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|  | [[home](http://docs.google.com/index.htm)]  [[abstract](http://docs.google.com/abs.htm)]  [[introduction](http://docs.google.com/intro.htm)]  [[hypothesis](http://docs.google.com/hypo.htm)]  [[experiment](http://docs.google.com/exp.htm)]  [[data](http://docs.google.com/data.htm)]  [[conclusion](http://docs.google.com/conc.htm)]  [[we recommend](http://docs.google.com/rec.htm)]  [[daily log](http://docs.google.com/log.htm)]  [[other](http://docs.google.com/other.htm)]  [[bibliography](http://docs.google.com/bib.htm)] |  |  | **Analysis:** The graphs clearly show that the population dynamics act as expected.  Fluctuations in population sizes produce notable results in their predators and their prey's population.  However, they are nowhere near precise, as predicting the true population is not feasible.  One thing to note, however, is that the model is not perfect.  We do not think that the way the carnivores interacted with the herbivores is very accurate, as we failed to see the relationship seen in the herbivore:producer relationship mirrored in the carnivore:herbivore relationship.  In addition, another problem was our lack of a control group to compare our theoretical results with.  Though we searched on the internet, we could not find studies of a controlled ecosystem that contained only specific producer, herbivore, and carnivore populations.    **Conclusion:** Based on the graphs of the data, we can say that the population dynamics can be predicted, however not very precisely.  The computer program only created a reasonable approximation of the population sizes of the producers, the herbivores, and the carnivores.  Perhaps, armed with more accurate equations and constants, a more reasonable approximation could have been made.  An inclusion of the abiotic factors would also benefit the simulation and ameliorate some of the earlier problems with stagnation of populations (equilibrium) as it would add more factors that would either limit or encourage population growth.  We feel that the project showed that it is very possible to simulate populations of organisms, although that information is not very useful unless we could demonstrate that it could predict how a control group behaves.  [[Recommendations](http://docs.google.com/rec.htm)] |  |
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