

USER'S MANUAL FOR THE
YELLOWSTONE NATIONAL PARK
NATURAL RESOURCES BIBLIOGRAPHY

W.H. Eifert
T.A. Wesche

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W.H. Eifert
T.A. Wesche
Wyoming Water Research Center
University of Wyoming
Laramie, Wyoming

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U S E R ' S M A N U A L F O R T H E
Y E L L O W S T O N E N A T I O N A L P A R K
N A T U R A L R E S O U R C E S B I B L I O G R A P H Y

Walter H. Eifert, Thomas A. Wesche

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A Project of the University of Wyoming-
National Park Service Research Center

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INTRODUCTION

The keystone upon which effective resources management decisions are formulated can be defined as the quantity and quality of readily available information. Given the current time and budgetary constraints confronting National Park Service resource managers, an expedient, reliable and consistent means of information storage and retrieval must be made available.

With financial support provided through the University of Wyoming - National Park Service Research Center, a natural resources database addressing these concerns has been generated for Yellowstone National Park. Termed the Yellowstone National Park Natural Resources Bibliography (YNPNRB), the database can be defined as a comprehensive, computerized bibliographic storage and retrieval system consisting of Yellowstone National Park natural resources information.

The YNPNRB was developed primarily to: save time, effort and expense in locating Yellowstone National Park natural resources literature; reduce the possibility of future duplication of effort; aid in the identification of those Park areas where possible data-gaps exist; and computerize Yellowstone National Park bibliographic information to ensure rapid retrieval-updating capability.

Subject areas incorporated into the system include: water resources, fish and wildlife, range management, recreation, geology and numerous other disciplines associated with the natural resources of Yellowstone National Park. At present, the database contains approximately 8,500 citations which will hopefully grow as new information becomes available.

Bibliographic information incorporated into the YNPNRB was obtained from a variety of sources including federal and state agencies, universities, city and county offices, libraries, consulting firms, commercial database searches, and environmental and special interest groups.

DATABASE STRUCTURE

The Yellowstone National Park Natural Resources Bibliography is managed by a computer-based bibliographic storage and retrieval package called FAMULUS. The FAMULUS system was originally designed in the mid-1960's to process personal reference collections maintained by research scientists. Recent updates to the original FAMULUS package have provided extreme flexibility in storing, managing and retrieving bibliographic information. Additional refinements include an increased FAMULUS storage capability to 99,999 individual citations, increased citation descriptive capacity of up to 1,650 words per citation, and more efficient FAMULUS access, data entry and editing capabilities. The FAMULUS system is currently fully operational on the University of Wyoming's Cyber computers.

CITATION FORMAT

Efficient data collection, documentation and computer-based management procedures required citation formatting standardization at the onset of this study. To adhere to FAMULUS guidelines and provide the NPS with an easily readable citation, the following "Field" structure was developed:

<u>FIELD</u>	<u>DEFINITION</u>
AUTH	Author of publication
SORT	Author rearrangement
YEAR	Year(s) of publication(s)

TITL	Complete title of publication
SRCE	Publisher
DESC	Descriptors or key words
LOCN	Physical location of document
GEOG	Geographic area encompassed by the report

In review of the above citation "Field" structure, the AUTH, SORT, YEAR, TITL, and SRCE "Fields" are basically self-explanatory and require no further elucidation. A more indepth description of the DESC, LOCN, and GEOG "Fields" is as follows:

DESC - Subject keywords used to identify the topic of the report.

Each citation has been assigned 3 to 4 keyword descriptors for enhanced citation retrieval capability. An alphabetized listing of all YNPNRB descriptors can be found in Appendix A.

LOCN - This field identifies the repository where a copy of the actual document may be obtained. The name of the agency, library or office will be listed first followed by the city in parentheses. Those cities which are outside of Wyoming will also have the state name listed.

GEOG - Identifies the specific Park area addressed by a report.

Geographic information listed in this field includes: YNP ranger districts, major drainage basins, sub-basins and finally the particular stream, lake, geologic feature, etc. encompassed by the report. This field is particularly useful in restricting a "Search" to a specific geographic area of the Park. A map of the Yellowstone National Park Project area is presented in Appendix B.

