

Name: _____

Period: _____

Model Ecosystems Virtual Lab

http://www.mhhe.com/biosci/genbio/virtual_labs/BL_02/BL_02.html

1. Fill in the data on the number of organisms in each ecosystem below.

ECOSYSTEMS	Producers	First Order Heterotrophs	Second Order Heterotrophs	Third Order Heterotrophs
Deciduous Forest				
Hot Desert				
Grassland				
Antarctic Ocean Shore				
Freshwater Lake				

2. Fill in the data with the amount of energy at each level in the following ecosystems.

ECOSYSTEMS	Producers	First Order Heterotrophs	Second Order Heterotrophs	Third Order Heterotrophs
Deciduous Forest				
Hot Desert				
Grassland				
Antarctic Ocean Shore				
Freshwater Lake				

3. Suggest reasons why the information represented in the pyramid of numbers of animals of one of the ecosystems you studied may not truly represent that ecosystem.
4. According to your data, what is the ratio of third-order consumers to producers? Explain your answer.

Virtual Lab 10 Model Ecosystems

AW Chickering



Virtual Lab 10 Model Ecosystems:

Design and evaluation of a terrestrial model ecosystem for evaluation substitute pesticide chemicals Corvallis Environmental Research Laboratory, Robert Lee Metcalf, 1979 Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals Donald Mackay, Wan-Ying Shiu, Kuo-Ching Ma, Sum Chi Lee, 2006-03-14 CHOICE Award Winner

Transport and transformation processes are key for determining how humans and other organisms are exposed to chemicals. These processes are largely controlled by the chemicals physical chemical properties. This new edition of the *Handbook of Physical Chemical Properties and Environmental Fate for Organic Chemicals* is a comprehensive *The Multi Business Model Innovation Approach* Lindgren, Peter, 2018-09-13

It is argued in most academic literature that the Business Model BM is a general model for how any business runs or should run its business, a blueprint of the business. The book argues that no business has just one BM and just one model on which it runs its entire business or intends to run all its business. The research presented in the book points in contrast to other BM frameworks that businesses have more BMs and have both as is and to be BMs. Further, our research shows that the BM framework can and should be used for both as is and to be Models, which we call The Multi Business Model Approach. Theoretically, research indicated already by Markides and Charitou in 2004 and Casadesus Masanell and Ricart model in 2010 indicated that businesses have more BMs. Sadly, nobody followed up on this in the BM community, which could have made an earlier breakthrough in the understanding of BMs. BMI and strategic BMI. The book addresses further the concern that BM community and BMI practice mainly focus on the ideation and conceptualization of BMs. BM canvassing and just innovating BM building blocks can in many cases be classified as blind business model innovation. This is not sufficient to run and create a sustainable competitive business. Today, BM understanding and BMI must address all 7 levels of BMI and all BMs in the business. All BMs are and should be continuously objects to BMI in the aim of maximizing the performance and sustainability of the business. The core business with all its 7 BM levels, BM dimension components, BM dimensions, BM portfolio, Business and Business Model Ecosystem BMES and BMI Process should all be objects for BMI. The book addresses and documents this gap in BM research and proposes a new generic definition and language of a BM and a Business BMI layers. The book points to the huge unexplored possibilities that BMI offers today and can offer businesses in the future. When thoroughly understanding the 7 levels of BMI and businesses are able to communicate work and innovate with these together, then a next step in BM and BMI research and practice can hopefully be taken. The book proposed that any BMs are related to seven BM dimensions: value proposition, user and/or customer, value chain, functions, internal competence, network relations, and value formulae. Conceptually, any Business Model Cube can be formed on behalf of these seven generic BM dimensions, and these can be used both in a 2D and a 3D version. This is what the forthcoming part 2 of the book will elaborate on.

Environmental Health Perspectives, 1986 CRC Handbook of Laboratory Model Systems for Microbial Ecosystems Julian W.T. Wimpenny, 1988-10-31

These volumes present the main

classes of useful laboratory model systems used to study microbial ecosystems with emphasis on the practical details for the use of each model The most commonly used model the homogeneous fermenter is featured along with linked homogeneous culture systems film fermenters and percolating columns Additionally gel stabilized culture systems which incorporate molecular diffusion as their main solute transfer mechanism and the microbial colony are explained Chapters comparing model systems with microcosms are included along with discussions of the value of computer models in microbial ecosystem research Highlighted is a global discussion of the value of laboratory models in microbial ecology

Entomology Abstracts ,1998 Pesticides Abstracts ,1980 National Library of Medicine Current Catalog National Library of Medicine (U.S.),1989

Advances in Microbial Ecology K. Marshall,2013-11-11 Since the appearance of the first volume of *Advances in Microbial Ecology* in 1977 under the editorship of Martin Alexander the series has achieved wide recognition as a source of in depth critical and sometimes provocative reviews on the ecology of microorganisms in natural and man made ecosystems Most reviews published in *Advances* have been prepared by experts at the invitation of the Editorial Board The Board intends to continue its policy of soliciting reviews but individuals are encouraged to submit outlines of unsolicited contributions for consideration of their suitability for publication in *Advances* Volume 7 of *Advances in Microbial Ecology* covers a range of topics related to the ecology of microorganisms in natural and artificial habitats R M Atlas discusses the measurement and significance of diversity in microbial communities The nature of deserts and the activity of microorganisms in desert soils are considered by J Skujil s D B Nedwell examines both the input and the mineralization of organic carbon in anaerobic aquatic sediments The role of microcosms in the evaluation of interactions between pollutants and microorganisms is the basis of a major review by P H Pritchard and A W Bourquin

