

Table of Contents

TEACHER'S GUIDE

ACKNOWLEDGMENTS	vii
INTRODUCTION	1
Environmental Inquiry	1
Meeting the Standards	1
Why Inquiry?	2
Audience	2
WHY ECOLOGY OF INVASIVE SPECIES?	5
Authentic Science	5
Relevance	5
Engaging Students	6
INQUIRY AND ECOLOGY	7
Levels of Inquiry	7
Cooperation and Peer Review in Science	8
Ecological Research	9
GUIDING STUDENT INQUIRY	11
About the Student Edition	11
<i>SECTION 1. UNDERSTANDING INVASION ECOLOGY</i>	13
Model Responses to Discussion Questions	13
Chapter 1. Introduction	13
Chapter 2. Population Ecology	14
Chapter 3. Community Ecology	15
Chapter 4. Ecosystem Ecology	16

SECTION 2. INVASION ECOLOGY PROTOCOLS—INTRODUCING RESEARCH	19
Overview: Protocols and Forms	19
Using the Protocols in Research	21
SECTION 3. BEYOND PROTOCOLS—CONDUCTING INTERACTIVE RESEARCH	25
Steps in Conducting Interactive Research	25
Example Interactive Research Projects	26
Ideas for Interactive Research Projects	27
Inquiry Teaching Tips	29
ASSESSMENT	37
Performance Assessment	37
Example Assessment Rubrics for EI Student Research	38
Assessment Criteria for Student Research	38
Assessment Rubrics for Poster Presentations	39
Assessment Rubrics for Written Reports	40
Sample Test Questions	42
REFERENCES	45

STUDENT EDITION