

Laboratory Exercises 9

ECOLOGY

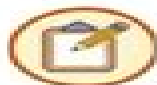
Introduction

The structure and dynamics of a community also depend on the feeding relationships between organisms—the *trophic structure* of the community. The transfer of food energy up the trophic levels from its source in plants and other autotrophic organisms (primary producers) through herbivores (primary consumers) to carnivores (secondary, tertiary, and quaternary consumers) and eventually to decomposers is referred to as a *food chain*. Food chains are relatively short and this is attributed either to the inefficiency of energy transfer along the chain (*energetic hypothesis*) or the instability of long food chains (*dynamic stability hypothesis*). Food chains are not isolated units but are linked together in *food webs*. Ecologists summarize the trophic relationships of a community by diagramming a food web with arrows linking species according to who eats whom.

Expected Learning Outcomes

After accomplishing the exercise, the student can:

1. explain how the energy flows and how matter is recycled in an ecosystem.



Activities

Examine a sample food chain, construct a food chain, food web and energy pyramid and explain energy transfer in trophic levels

- A. Using the following food chain (Fig 1), answer the questions below.
 1. What type of organism is the grass?
 2. Which animal is an herbivore or primary consumer?
 3. What would happen to the population of snakes if the population of hawks increased? Why?
- B. Construct a food chain for the following: *An owl eats a snake, the snake eats a frog, the frog eats a grasshopper, and the grasshopper eats the plant.* Label the producer, primary consumer, secondary consumer, tertiary consumer, and the highest consumer.
- C. Using the food chain from question no. 2, construct an energy pyramid.
 1. Which animal has the most amount of available energy?
 2. Which animal has the least amount of available energy?



Figure 1. Food chain

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Laboratory Exercises for Freshwater Ecology John E. Havel, 2016-03-17 Limnology stream ecology and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats Scientists working in these fields explore the roles of geographic position physical and chemical properties and the other biota on the different kinds of plants and animals living in freshwaters How do these creatures interact with each other and with their physical environment In what ways have humans impacted aquatic habitats By what methods do freshwater ecologists study these environments With this new laboratory manual Havel provides a variety of accessible hands on exercises to illuminate key concepts in freshwater ecology These exercises include a mixture of field trips indoor laboratory exercises and experiments with some portions involving qualitative observations and others more quantitative With the help of this manual students will develop an appreciation for careful techniques used in the laboratory and in the field as well as an understanding of how to collect accurate field notes keep a well organized lab notebook and write clear scientific reports

Laboratory Exercises for General Ecology and Evolution Carl Freeman, Kathleen Miglia, Hang Wang, 1999-08

Wildlife Ecology Susan Bratton, 2011-08-04

Ecology on Campus Robert W. Kingsolver, 2006 This flexible laboratory manual contains nearly 60 exercises involving small scale ecological systems that can be conducted within a weekly lab period right on campus regardless of the weather or resources available Each chapter describes an ecological concept and provides a choice of exercises involving outdoor observation and measurement hands on modeling small scale laboratory systems biological collections problem sets or computer based analyses In order to help build quantitative and critical thinking skills record sheets graphs and calculation pages are provided as needed for in class data analysis Question sets are provided in each chapter and computer step by step instructions walk through standard mathematical models and commonly used statistical methods Suggestions for further investigation present each topic as an open ended subject of inquiry Book cover

[Ecology-Lab.Activities Manual](#) Glencoe, 2004-08-01

Resources in Education, 1972

Field and Laboratory Exercises in Ecology Stephen D. Wratten, Gary L. A. Fry, 1980

Research in Education, 1972-05

[Laboratory Exercises in Physiological Ecology](#) John Mark Dean, 1975*

Biological Environmental Science William V Dashek, 2019-04-29 Biological Environmental Science is an introductory textbook for undergraduate students who desire a one semester course or alternatively a springboard course for advanced environmental offerings This book features timely issues such as global warming air ground and water pollutions population growth species extinction and environmental poli

Ecology Lab and Field Kausalya Shenoy, Philp Crowley, 2017-07-30 The exercises presented in this volume have evolved over the semesters with increasing emphasis on a deep understanding of the scientific method from developing hypotheses to designing experiments collecting data and analysing them appropriately and interpreting results

Catalogue of the Sheffield Scientific School of Yale University for the College Year ... Yale University. Sheffield Scientific School, 1914

Hands-On Chemical Ecology: Dietland

Müller-Schwarze,2009-08-15 Hands On Chemical Ecology Simple Field and Laboratory Exercises a premiere collection of practical exercises in chemical ecology offers tools and strategies for understanding this young science The exercises included use general principles and follow a simple structure Topics examined include birds fish insects mammals and plant chemistry among others Additionally exercises require accessible materials ensuring that each can be easily modified and completed anywhere in the world with locally existing instruments This text will be of value to undergraduate and graduates students and high school biology teachers University of Illinois Bulletin ,1910 *Cornell University Courses of Study* Cornell University,2005 *University Catalogue* Yale University,1912 **Catalogue of the Officers and Graduates of Yale University** Yale University,1916 **Catalogue of the Officers and Students in Yale College** Yale University,1912

Resources for Teaching Elementary School Science National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution,1996-03-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in **Resources for Teaching Elementary School Science** A completely revised edition of the best selling resource guide **Science for Children** **Resources for Teachers** this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education **Resources for Teaching Elementary School Science** also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on

science teaching and it will be of interest to parent teacher organizations and parents

The Kindest Garden Marian Boswall, 2025-04-08 Marian powerfully shares her passion and heart in a way that ensures you can breath life into your garden ecosystem with clear explanations and so many practical tools and takeaways Nicole Masters author of *For the Love of Soil* and director of Integrity Soils I found myself crying yes yes yes to every page of this beautiful inspiring visionary yet practical and compassionate book This is how we can garden to restore the planet how we can all do our bit and enrich our lives in the process Isabella Tree author of *Wilding* *The Kindest Garden* is a marvellous presentation of love and action for soil plants and nature Satish Kumar activist and speaker *Change the world from your back garden* Leading landscape designer Marian Boswall has worked on some of the UK s most ambitious and innovative regenerative landscape projects and now she shares her wisdom in this trail blazing guide A step up from sustainable gardening which focuses on minimising our impact on the earth regenerative gardening is about making an active contribution to the health of the planet improving and replenishing biodiversity through our gardens Whether you have a shady patio a large plot of land or a windowsill you can make an impact Drawing on lessons from forward thinking farmers foresters re wilders and nature itself *The Kindest Garden* shows you how to create a garden that is both a beautiful sanctuary for yourself and also a place where nature can thrive Come to understand the key elements of your garden soil water ecosystems materials energy and planting on a deeper level and discover how to harness each one for a garden that makes a positive impact Apply new found knowledge to practical projects and plan your planting to nourish the soil With beautifully written text clear explanations and practical takeaways as well as planting advice tools useful diagrams and informative charts *The Kindest Garden* is perfect for eco conscious gardeners who want to make a real difference

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