Freshwater Ecosystems A.H. Gnauck,M. Straškraba,2013-10-22 Ecosystem analysis and ecological modelling is a rapidly developing interdisciplinary branch of science used in theoretical developments in ecology and having practical applications in environmental protection In this book the authors introduce new holistic particularly cybernetic concepts into ecosystem theory and modelling and provide a concise treatment of mathematical modelling of freshwater ecosystems which covers methods subsystem models applications and theoretical developments Part I begins with a brief introduction to the principles of systems theory and their applications to ecosystems and provides a summary of various methods of systems analysis In Part II emphasis is laid on the pelagic processes in standing water characterised by relatively uninvolved structures from which models can be readily developed Part III describes applications of the technique of modelling to solutions of theoretical and practical problems with different modelling methods and objectives being used in the various chapters More recent developments in the methods and theory of ecosystem modelling are covered in Part IV which also includes a discussion of future trends The book is addressed to practising ecologists and engineers in the fields of ecology limnology environmental protection and water quality managements as well as to graduate post graduate university students in science and engineering Students and researchers

involved in environmental applications of mathematics and cybernetics will also find the book of interest *U.S. Geological Survey Circular*, 1984 **Water Resources Division in the 1980's**, 1984 Manmade Organic Compounds in the Surface Waters of the United States James Albert Smith, Patrick J. Witkowski, Thomas V. Fusillo, Geological Survey (U.S.), 1988 See journals under US Geological survey Circular 1007 Pesticides in Stream Sediment and Aquatic Biota Lisa H. Nowell, Paul D. Capel, Peter D. Dileanis, 2019-06-12 More than 20 years after the ban of DDT and other organochlorine pesticides pesticides continue to be detected in air rain soil surface water bed sediment and aquatic and terrestrial biota throughout the world Recent research suggests that low levels of some of these pesticides may have the potential to affect the development reproduction Eutrophication in Coastal Ecosystems Jesper H. Andersen, Daniel J. Conley, 2010-05-30 Coastal eutrophication has been and still remains an important issue for the scientific community Despite many efforts to mitigate coastal eutrophication the problems associated with eutrophication are still far from being solved This book focusses on the most recent scientific results in relation to specific eutrophication issues e g definition s and causes nutrient loads cycling and limitation reference conditions primary effects and secondary effects trend reversal oligotrophication as well as links to other pressures climate change and top down control It also focusses on monitoring and modelling of coastal eutrophication and adaptive and science based nutrient management strategies The book is based on selected papers from the Second International Symposium on Research and Management of Eutrophication in Coastal Ecosystems held 20-23 June 2006 in Nyborg Denmark Mechanisms of Toxicity and Metabolism N. T. Kärki, 2014-05-18 Mechanisms of Toxicity and Metabolism is the sixth volume of the proceedings of the Sixth International Congress of Pharmacology organized by the Finnish Pharmacological Society and held in Helsinki Finland on July 20-25 1975 Contributors focus on the findings concerning the mechanisms of toxicity and metabolism and the developments in pharmacology and related areas of research This volume has 24 chapters divided into four sections After discussing the developmental aspects of drug metabolism and enzyme inhibitors of microbial origin this book turns its attention to the interrelationships among various enzyme systems and physiological processes that are known to affect the distribution and metabolism of drugs This text also highlights the reaction mechanisms of cytochrome P 450 the link between microsomal drug oxidation and glucuronidation and the pharmacokinetics of the first pass effect The reader is then introduced to the toxicity of food additives and the toxicity and metabolism of plasticizers and plastics This volume concludes with a chapter that evaluates some of the biochemical and pharmacologic effects of di 2 ethylhexyl phthalate DEHP This book will appeal to scientists representing all the major areas of pharmacology including clinical pharmacology and toxicology as well as to internists psychiatrists neurologists and anesthesiologists **Organic Micropollutants in the Aquatic Environment** A. Bjørseth, G. Angeletti, 2012-12-06 The Fourth European Symposium on Organic Micropollutants in the Aquatic Environment was held in Vienna Austria from 22 to 24 October 1985 The Symposium was organized within the framework of the Concerted Action COST 641 which is included

in the Third R D Programme on the Environment of the Commission of the European Communities The aim of the Symposium was to review recent scientific and technical progress in the area of organic micropollutants in the aquatic environment and to present relevant research papers related to analytical methodologies transformation reactions and transport of organic micropollutants in water and water treatment processes A special session was devoted to theoretical aspects and future activities Furthermore special poster sessions were organized where original contributions were presented This book presents the Proceedings of the Symposium including all review papers presentations of research papers and extended versions of all posters We believe that these Proceedings provide a good overview of the activities in this field in Europe We are confident that it will constitute a valuable contribution to the understanding and solution of the problems posed by organic micropollutants in the aquatic environment The Commission of the European Communities wishes to express its gratitude to the co organizers of the Symposium Bundesministerium für Gesundheit und Umweltschutz Wien and Der Österreichische Wasserwirtschaftsverband Mechanisms of Toxicity and Metabolism Niilo Tapio Kärki, 1976 **EPA-560/1** ,1975-07

Carcinogenesis Abstracts ,1977

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