
ANSWER KEY

“The Wolf, the Moose, and the Fir Tree: A Case Study of Trophic Interactions”

by

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Part I – Introduction

Experimental manipulations can be quite difficult in systems containing large vertebrates. Consequently, long-term observations and correlational analysis are often used to assess interactions between different trophic levels. The limitations of this approach are well known; strong correlations may not be indicative of causation. The Isle Royale data constitute a widely recognized study of predator-prey interactions. The censusing of moose and wolf populations has been thoroughly documented, allowing the authors to infer causation based on the relative timing of events. The main goal of this study was to determine whether changes in primary productivity or herbivore-carnivore interactions are responsible for the suppression of plant growth in the Isle Royale National Park. Before reviewing any data, students should be able to predict the nature of any relationships between plants, herbivores, and predators.

Questions 1–3

The primary productivity hypothesis suggests that there should be positive correlations between each trophic level; inverse correlations would be predicted under the trophic cascade model. Furthermore, the direction of control is different under each hypothesis. Plant growth may be controlled from the top by herbivory or from the bottom by the availability of resources. Thus the removal of a top predator, such as the gray wolf, would lead to increased moose density and decreased plant growth under the trophic cascade model. If plant growth is limited by primary productivity, wolf removal will have no effect on the growth of the firs.

Question 4

If we use tree-ring analysis as an index of herbivore pressure, we are assuming that any reduction in ring width has been due to a loss of foliar biomass through predation. This will only be true if growth is not being limited by precipitation or climatic conditions.

Regarding the historical impact of moose on the fir, the balsam fir exhibited a strong decline following the colonization of Isle Royale by moose early in this century. However, this only supports the inference that moose herbivory is a significant pressure on firs if no other major changes occurred on the island in the last eighty years. Other factors, in addition to predation pressure, might have accounted for the demise of balsam fir. We must assume that there were no major fires or storms, no significant new diseases or pests were introduced, no new competitors arrived, etc. We need more information before

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The Wolf The Moose And The Fir Tree Answers

S Ashworth



The Wolf The Moose And The Fir Tree Answers:

The Wolves of Isle Royale Rolf Olin Peterson, 2007 A new edition of a classic the compelling firsthand account of an ancient predator prey relationship the Isle Royale wolf and moose dynamic

Arguing From Evidence in Middle School Science Jonathan Osborne, Brian M. Donovan, J. Bryan Henderson, Anna C. MacPherson, Andrew Wild, 2016-08-30 Teaching your students to think like scientists starts here If you've ever struggled to help students make scientific arguments from evidence this practical easy to use activity book is for you Give your students the critical scientific practice today's science standards require You'll discover strategies and activities to effectively engage students in arguments about competing data sets opposing scientific ideas applying evidence to support specific claims and more 24 ready to implement activities drawn from the physical sciences life sciences and earth and space sciences help teachers to Align lessons to the Next Generation Science Standards NGSS Engage students in the 8 NGSS science and engineering practices Establish rich productive classroom discourse Facilitate reading and writing strategies that align to the Common Core State Standards Extend and employ argumentation and modeling strategies Clarify the difference between argumentation and explanation Includes assessment guidance and extension activities Learn to teach the rational side of science the fun way with this simple and straightforward guide

Current Index to Journals in Education, 2001

Forest and Stream, 1897

Daily Learning Drills, Grade 6 Brighter Child, 2014-02-03 Daily Learning Drills provides complete daily practice for essential sixth grade skills Topics include verb tenses compound and complex sentences writing paragraphs decimals and percentages human anatomy the solar system and many more Daily Learning Drills provides complete daily practice for essential school skills Learning activities support the Common Core State Standards and cover English language arts and reading math science and social studies A review section reinforces skills for each subject area With Daily Learning Drills students will find the skills and practice they need for school success

Fur-fish-game, 1930

Rod and Gun in Canada, 1915

Fur News and Outdoor World, 1930

Forest Notes, 1998

The Independent Leonard Bacon, Joseph Parrish Thompson, Richard Salter Storrs, Joshua Leavitt, Henry Ward Beecher, Theodore Tilton, Henry Chandler Bowen, William Hayes Ward, Hamilton Holt, Fabian Franklin, Harold de Wolf Fuller, Christian Archibald Herter, 1913

Boys' Life, 1948

The Simon & Schuster Color Illustrated Book of Questions and Answers, 1986

Fur Trade Journal of Canada, 1946

Nature Canada, 1999

The Predator-prey Relationship of the Wolf and Moose of Isle Royale Ivan R. Tolley, Isle Royale Natural History Association, 1974

Wolf-moose Investigations on the Kenai National Moose Range Kenai National Moose Range, 1979-12

Wolf Pack Vs. Moose Nathan Sommer, 2020-08 Amazing photography accompanies engaging information about the fighting capabilities of wolf packs and moose The combination of high interest subject matter and light text is intended for students in grades 3 through 7

Enjoying the Tune of Appearance: An Psychological Symphony within **The Wolf The Moose And The Fir Tree Answers**

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