

**People, Human Behavior and
Animals in Parks and Preserves:
A Working Bibliography**

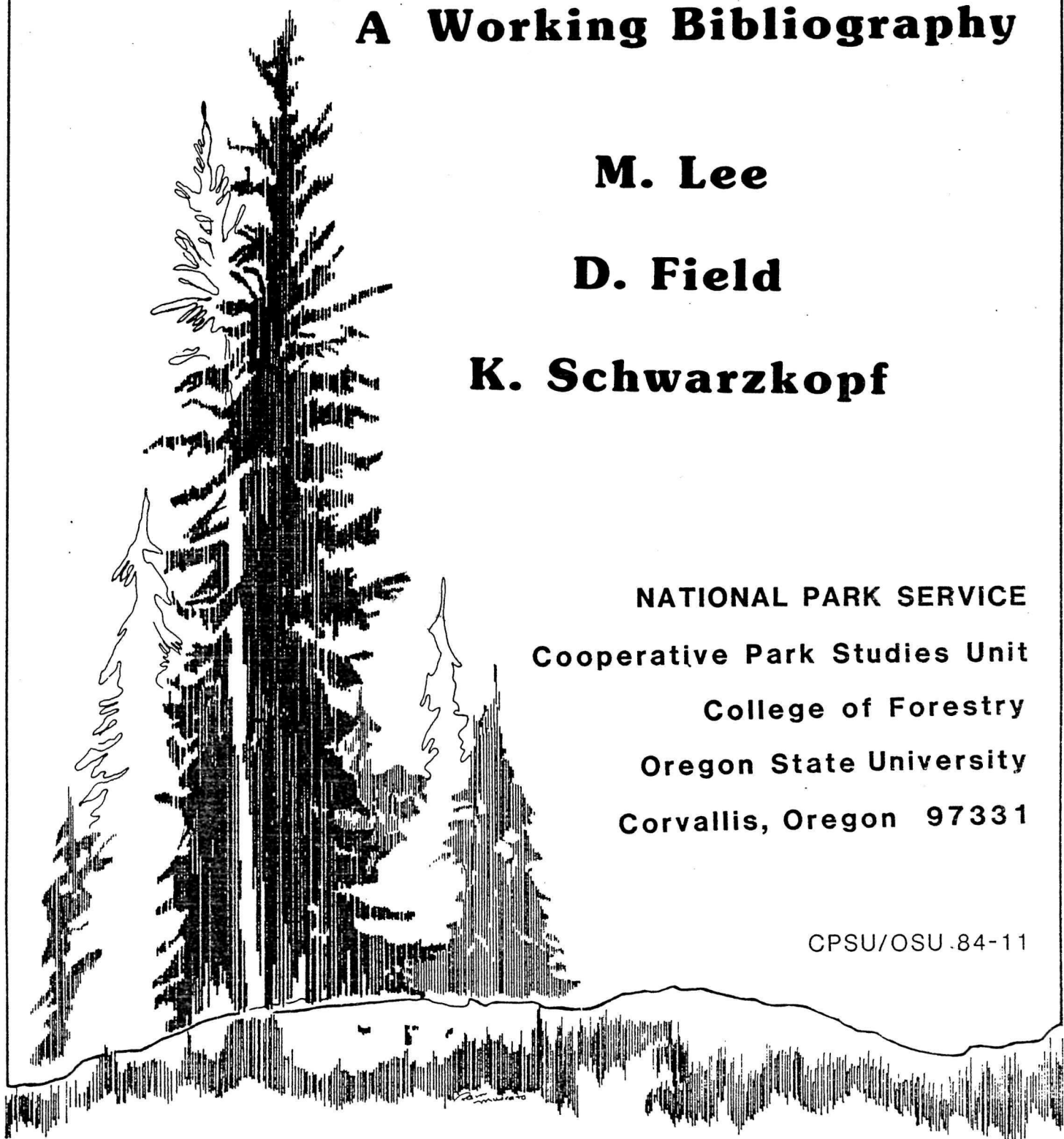
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IN PARKS AND PRESERVES:
A Working Bibliography

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INTRODUCTION

Through institutional structure and culture, human societies define the way people interact with their environment.

Similarly, institutional structure and culture together define the natural and cultural resources to be preserved, conserved, or exploited. Resources, in other words, are not simply products of the earth, they also have imputed value to people. However, what may be a resource to one social group may not be to another. As Burch noted, "It is thus the interplay between the culture of a particular human group and its habitat that determines a resource" (Burch and Deluca 1984). Animals are one such resource, and it is therefore through culture that the values, beliefs and behavior of people toward animals are formed.

Animals reflect many different values of a society: They can serve as religious symbols, forms of dietary, objects of sorcery, mascots for team sports. Animals are a source of food and a source of energy, used to pull wagons, irrigate lands, and grind grains. Some animals provoke adoration and a desire to exhibit them; others are bred and raced for competition. People bring animals into their homes, build shelters for them, and fence lands to keep some animals in and others out. Animals are objects of scientific study and display, as in zoos and aquariums. Professions such as veterinary medicine have developed to provide animal care, and animal rights groups have

been formed to protect animals from exploitation and experimentation.

