Natural Resource Year in Review

1 9 9 6

A report of the National Park Service, summarizing and analyzing the year in natural resource stewardship in the national park system

© Bill Hansen

Water rights preserved at Zion. *See page 7.*

© Bill Jackson

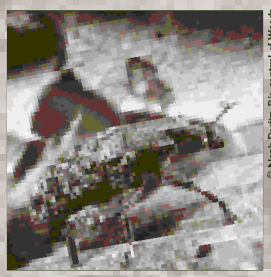
Flood experiment builds beaches at Grand Canyon. *See page 34.*

Kerry Moss

President Clinton shields Yellowstone from mining. *See page 39.*

Mojave National Preserve

Mojave National Preserve takes on threats. *See page 41.*



© Noah Poritz, Bio-control of Weeds

Insects control thistles at Wind Cave. *See page 51.*

© Earl Nottingham, Texas Parks and Wildlife

Kemp's Ridley sea turtles return to Padre Island. *See page 55.*

United States Department of the Interior • National Park Service

In memory of John Christiano, whose contributions to the Air Resources Division over the past 17 years helped lead the way to increased protection and preservation of air quality and visibility within the national park system.

Natural Resource Year in Review | 1996

Published by
National Park Service
U.S. Department of the Interior
Natural Resource Program Center
Natural Resource Information Division
Lakewood, Colorado

Editor
Jeff Selleck

National Park Service
Acting Director Denis P. Galvin

Natural Resource Stewardship and Science
Associate Director Michael A. Soukup (mike_soukup@nps.gov)
Deputy Associate Director Abigail B. Miller (abby_miller@nps.gov)
Visiting Chief Social Scientist Gary Machlis (gary_machlis@nps.gov)
Program Coordinator Deborah Peck (debby_peck@nps.gov)
Natural Systems Management Office Staff

Natural Resource Program Center
Acting Chief, Air Resources Division Miguel Flores (miguel_flores@nps.gov)
Chief, Environmental Quality Division Jacob Hoogland (jacob_hoogland@nps.gov)
Chief, Geologic Resources Division David Shaver (dave_shaver@nps.gov)
Chief, Natural Resource Information Division Richard Gregory (rich_gregory@nps.gov)
Chief, Water Resources Division Dan Kimball (dan_kimball@nps.gov)

For copies of this publication contact the editor by e-mail (jeff_selleck@nps.gov) or write:
National Park Service
Natural Resource Information Division
Suite 350
1201 Oak Ridge Drive
Fort Collins, Colorado 80525

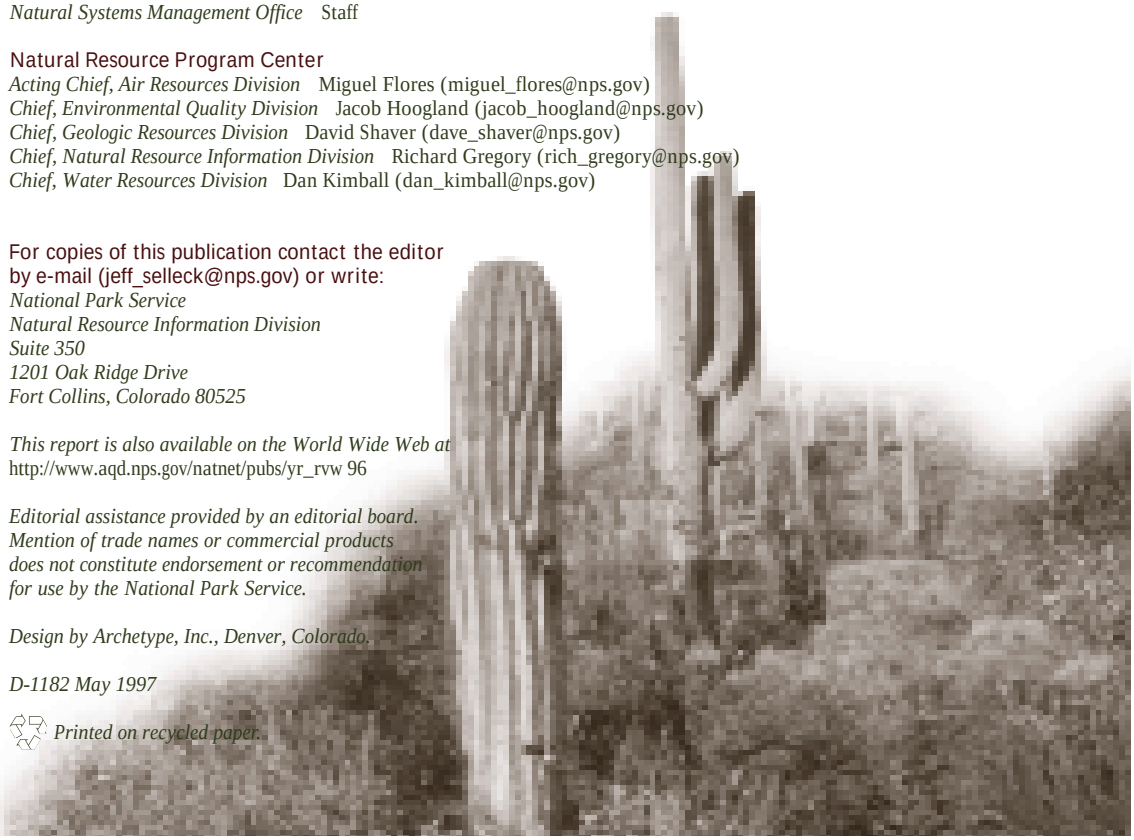
This report is also available on the World Wide Web at
http://www.aqd.nps.gov/natnet/pubs/yr_rvw 96

