

Will China have sufficient water resources to sustain population and agricultural growth?”

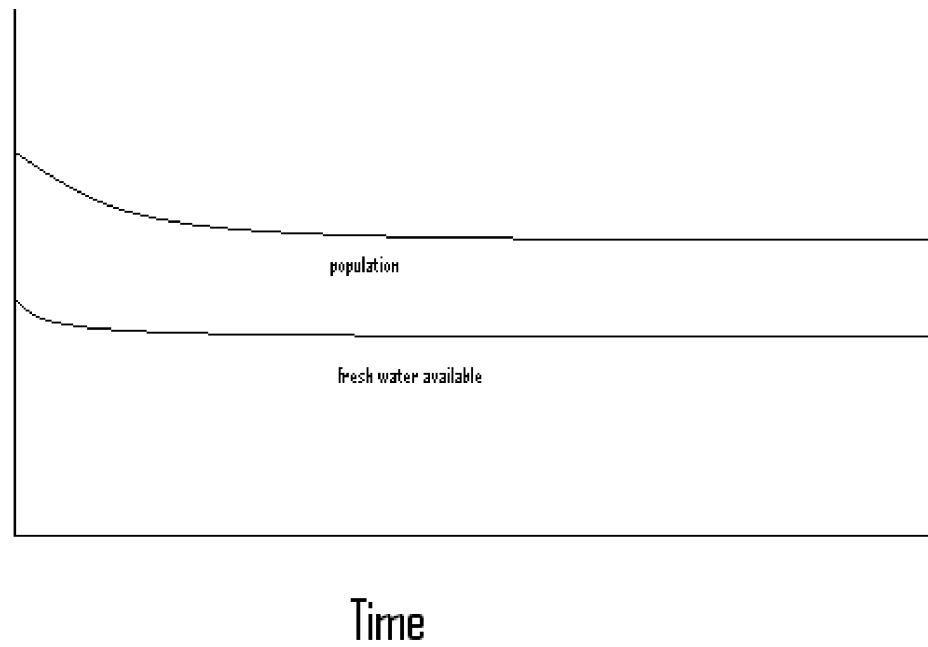
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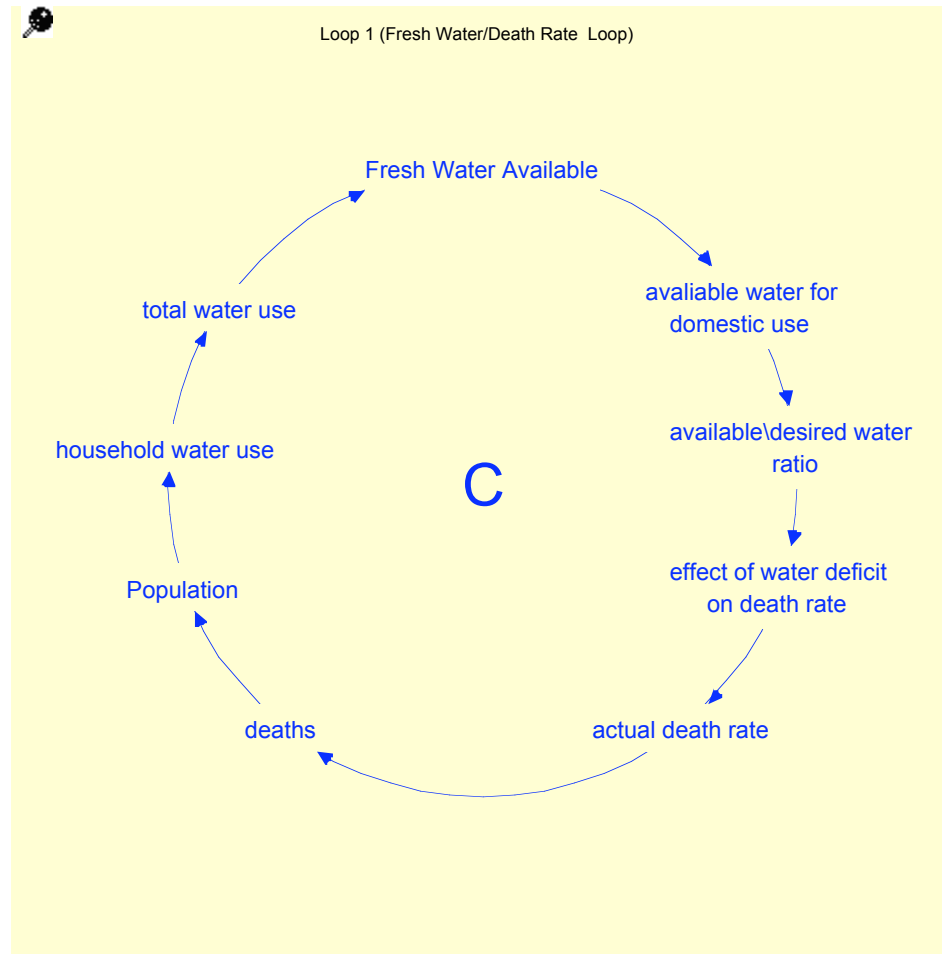
Introduction

- China is in the midst of a water crisis because of pollution and overuse.
- The crisis is predicted to grow more severe in the future.
- The water crisis would have devastating effects on population and food supply.