INFORMATION RETRIEVAL

YNPNRB information retrieval is accomplished through utilization of one, a combination of several, or all of the citation formatting "Fields" previously presented. A "search" statement developed from these "Fields" can then be designed to meet the specific needs of the user. Although all of the "Fields" can be searched, past experience indicates that most NPS requests will probably be filled using a combination of the author, year, title, subject descriptor, or geographic descriptor fields.

A basic search example would be one in which the user was looking for a report by a particular individual. The YNPNRB could then be searched by AUTH and any citation listing this person, as either the author or co-author, would be retrieved. Another example of a search would be if the user was interested in obtaining all database information concerning "fisheries". If the broad term "fisheries" was used in the search statement, all "fisheries" related information would be retrieved from the database. The user could also refer to the "Descriptor Index", found in Appendix A and narrow the search term to a more specific aspect of "fisheries"; for instance, one could use the subject heading "fish diseases". The search would then be restricted to locating those YNPNRB citations that pertain to "fish diseases".

Searching for citations can become even more site- and topic-specific by using a combination of fields; for instance, someone may require information concerning water quality in the Yellowstone River above Yellowstone Lake for the years 1980 to 1983. Conjunctive use of

these parameters would retrieve references that meet all of the above criteria.

Following, on page 6, are examples of actual YNPNRB citations, listing two format options currently available to the user. In reviewing this information, one can imagine the various combinations of fields which could be used to retrieve these citations.

CONDUCTING A YNPNRB SEARCH

To provide the NPS with the greatest possible flexibility in conducting a YNPNRB Search, two techniques designed to enhance YNPNRB information retrieval have been developed. These procedures include:

A. Data Base Printout

Utilization of the YNPNRB database printout will preclude the necessity of having to conduct a computer search, thereby insuring maximum efficiency when attempting to rapidly locate desired Park information. Each printout consists of three major sections formatted as follows:

1. Thesauri of Descriptors
2. Alphabetized Indices
3. Bibliography

The Thesauri of Descriptors consists of two alphabetized key-word lists; one pertaining to subject descriptors and the second to geographic descriptors. Every subject or geographic key word incorporated into the database is listed in one of these two thesauri of descriptors.

Three alphabetized indices, consisting of an Author Index, a Subject Index and a Geographic Index, are included to provide an expedient cross-referencing capability. Included with each database author,

Field Format

1. AUTH STEBLER, A.M.
SORT STEBLER A.M.
YEAR 1972.
TITL CONSERVATION OF THE GRIZZLY--ECOLOGICAL AND CULTURAL
CONSIDERATION.
SRCE IN: BEARS--THEIR BIOLOGY AND MANAGEMENT, IUCN PUBLISHERS,
NEW SERIES NO. 23. 297-303P.
DESC GRIZZLY BEARS, CONSERVATION, ECOLOGICAL STUDIES
LOCN UNIVERSITY OF WYOMING COE LIBRARY - INTERLIBRARY
LOAN (LARAMIE)

2. AUTH STRONG, D.H.
SORT STRONG D.H.
YEAR 1978.
TITL THE YELLOWSTONE STORY: A HISTORY OF OUR FIRST NATIONAL PARK.
SRCE BOOK REVIEW OF AUBREY HAINES' BOOK FOR THE AMERICAN
HISTORICAL REVIEW.
DESC HISTORY, PARK ESTABLISHMENT, NATURAL RESOURCES, NATURAL
HISTORY
LOCN YELLOWSTONE NATIONAL PARK LIBRARY (MAMMOTH)
GEOG PARKWIDE

Annotated Format

1. Stebler, A. M. 1972. Conservation of the Grizzly--Ecological
and Cultural Consideration. In Bears--Their Biology and
Management. IUCN Publishers, New Series No. 23, 297-303 pp.

2. Strong, D. H. 1978. The Yellowstone Story: A History of our
First National Park.

subject descriptor and geographic descriptor is a listing of all applicable YNPNRB citation numbers. The use of these indices in conjunction with the Bibliography will insure rapid location of those YNP citations desired for review.

The final section contains the actual Bibliography. Arranged alphabetically by author, each citation is assigned a unique number located at the left of the citation. The user should normally begin with the alphabetized thesauri of descriptors, choose several key words, and then locate these key words in the applicable indices, e.g. Author, Subject or Geographic Index. Under each index key word will be a list of YNPNRB citation numbers that can then be located in the actual Bibliographic printout.

