Natural Resource Inventory and Monitoring Bibliography

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Technical Report NPS/WRUC/NRTR-93/04

United States Department of the Interior
National Park Service * Western Region
Cooperative National Park Studies Unit
The University of California * Davis, California
Cooperative National Park Resource Studies Unit
The University of California, Davis

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Unit personnel conduct research relevant to resource management in park areas. They provide direct support to NPS resource managers in planning, conducting, and monitoring resource management activities. They also support the broader goals of education and increasing the public awareness of the role of National Parks and similar natural area preserves as part of our national natural heritage.

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NATURAL RESOURCE INVENTORY AND MONITORING

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June 1993
Introduction

The purpose of this Natural Resource Inventory and Monitoring Bibliography is to provide managers and scientists with one more tool to aid in planning inventory and monitoring (I&M) projects. We hope to avoid recreating the wheel and to learn from the successes and failures of others in the design phase of I&M projects. And, given the experimental nature of most I&M activities, it is important to evaluate carefully the sampling design and methods of past and on-going studies.

No bibliography is complete. There are subjective decisions made on which reference materials to include or exclude. Depending on keyword selection, many reference materials may go undetected in computerized searches. In general, we retained a broad range of titles pertaining to various aspects of inventory and monitoring, however we did not make a specific effort to search for studies of only local interest, reports in obscure journals, and unpublished reports. The database includes 1993 records; 1033 of these have been assigned keywords, and 285 have short annotations describing the article. We provide a starting point: additional records are added easily by anyone with a basic knowledge of dBASE-format databases.

The references are numbered and listed in alphabetical order. A keyword index is provided immediately preceding the references. A copy of the database file (if not included), can be obtained by writing:

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Preparation of the Bibliography

References were compiled primarily from computerized bibliographic indexing and abstracting sources. For peer-reviewed scientific journals and books, these included BIOSIS and SCISEARCH (Dialog, Menlo Park, CA), and Compact Cambridge Life Sciences Collection (at the library of the University of California at Davis; covering the period 1982-1991). For government publications and reports, we searched the NISC Wildlife and Fish Worldwide database (also at the library of the University of California at Davis). Keywords used in searches included census, diversity, inventory, monitoring, air quality, and water quality.

Additional references were extracted from literature cited sections of major books and reports on inventory and monitoring (e.g., Cooperrider et al. 1986, Goldsmith 1991, Margules and Austin 1991). We also reviewed selected professional journals, such as Biological Conservation and Natural Areas Journal.
We emphasized references which dealt with the following:

(1) design considerations for inventory and monitoring projects;

(2) field methods for biological and physical survey and monitoring of natural resources, particularly evaluation of particular methods, or comparison of two or more methods;

(3) examples of planned, ongoing, or completed inventories and monitoring programs. Long-term studies of trends in particular species and communities are relatively few. We included all such references we found, as they should be worth evaluating with respect to methods used and interpretation of results;

(4) data analysis and interpretation, including analysis of census data, plant community measurement, diversity measures, and application of remote imaging;

(5) application of inventory and monitoring information.

Within this scope, we focussed our attention on papers which contained new information, provided broad reviews of applicable ideas and methods, and presented comprehensive data for particular areas. We excluded papers on tangential subjects such as edge effects, reserve design, habitat fragmentation, and GIS systems, unless they included some aspect that was specifically applicable to inventory and monitoring programs. Also, we did not include non-U.S. theses and dissertations, and other relatively inaccessible articles, unless they were judged to be particularly important.

References were entered into a dBASE-format database file, with fields for geographic area and subject / keyword, in addition to author, date, title, and source information. We reviewed as many of the articles as possible within the available time. For these articles, subject keywords were assigned and entered into the database. In addition to subject, these included geographic area of the study, where appropriate, taxonomic group of the species involved, or physical parameter being measured. Annotations were written for some references, particularly those important to the practical aspects of inventory and monitoring.

Acknowledgements

We thank the following individuals and offices for advice and assistance on the project, and for references and data in their areas of expertise: Dee Morse (Air Quality Division, Denver Service Center); Stephen D. Veirs, Jr. (Cooperative Parks Studies Unit, University of California, Davis); Jay Goldsmith, Richard Hadley, Mietek Kolipinski, and Alan Schmeirer (Division of Natural Resources and Research, Western Regional Office); and Nancy Hori (Pacific Northwest Region Librarian). We also thank the research librarians at the Bio / Ag Department of the University of California, Davis library, for their assistance in computer searches. Funding was provided by the National Park Service.
Literature Cited


Keyword Listing

Under each keyword subject area listed below is a list of numbers for references pertaining to that subject. These reference numbers are contained in the list of references, immediately preceding the author’s name. Keywords can be used in combination; to find references pertaining to data analysis and census techniques, go to the listings for those two keywords, and note the numbers / references that are listed for both.

Amphibians
56, 112, 273, 296, 560, 686, 916, 1815, 1890, 1891

Analysis / Statistics:

Birds

Biomonitors and Biomonitoring

Case studies / Background
Census / Population Estimation


Data Management

18, 42, 43, 62, 93, 405, 602, 866, 893, 903, 911, 1102, 1217, 1409, 1425, 1437, 1531, 1701, 1855, 1901, 1915, 1936, 1966

Diversity, Measurement of and General Studies

44, 46, 53, 104, 191, 269, 327, 451, 645, 701, 712, 927, 944, 966, 972, 1015, 1107, 1174, 1211, 1270, 1289, 1291, 1313, 1524, 1588, 1601, 1607, 1616, 1617, 1624, 1812, 1860, 1892

Fish

39, 67, 396, 540, 543, 849, 936, 943, 944, 1002, 1018, 1423, 1458, 1616, 1818

Invertebrates

23, 104, 292, 327, 373, 408, 482, 561, 623, 624, 627, 762, 908, 944, 1039, 1067, 1129, 1135, 1271, 1415, 1428, 1429, 1430, 1481, 1482, 1526, 1541, 1619, 1675, 1741, 1799, 1818, 1847
Inventory

Mammals

Methods, General

Models and Modelling
83, 87, 148, 275, 299, 1293, 1294, 1330

Planning
78, 84, 88, 105, 142, 143, 144, 172, 189, 206, 231, 271, 487, 590, 639, 681, 683, 734, 774, 833, 949, 1142, 1143, 1219, 1326, 1408, 1586, 1597, 1612, 1634, 1649, 1675, 1716, 1718, 1721, 1746, 1838, 1846, 1931
Plants

Quality and Reliability
36, 84, 100, 125, 129, 142, 172, 355, 428, 441, 460, 501, 712, 799, 856, 893, 925, 996, 1102, 1258, 1382, 1425, 1445, 1490, 1623, 1641, 1701, 1740, 1830, 1846, 1855, 1865, 1893, 1916

Rare / Threatened / Endangered Species
58, 178, 224, 330, 347, 382, 471, 510, 624, 737, 766, 840, 863, 934, 1000, 1219, 1271, 1280, 1289, 1308, 1355, 1385, 1419, 1513, 1527, 1541, 1601, 1616, 1722, 1812, 1943, 1945

Remote Sensing

Reptiles
112, 273, 560, 686, 916, 1186, 1368, 1890, 1891

Sampling Design

Species Number, Estimating
645, 670, 1039, 1211, 1216

Survey, Methods and Examples

Vegetation Mapping
38, 85, 86, 94, 261, 362, 372, 473, 549, 682, 716, 950, 962, 1019, 1020, 1021, 1069, 1127, 1167, 1251, 1260, 1766
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