



Guppy Settings

Init-Guppy: The initial number of guppies in the ecosystem.

Freq-spots: Average number of tail-spots at the start (Multiply by 10).

Mutation: The probability that a guppy will have genetic mutation associated with the number of spots.

Fem_Pref: The likelihood that a female will reject a male with less than average spots.

Brood Size: The number of guppies born in a reproductive event (0-20).

Guppy K:The maximum number of guppies that can be sustained in the pond (0-500) **Mortality**: The probability that a guppy will

randomly die in 100 ticks (0-1.0)

Predators

Num_Pike: The number of pike cichlids in the ecosystem.

Num_Rivulus: The number of Rivulus in the ecosystem.

Simulation Instructions: BE SURE TO DO THE FOLLOWING AFTER EACH ROUND

 Make sure that all of the settings are reset <u>except</u> for the variable that you are

testing that round.

• Leave the following settings as they are: Init-Guppy, Mutation, Brood Size, Group K, Mortality.

