**Cheat Sheet for Herbicide Exposure Scenarios**

|  |  |
| --- | --- |
| **Suit** | **Identity of Frog** |
|  | Female No exposure to herbicide |
|  | FemaleExposed to herbicide |
|  | MaleNo exposure to herbicide |
|  | MaleExposed to herbicide |

|  |  |
| --- | --- |
| **Reproduction:** | Female is… |
|  |  |
| Male is… |  | **2**offspring | **1**offspring |
|  | **1**offspring | **0**offspring |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Generation 1****Population** | **Generation 2****Population** | **Generation 3****Population** | **Generation 4****Population** |
| **40% Female****No herbicide** | 10 |  |  |  |
| **90% Female****No herbicide** | 10 |  |  |  |
| **40% Female****Herbicide** | 10 |  |  |  |
| **90% Female****Herbicide** | 10 |  |  |  |



What population trends do you see? What differences do you see between scenarios?

Does herbicide appear to affect population dynamics before introduction of chytrid?

Do there seem to be differences between scenarios in the proportion of frogs reproducing? What consequences could this have?