

# Laboratory: Human Population Growth

Mrs. Côté

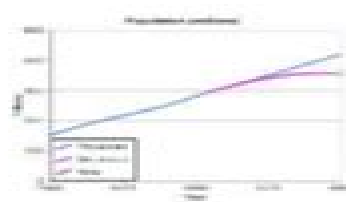
Answer Key

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?  
Growth rate = birth rate – 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 Density Lab Answer Key

**Wayne R. Ott**



## Population Density Lab Answer Key:

*EPA-600/9*, 1976-07     *HIT Lab Report* University of Michigan. Highway Safety Research Institute, 1974     *Proceedings of the Conference on Environmental Modeling and Simulation*, April 19-22, 1976, Cincinnati, Ohio Wayne R. Ott, 1976

**Proceedings**, 1976     **Environment and Ecology for Pennsylvania**, 2003     **Selected Water Resources Abstracts**, 1987     *Modelling and Control of Biotechnological Processes* A. Johnson, 2014-05-17 *Modelling and Control of Biotechnological Processes* contains the proceedings of the International Federation of Automatic Control's First Symposium on Modeling and Control of Biotechnological Processes held in Noordwijkerhout The Netherlands on December 11-13 1985 The papers explore modeling and control of biotechnological processes such as fermentation and biological wastewater treatment This book consists of 37 chapters divided into 11 sections and begins with a discussion on the control of fermentation processes modeling of biotechnical processes and application of measurement and estimation techniques to biotechnology The following sections focus on adaptive control theory applications of adaptive control and control and modeling of bioreactors The reader is also introduced to measurement techniques and sensors with emphasis on pyrolysis mass spectrometry rapid bioelectrochemical methods and a self tuning controller for multiloop controlled fed batch fermentation The remaining sections deal with parameter identification and estimation Kalman filtering techniques optimization of production processes modeling of microkinetics and optimization theory This monograph will be of interest to researchers and practitioners in the field of biotechnology     *Mortality and Population Density of Cottontail Rabbits at Ross Natural History Reservation, Lyon County, Kansas* Rhonda J. Baker, Robert J. Gress, Dwight L. Spencer, 1983     **Intelligence and Security Informatics: Biosurveillance** Daniel Zeng, Ivan Gotham, Ken Komatsu, Cecil Lynch, Mark Thurmond, David Madigan, Bill Lober, James Kvach, Hsinchun Chen, 2007-06-11 This book constitutes the refereed proceedings of the Second NSF Workshop on Biosurveillance Systems and Case Studies BioSurveillance 2007 held in New Brunswick NJ USA May 2007 It brings together infectious disease informatics IDI researchers and practitioners to discuss selected topics directly relevant to data sharing and analysis for real time animal and public health surveillance     **An Assessment of Potential Health Effects from Exposure to PAVE PAWS Low-Level Phased-Array Radiofrequency Energy** National Research Council, Division on Earth and Life Studies, Board on Radiation Effects Research, Committee to Assess Potential Health Effects from Exposures to PAVE PAWS Low-Level Phased-Array Radiofrequency Energy, 2005-07-09 PAVE PAWS is a phased array warning system designed to detect and track sea launched and intercontinental ballistic missiles operated on Cape Cod since 1979 by the U S Air Force Space Command In 1979 the National Research Council issued two reports to address concerns from Cape Cod residents about the safety and possible health effects of the radiofrequency energy from the radar Following up on the 1979 report the new report finds no evidence of adverse health effects to Cape Cod residents from long term exposure to the PAVE PAWS radar The report specifically investigated whether the PAVE PAWS radar might be responsible

in part for the reported higher rates of certain cancers in the area but concludes there is no increase in the total number of cancers or in specific cancers of the prostate breast lung or colon due to radiation exposure from PAVE PAWS The report did find in the scientific literature a few biological responses to radiofrequency exposures that were statistically significant Such responses do not necessarily result in adverse health effects but the report recommends additional studies to better discern the significance if any of those findings Hearings, Reports and Prints of the Senate Committee on Public Works United

States. Congress. Senate. Committee on Public Works,1975 **May 8 and 12, 1975** United States. Congress. Senate. Committee on Public Works,1975 *Directory of TVA Environmental Programs* Tennessee Valley Authority,1974

*Tennessee Valley Authority Oversight Hearings* United States. Congress. Senate. Committee on Public Works,1975

**Tennessee Valley Authority Oversight Hearings, Hearings Before ... 94-1** United States. Congress. Senate. Committee on Public Works,1975 Theoretical Ecology Ryan Chisholm,2025-09-09 An accessible and wide ranging introduction to the concepts and tools of theoretical ecology Theoretical ecology explores the mechanisms that structure ecological communities using a variety of mathematical and computational tools Theoretical Ecology shows you how to translate ecological problems into mechanistic models using both mathematics and the programming language R The book teaches key concepts and core quantitative skills while also devoting significant attention to the reasons for building mathematical ecological models Why do species populations fluctuate over time and space How do multiple species coexist What forces drive nutrient and carbon cycles Does higher species diversity lead to higher biomass Each chapter in this incisive and informative book is motivated by questions like these and every chapter includes boxes that delve into mathematical details and provide coding examples in R Focuses on mathematical and computational methods while also drawing on conceptual and graphical approaches and explores how the various approaches complement one another Teaches students the skills they need to implement and analyze ecological models in R Covers topics ranging from single species competition and predator prey models to community ecology island biogeography and nutrient flux models Provides exercises of graduated difficulty at the end of every chapter Ideal for advanced undergraduate and graduate classrooms and for independent study Includes a road map for class planning and self study **Instructor's Guide to Text and Media [for]** **Essential Biology** Edward J. Zalisko,2001 Nuclear Science Abstracts ,1973 **European Oversight Trip** United States. Congress. House. Committee on Science and Technology,1977 *Emerging Threats* United States. Congress. House. Committee on Government Reform. Subcommittee on National Security, *Emerging Threats, and International Relations*,2003

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