The relationship between humankind and animals assumes many forms, reflecting a complex set of behavior patterns linked to cultural values. The relationship of people to wild animals and their habitats represents yet another set of human values. Professions such as wildlife management have emerged to study these animals. Under the guidance of knowledgeable professionalism, human society has defined some animals as endangered and others as exotic. In fact, the same species, depending upon its geographical location and habitat, might be defined as either exotic or natural. Preserves have been set aside for the protection and reproduction of specific animal species, and as migration routes for others. How people relate to wild animal populations, only now beginning to generate serious study by social and biological scientists, is constantly changing as society embraces broader value orientations toward them.

From the beginning of early American history until the early 1900s, wildlife, serving as a major source of food and clothing, seemed in endless supply. Beginning in the early part of this century, as the population of the country increased, the exploitation and overutilization of wildlife resulted in drastic reductions of their populations. Legislation protecting wildlife was developed, and the science of wildlife management began to emerge. At the same time, sport hunting became a more important and dominant use of wildlife, a trend that continued until recently.

However, as the numbers of people and their impact on the environment have increased and wildlife numbers and habitats have decreased, there has grown an increased value orientation toward the aesthetic and inherent value of wildlife (Shaw 1974). Non-consumptive recreation activities such as photographing, viewing, or feeding wildlife have become a major value. In the United States in 1980, 83.2 million persons 16 years old and older participated in some type of nonconsumptive recreation activity, compared with 42.1 million who fished and 17.4 million who hunted (USDI Fish and Wildlife Service and USDC Bureau of Census 1982).

As society's values and attitudes toward animals have evolved, so have the wildlife management policies of agencies like the National Park Service. Early park administrators stressed the preservation of "good" animals, majestic species such as elk, bison, and deer and the elimination of "bad" animals, predators such as coyotes and cougars--a policy resulting in both unnaturally high and low wildlife populations. As the movement to preserve the nation's wildlife progressed, so did National Park Service policy. By the 1930s, wildlife managers had begun managing ecosystems and natural systems rather than managing the parks for individual animals or species. No longer were animals seen as either "good" or "bad," but as pieces of an "ecological puzzle" (Supernaugh 1983, Wauer and Supernaugh 1983). This systems approach to park management continues today, allowing wildlife species to exist in natural settings.

Purpose of the Bibliography

The focus of this bibliography is on the nonconsumptive relationships between people and animals, concentrating on interactions occurring in parks and preserves between wildlife and recreationists. Papers, some of which could have been included in more than one category, were put into the category that best described its major emphasis. Topic areas include:

National Park Service policy on wildlife management.

Papers included discuss National Park Service policy primarily from an historical perspective.

The value and benefits of wildlife. Works on nonconsumptive wildlife values in particular are included, along with several papers discussing economic methods of valuation.

Human attitudes toward, and perceptions of, wildlife and other animals. Extensive work done by Kellert and Witter on human attitudes toward animals is included, along with papers discussing the perceptions and attitudes of outdoor recreationists toward wildlife, hikers' perceptions of bears, for example.

Interactions between recreationists and wildlife. This section primarily includes papers describing backcountry encounters, and particularly work done on bear-human interactions, an ongoing problem in some national park areas.

Nonconsumptive use of wildlife. Papers listed here include several bibliographies (i.e., Lime 1974; More 1979; Potter, et al. 1973) and discussions of other works on this wildlife value, which is becoming increasingly more important.

Impacts of recreationists on wildlife. Papers included in this section focus primarily on impacts occurring within national parks and parklike settings. A more inclusive bibliography of recreation impacts on wildlife was compiled by C. H. Ream (1980).

Education--a means of increasing knowledge and reducing human impacts on wildlife. Papers are included that suggest education as a means of reducing problems and misunderstanding of wildlife.

There are clearly other topics related to the issue of humans and animals that are not included in this bibliography. Several worth mentioning, along with several suggested references, include:

(1) the moral aspect of human-nonhuman relations, including the issue of animal rights (see Clark 1977; Morris and Fox 1978; and Rollin 1981).

(2) the consumptive uses of wildlife, specifically hunting and fishing. Much work has been done to describe hunters and anglers; for example, Bevins et al. (1968) described hunters from several states; Schole (1973) prepared a literature review on hunter characteristics; and Manfredo and Anderson (1982) described Oregon trout anglers. Research done on sportsmen's motives include Knopf et al.'s (1973) discussion of motives for fishing and Potter et al.'s (1973) description of hunter satisfaction.

(3) bonds between humans and companion animals. This is a topic of growing interest, particularly in the field of veterinary medicine (see Anderson et al. 1984).

The intent of this bibliography is to assist resource managers by cataloging the knowledge base of the relationships between humans and animals, wildlife in particular. The animal-people emphasis in research is an ongoing, long-term commitment of the National Park Service Cooperative Park Studies Unit at Oregon State University. This working bibliography will be expanded and updated on a regular basis. We solicit contributions, citations, and suggestions. Please address them to:

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PEOPLE, HUMAN BEHAVIOR AND ANIMALS IN PARKS AND PRESERVES:

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