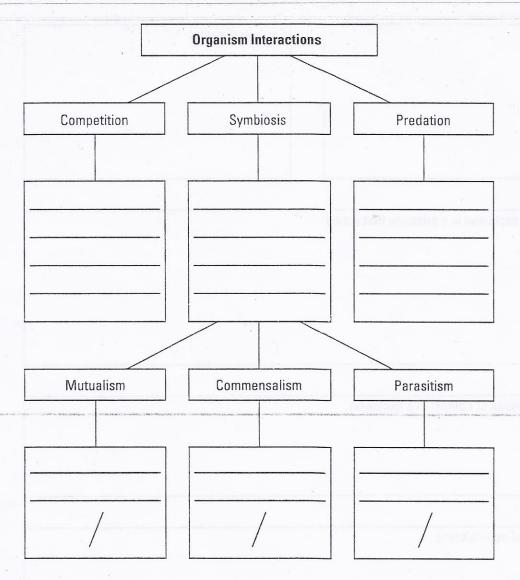
Habitat:	Ecological niche:
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	J. L.
Competitive exclusion is a principle that states	Σ. **
Two other results of competitive evaluation	Medical Interest
Two other results of competitive exclusion:	
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An ecological equivalent is:	
9	

CHAPTER 14 Interactions in Ecosystems SECTION

COMMUNITY INTERACTIONS

14.2

Power Notes



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CHAPTER 14 Interactions in Ecosystems SECTION 14.3

POPULATION DENSITY AND DISTRIBUTION

Power Notes

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Three disp	ersion types:	
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A survivors	hip curve is:	
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	centage	 	 	

Three Types of Survivorship Curves

Туре	Description
Type I	
Type II	
Type III	•

CHAPTER 14 Interactions in Ecosystems SECTION

POPULATION GROWTH PATTERNS

14.4 Power Notes

Exponential Growth

Time

Logistic Growth

Size

Time

Density-dependent limiting factors:

-

Density-independent limiting factors:

- ______
- ____

SECTION 14.5

ECOLOGICAL SUCCESSION
Power Notes

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BIOLOGY I SYMBIOSIS EXAMPLES: CHOOSE COMMENSALISM (C) MUTUALISM (M), OR PARASITISM (P) BESIDE THE ANIMALS INVOLVED BASED ON THE COMMENTS GIVEN.

ANIMALS

COMMENTS

Barnacle/Whale

Barnacles create home sites by attaching themselves to whales. This relationship neither harms nor benefits the whales.

Deer/Tick

Ticks feed on deer blood to the deer's detriment.

Ostrich/Gazelle

Ostriches and gazelles feed next to each other. They both watch for predators and alert each other to danger. Because the visual abilities of the two species are different, they each can identify threats that the other animal would not see as readily. Both species benefit.

Cowbird/Bison

As bison walk through grass, insects become active and are seen and eaten by cowbirds. This relationship neither harms nor benefits the bison.

Remora/Shark

Remoras attach themselves to a shark's body. They then travel with the shark and feed on the leftover food scraps from the shark's meals. This relationship neither harms nor benefits the shark.

Honey guide bird/Badger

Honey guide birds alert and direct badgers to bee hives. The badgers then expose the hives and feed on the honey first. Next the honey guide birds eat. Both species benefit.

Cuckoo/Warbler

A cuckoo may lay its eggs in a warbler's nest. The cuckoo's young will displace the warbler's young, and the warbler will raise the cuckoo's young.

Bee/Maribou stork

The stork uses its saw-like bill to cut up the dead animals it eats. As a result, the dead animal carcass is accessible to some bees for food and egg laying. This relationship neither harms nor benefits the stork.

Oxpecker/Rhinoceros

Oxpeckers feed on the ticks found on a rhinoceros. Both species benefit,

Silverfish/Army ants

Silverfish live and hunt with army ants, and share the prey. They neither help nor harm the ants.

Yucca plant/Yucca moth

Yucca flowers are pollinated by yucca moths. The moths lay their eggs in the flowers where the larvae hatch and eat some of the developing seeds. Both species benefit.

Mistletoe/Spruce tree

Mistletoe extracts water and nutrients from the spruce tree to the tree's detriment.

Mouse/Flea

A flea feeds on a mouse's blood to the mouse's detriment.

Wrasse fish/Black sea bass

Wrasse fish feed on the parasites found on the black sea bass's body. Both species benefit.