Contents EVALUATING YOUR ENVIRONMENTAL EDUCATION PROGRAMS

Acknowledgments
Introduction

- 1 The Benefits
- Steps in the Evaluation Process 2
- 4 How to Use This Workbook

Chapter 1: Focus Your Evaluation

- Overview of Program Evaluation
- Types of Program Evaluation
- Focusing Your Evaluation 14
- 20 Putting It Together

Chapter 2: Develop an Evaluation Plan

- 25 **Developing Evaluation Questions**
- **Identifying Indicators** 27
- 30 Identifying Sources of Information
- **Determining Data Collection Tools** 31
- Determining Design and Sampling 31
- Final Thoughts on Evaluation Plans 39

Chapter 3: Develop Data Collection Tools

- Interviews or Surveys? 45
- 46 Interviews
- 52 Surveys
- 62 Tests of Knowledge
- 67 Observations
- 72 Focus Groups
- Final Thoughts on Tool Development 75

Chapter 4: Collect Data

Making Your Data Collection Go Smoothly

- 83 Using Existing Data
- 85 Setting a Data Collection Schedule
- 86 Managing the Schedule
- 88 Maintaining Consistency
- 88 Ethics of Conducting an Evaluation
- 96 Data Storage
- 96 Final Thoughts on Data Collection

Chapter 5: Analyze Data and Interpret Results

- 99 **Developing Rubrics**
- 102 Summarizing Qualitative Data
- 104 Summarizing Quantitative Data
- 111 Final Thoughts on Data Analysis

T. KABAIN TONINA THAN Chapter 6: Communicate and Use Evaluation Results 57 394 9 8 co x 64

- Synthesizing Your Data 113
- 114 Organizing Your Data
- 120 Drawing Conclusions and Making Recommendations
- 123 Sharing Your Findings with Others
- 125 Writing a Formal Evaluation Report
- 129 Using Your Evaluation Results
- 129 **Final Thoughts**

APPENDIX A: 133 Answers to "Check for Understanding" Exercises

137 APPENDIX B: Lagoon Quest Program Evaluation: A Case Study

168 SUGGESTED RESOURCES

170 REFERENCES

FIGURE	c		
8	1.1	Types of Evaluation Linked with the Program Development Process	
36		Evaluation Designs	
38		Determining Sample Size for Surveys	
		Guide for Student Interviews	
48			
53		Lagoon Quest Chaperone Survey	
62 63		Sample Knowledge Question	
65		Sample Test of Knowledge	
70		Sample Matching Question	
76		Lagoon Quest Study Tour Observation Form	
87		Keying Out Evaluation Tools	
103		Sample Gantt Chart	
103		Coding Open-Ended Responses	
104	5.2	Sample Code	
TABLES			
18		Eco Education's City Connections Logic Model	
23		Evaluation Focus for City Connections	
28		City Connections Evaluation Plan	
32		Uses, Benefits, and Limitations of Data Collection Methods for Evaluation	
41		Evaluation Focus for the Prairie Science Class (PSC)	
42		Logic Model for the Prairie Science Class (PSC)	
42	2.5	Evaluation Plan for the Prairie Science Class (PSC)	
69	3.1	Form for Observing Staff	
69	3.2	Form for Observing Programs	
84	4.1	Using Existing Data	
86	4.2	EcoCit Data Collection Schedule	
101	5.1	Sample Rubric for Water Cycle Responses	
101	5.2	Rubric to Score an Exhibit	
101		Rubric to Assess an Exhibit	
108	5.4	Frequency of PLT Activity Use and Number of Years Teaching in Percentages	
110		Observed Frequencies	
111		Expected Frequencies	
115	6.1	Logic Model for Promoting Quality Environmental Education through the National Project for	
		Excellence in Environmental Education—Guidelines Training	
116	6.2	Excerpts from the National Project for Excellence in Environmental Education Guidelines	
		Training Evaluation Plan and Summary	
124	6.3	Communication Strategies for National Project for Excellence in Environmental Education	
		Guidelines Training Evaluation Results	
WORKS	WORKSHEETS		
21	1.1	Logic Model	
22	1.2	Focusing Your Evaluation	
40	2.1	Evaluation Plan	
77	3.1	Interview Guide Checklist	
78	3.2	Survey Checklist	
79	3.3	Test of Knowledge Checklist	
80	3.4	Observation Form Checklist	
81	3.5	Focus Group Guide Checklist	
96	4.1	Charting Your Existing Data	
97	4.2	Data Collection Schedule	

iv

130

131

6.1 Evaluation Summary

6.2 Communication Strategies