B. Computer "Search" Procedures

Completion of the following five steps will enable a user to initiate an effective YNPNRB computer "Search":

1. What is the main topic of your search?

EX. Fish or Wildlife; Water Quality;
Hydrology; Energy Development

2. Pick 3 or 4 "Descriptors" from Appendix A that pertain to your main topic.

-
3. If your topic is confined to a specific geographic area within the Park, use the map found in Appendix B to identify:

- a. Ranger District _____
- b. Major Drainage _____
- c. Stream, Lake, Dam, etc. _____
- d. Geologic Feature _____

4. Additional information (e.g., Author(s), Year Range, Title of Report, etc.)
-

5. "X" one or more of the following "FIELDS" you desire to search.

AUTH _____
YEAR _____
TITL _____
SRCE _____
DESC _____
GEOG _____

Contact John Varley or Bob Gresswell at the Yellowstone National Park Headquarters to have your "Search" conducted.

YNPNRB UPDATING ALTERNATIVES

The YNPNRB has been designed as a dynamic, growing system, one that should be periodically updated to keep it current. As new reports and documents are generated on the natural resources of the Yellowstone National Park, it is important that this information be included on the database. To accomplish this task, the following alternatives are provided for NPS consideration:

A. Supplemental Yellowstone National Park "Contact" List

A supplemental Yellowstone National Park "Contact List" containing names and addresses of organizations and individuals, etc., conducting research within the Park can be referenced to obtain newly generated Yellowstone National Park information.

B. Contact Cards

Distribution of self-addressed contact cards, requesting bibliographic information on newly generated reports to obtain update information.

C. Annual Visits for Update Information

Conduct annual visits to key agencies and groups who produce or collect a large number of Park reports to obtain update information.

D. Commercial Database Searches

Conduct annual commercial database searches to obtain bibliographic information on recently generated reports. These procedures can be initiated through nearby universities such as the University of Wyoming or Montana State University.

APPENDIX A
DESCRIPTOR INDEX

A

ABSTRACTS
ACCESS ROUTES
ACCOMODATIONS
ACETATE
ACID RAIN
ACID SEEPAGES
ACIDIC SOILS
ACIDIC WATER
ACIDIFICATION
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ADMINISTRATIVE AGENCIES
ADMINISTRATIVE DECISIONS
ADMINISTRATIVE POLICY
ADMINISTRATIVE PROCEDURES
ADMINISTRATIVE REGULATIONS
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ADVERTISING
AERIAL PHOTOGRAPHY
AERIAL SURVEILLANCE
AEROMAGNETIC MAP
AERONAUTICAL MAP
AEROSOLS
AESTHETIC VALUES
AFTERSHOCK
AGING
AGRICULTURAL HYDROLOGY
AGRICULTURAL WATERSHEDS
AGRICULTURE
AGRONOMIC CROPS
AGRONOMY
AIR POLLUTION
AIR QUALITY
AIRCRAFT
AIRPORTS
ALCOHOLIC BEVERAGES
ALFALFA
ALGAE
ALGAL
ALGAL GROWTH
ALKALINE
ALKALINITY
ALLERGENS
ALLUVIAL DEPOSITS
ALPINE REGIONS
ALTERATION OF FLOW
ALTERNATIVE PLANNING
ALTITUDE
AMPHIBIANS
AMPHITHEATER
AMPLITUDE
ANAPLASHOSIS
ANECDOTES
ANESTHETICS
ANIMAL BEHAVIOR
ANIMAL DISEASES

ANIMAL ECOLOGY
ANIMAL HABITATS
ANIMAL PATHOLOGY
ANIMAL PHYSIOLOGY
ANIMAL POPULATIONS
ANIMAL RELATIONSHIPS
ANIMAL REPRODUCTION
ANIMALS
ANNUAL REPORT
ANTELOPE
ANTHROPOLOGY
ANTLERS
ANTS
APPRAISALS
AQUATIC ANIMALS
AQUATIC ENVIRONMENT
AQUATIC FISH
AQUATIC HABITATS
AQUATIC INSECTS
AQUATIC LIFE
AQUATIC MANAGEMENT
AQUATIC PLANTS
AQUATIC POPULATIONS
AQUATIC PRODUCTIVITY
AQUATIC REPRODUCTIVITY
AQUATIC VEGETATION
AQUEDUCTS
AQUIFER TESTING
AQUIFERS
ARABLE LANDS
ARCHEOLOGY
ARCHITECTURAL DRAWINGS
ARCHITECTURE
ARCHIVES
ARCTIC GRAYLING
ARGON
ARMY
ARSENIC
ART
ARTIFICIAL FEEDING
ARTISTS
ASPEN
ASSESSMENTS
ASTRONOMY
ATLAS
ATMOSPHERE
ATMOSPHERIC PARTICLES
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AUTO ROADS
AUTOBIOGRAPHY
AUTOMOBILES
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AVALANCHES
AVERAGE FLOWS
AVES
BACKCOUNTRY MANAGEMENT

