

# Laboratory: Human Population Growth

Mrs. Côté

Answer Key

Enviro. Science 120

## Pre Lab Work:

Before beginning this laboratory, answer the following questions on your own piece of paper in your notebook:

- Define the following terms:
  - growth rate – describes how fast a population is increasing or decreasing and is dependent upon the birth rate and death rate
  - birthrate – is the number of infants born in a given year/1000 people in the population
  - death rate – is the number of people who die in a given year/1000 individuals in the population
  - zero population growth – when the population is in equilibrium or the number of births and deaths are equal
  - developed country – countries that highly developed economy and advanced technology
  - developing country – countries that are considered to have low standard of living, and undeveloped industrially
  - demographic transition – refers to the transition from high birth and death rates to low birth and death rates
- What is a population explosion? How quickly is our population growing each year? What about each day?  
A population explosion is when a population lacks limited resources so is able to grow out of control. The human population is grows about 80 million a year and 219, 178 each day.
- How is the growth rate of the human population calculated?  
 $\text{Growth rate} = \text{birth rate} - \text{death rate}$
- What causes a negative population growth? What causes a positive population growth?  
Negative population growth occurs when the birth rate is less than the death rate  
Positive population growth occurs when the birth rate exceeds the death rate
- Why do the two graphs appear to have a different shape?  
The population growth rate was much slower in the earlier years. The J-curve shows exponential population growth and the graphs are not drawn to the same scale.
- Using a piece of paper, create the following charts:

Country	Birthrate (%)	Death rate (%)	Population Growth 2005	Population Growth 2050	Demographic Transition	Relative Place in Transition	Sketch graph showing Blue & Pink Line
USA	2.06	0.51	0.92	-0.06	1.55	5	

# Population Growth Lab Answers In Biology

**Zhe Xu**



## Population Growth Lab Answers In Biology:

**E-biology II (science and Technology)' 2003 Ed.** , *Biological Investigations Lab Manual* Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

**EPA Publications Bibliography** United States. Environmental Protection Agency, 1985

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**EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1994-10

Current Catalog National Library of Medicine (U.S.), 1970 Includes subject section name section and 1968 1970 technical reports

**Selected Water Resources Abstracts** , 1989-04

**Report summaries** United States. Environmental Protection Agency, 1983

*Research in Education* , 1968-07

*Resources in Education* , 1996

Biological Abstracts Jacob Richard Schramm, 1927

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Publications Bibliography ,1990      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1968      U.S. Government Research & Development Reports ,1970      **Energy Research Abstracts** ,1990      NOAA Technical Report NMFS ,1984      In Situ Evaluation of Biological Hazards of Environmental Pollutants Shabeg S. Sandhu,William R. Lower,Frederick J. de Serres,William A. Suk,Raymond R. Tice,2013-03-08 The study of the relationship between environmental pollution and human health is in its infancy The number of substances and mixtures that have been identified in uncontrolled hazardous waste sites or that have been in advertently released into the environment is large and data on how thes substances are modified as they interact with one another as they migrate through soil air and water are limited There are also limits on our un derstanding of how these substances may be ingested inhaled or absorbed by people The complexity of possible interactions between biological chemical and physical components in a given environment makes it virtually impossible to evaluate the potential for adverse biological effects ade quately in the laboratory Other more comprehensive methods which provide realistic and interpretable results must be used Many scientists believe that humans represent the ultimate sentinel species of a toxic exposure re sUlting from environmental pollution however such exposures may also se verely impact environmental health There exists a wide variety of organ isms in the natural environment that could be used to provide an early warning for potential human health effects as well as to indicate adverse ecological effects The issue of effective utilization of sentinel species for environment al monitoring is a rapidly developing area of research which has grown in importance during the last decade      **Holt Biology** Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008      **Report of the Bureau of Commercial Fisheries Biological Station, St. Petersburg Beach, Florida** United States. Bureau of Commercial Fisheries. Biological Station, St. Petersburg Beach, Fla,1966  
*Population Growth Rate* James Barber,R. M. Sibly,Rufus A. Johnstone,Jan M. Anderson,Jim Hone,Sasha R. X. Dall,T. H. Clutton-Brock,2002

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