BOTG Prediction



Feedback Loop

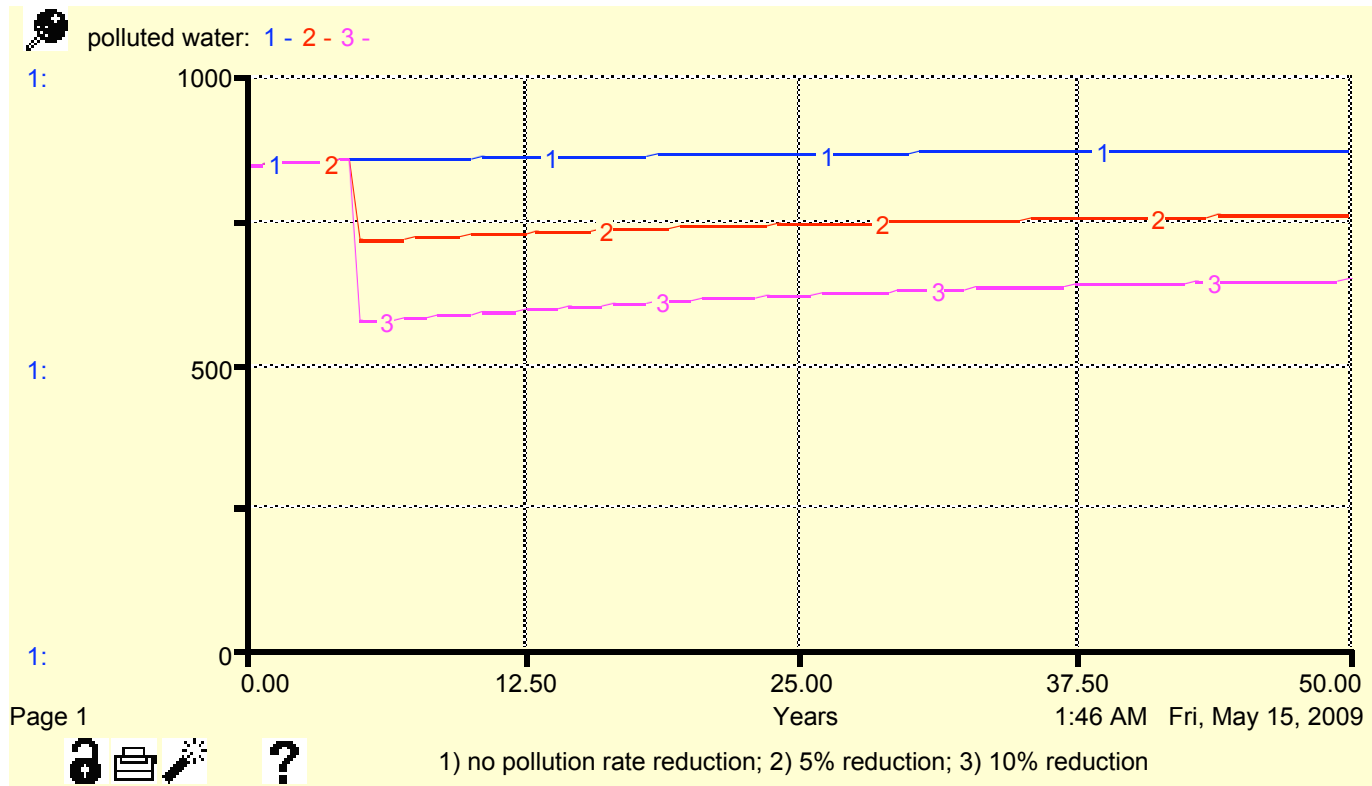


Fresh Water/Death Rate Feedback Loop

Possible Policy

One policy to help mitigate the problem is reducing the pollution level. The government of China could take steps to reduce pollution. This would increase the total clean water resources, and the amount of fresh water available. More water would be available for the public, and for agriculture. The death rate would decrease, and the population would grow.

Testing



What We Learned

- We learned in this process that modeling is a different and interesting way to look at a situation. This thought process can be used to solve any problem.
- It is very useful to be able to understand how the components of problem affect the outcome
- In conclusion, China will not have enough water to sustain its growing population and agriculture. It will need to take steps to solve the problem, or the population will begin to decrease, and farmland will begin to decay.