|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Scenario | Milkweed | Nectar | Logging | Temperature Anomaly | Iteration | Growth Rate | Population Size (2036) |
| Do Nothing | 2 | 2 | 5 | 0 | 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| Doing nothing, how many times (out of 5) does the final population size go to 0? Go above 150? | | | | | | | |
| Manage! | 3 | 3 | 2 | 0 | 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| With management, how many times (out of 5) does the population go to 0? Go above 150? | | | | | | | |
| Climate | 2 | 2 | 5 | 2 | 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| Does climate change negatively or positively impact the monarch? (HINT: Compare population growth rates among scenarios – is it higher or lower than the ‘Do Nothing’ scenario?) | | | | | | | |
| Manage!  under  Climate  Change |  |  |  | 2 | 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| How would you adjust management under climate change? (HINT: Adjust slider bars...) | | | | | | | |

Girl’s Math & Science Day 2020

29 Feb 2020

‘Math & Monarchs’ Exercise