Editorial assistance provided by an editorial board. Mention of trade names or commercial products does not constitute endorsement or recommendation for use by the National Park Service.

Design by Archetype, Inc., Denver, Colorado.

D-1182 May 1997

Printed on recycled paper.



Saguaro National Park, Arizona *(right).*

(Cover) Grand Teton National Park, Wyoming.

C O N T E N T S

Foreword iii

Threats 1

Meeting Demands 9

Resource Knowledge 17

Working Together 23

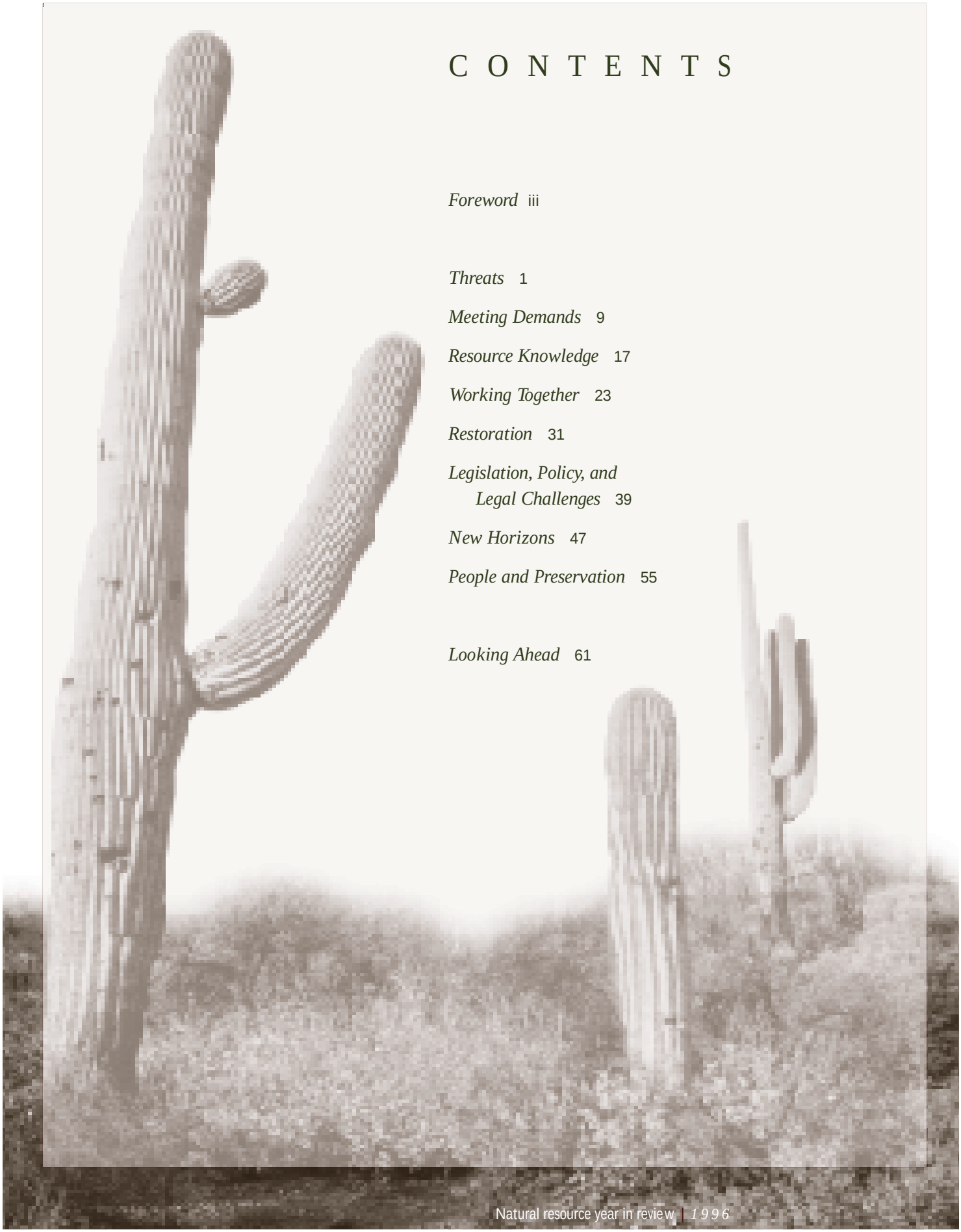
Restoration 31

Legislation, Policy, and Legal Challenges 39

New Horizons 47

People and Preservation 55

Looking Ahead 61



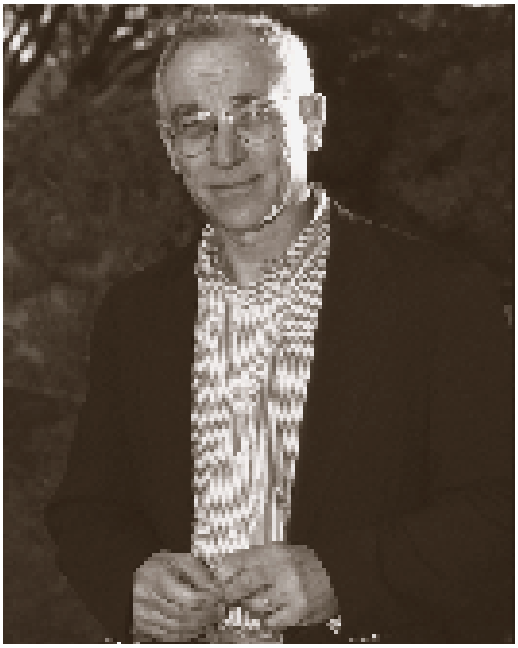
FOREWORD

As the 21st century approaches, the natural resources of our national parks face increasing uncertainties. As our nation's population and economy grow, national parks are subject to greater internal and external pressures—and potential impacts. As the American public grows more engaged in national parks, natural resource management must keep pace with our success in accommodating visitors.

To understand and counter the effects of an increasingly human-dominated landscape and high levels of visitor use, we must provide national parks with a science effort consonant with long-term preservation. Bringing adequate science to bear on the complicated task of resource preservation must be a top priority for the National Park Service. Our science effort (both the procurement of new information and its application) must be of sufficient sophistication, professionalism, and magnitude to match our task—preserving 83 million acres of America's richest natural systems. To reach this goal will require a thorough reassessment of the scope of our task and the current level of effort.

Are time and opportunity slipping away from us? Perhaps we can best answer this by keeping better logs of where we have been. This report is our first attempt to take stock of the natural resource events in national parks in the preceding calendar year. Herein you will find annual achievements, science highlights, and perhaps ample testimony to the complexity of managing national parks in modern landscapes.

We hope this annual log will be enjoyable and informative to those concerned with the state of the natural resources in our national parks, and our ability to achieve the task of preserving our national parks for the enjoyment of future generations.



Natural Resource Information Division

Michael A. Soukup
Associate Director, Natural Resource Stewardship and Science

mike_soukup@nps.gov
Associate Director, Natural Resource Stewardship and Science;
Washington, D.C.

ppalachian National Scenic Trail, *Maine.*