

Generation 0

Original Population

Event #1

Each *Paramecia* reproduces once.

(Generation 1)

Event #1

All yellow *Paramecia* are killed
because a chemical leached
into the pond water

Event #2

A deadly disease strikes
and kills
all the red *Paramecia*

Event #3

Each surviving *Paramecia* reproduces once
(Generation 2)

Event #4

A deadly predator strikes
and kills
all the blue *Paramecia*

Event #4

A deadly predator strikes
and kills

$\frac{1}{2}$ of the purple *Paramecia* population

Event #5

Each surviving *Paramecium* reproduces once.

(Generation 3)

Event #6

There is not enough food

so

$\frac{3}{4}$ of the remaining

Paramecia

die

Event #7

Each surviving *Paramecia* reproduces once.

(Generation 4)

Generation 5

Remaining Population