

# Contents

Preface vii  
Introduction xi

## Part I The Organism

1. Now and Then: The Species, Including Fossils 2
2. Form, Weight, and Special Adaptations 11
3. Diving and Thermoregulation: From Land Mammal to Semiaquatic  
Design and Function 19
4. Energy Budget 24

## Part II Behavior

5. Families as Social Units 30
6. Communication by Scent and Sound 39
7. Infrastructure: Dams, Lodges, Trails, and Canals 55
8. Beaver Time 64
9. Food Selection 68

## Part III Populations

10. Reproduction, Development, and Life Expectancy 88
11. Population Densities and Dynamics 97
12. Finding a Home: Dispersal 110

## Part IV Ecology

13. Where They Live and Why: Habitat Requirements 116
14. Mortality and Predators 123
15. Parasites and Diseases 129
16. Maker of Landscapes: Creating Habitat for Plants, Animals,  
and People 135

**Part V Beaver and People: Conservation, Use, and Management**

- 17. “Here before Christ”: Fur Trade, the “Beaver Republic” (Hudson’s Bay Company), and Fur Trapping Today 150
  - 18. Reintroductions and Other Transplants 169
  - 19. “Nuisance Beavers” Claim Their Land 178
  - 20. Needed: An Ecosystems Engineer for Habitat Restoration and Other Services 184
  - 21. Living with Beavers: Conservation and Proactive Management 191
- Index 205