B

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BACTERIAL ANALYSIS
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BALD EAGLES
BANDING
BANKFULL STAGE
BARHOCK INDIANS
BARHOCK TRIBE
BAROMETRIC PRESSURE
BASALT
BASELINE STUDIES
BASIN CHARACTERISTICS
BASINS
BASS
BATHYMETRY
BATHYTHERMOGRAPHICS
BATS
BEARS
BEAVER CONTROL
BEAVERS
BEETLES
BEHAVIOR STUDIES
BENTHIC ALGAE
BENTHIC FAUNA
BENTHIC FLORA
BENTHOS
BENTHOS RIFFLES
BIBLIOGRAPHY
BICYCLING
BIG GAME
BIGHORN MOUNTAIN SHEEP
BIGHORN SHEEP
BIOCHEMICAL TESTS
BIOCHEMISTRY
BIOGRAPHICAL MAP
BIOGRAPHY
BIOLOGICAL MAP
BIOLOGICAL STUDIES
BIOLOGY
BIOTELEMETRY
BIOTIC FACTORS
BIRD WATCHING
BIRDS
BISON
BITING FLIES
BLACK BEARS
BLACK-SPOTTED TROUT
BLOOD ANALYSIS
BLOOD SAMPLES
BLUEBIRDS
BOARDWALK MAINTENANCE
BOAT LAUNCHES
BOATING
BOATING FACILITIES
BOATING SAFETY
BOATING USE

BONE CHARACTERISTICS
BONE MARROW
BOREHOLES
BORIC ACID
BORINGS
BORON
BOTANY
BOUNDARIES
BOUNDARY CONTROL
BOYS CAMP
BRECCIA
BREEDING
BRIDGES
BRIDLE TRAILS
BRINE FLIES
BROCHURE
BROOK TROUT
BROWN BEARS
BROWN TROUT
BRUCELLOSIS
BUDGETING
BUFFALO
BUFFALO RANCH
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BUILDING PLANS
BUILDINGS
BUNKHOUSES
BUSINESS FORMS
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CALENDAR
CALIFORNIA GULLS
CAMPGROUND INTERPRETIVE DEVICE
CAMPGROUNDS
CAMPING
CAMPS
CAMPSITE CONSTRUCTION
CAMPSITES
CANADA GOOSE
CANYONS
CAPTURE
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CARBON DIOXIDE
CARBON ISTOPE
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CARTOONS
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CATCH AND RELEASE FISHING
CATCHMENT AREAS
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CATTLE
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CAVERN FLOW
CAVES
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CENSUS

CERVIDS
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CHANNEL MORPHOLOGY
CHAPELS
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CHARCOAL
CHEMICAL ANALYSIS
CHEMICAL CHARACTERISTICS
CHEMICAL COMPOSITION
CHEMICAL CONTROL
CHEMICAL PROPERTIES
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CHIPPEWA INDIANS
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CLIMATIC DATA COLLECTIONS
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COMMUNITY ADJUSTMENT PATTERNS
COMMUNITY HEALTH SERVICES
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COMPARATIVE STUDIES
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HEAT FLOW
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HEAT TRANSFER
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APPENDIX B

YELLOWSTONE NATIONAL PARK GEOGRAPHIC MAP KEY

YELLOWSTONE NATIONAL PARK
GEOGRAPHIC MAP KEY

A. NORTHWEST SECTION: Gallatin River Drainage

A-1. Gallatin River

B. WEST SECTION: Madison River Drainage

B-1. Grayling Creek Drainage

B-2. Duck Creek Drainage

B-3. Gibbon River Drainage

B-4. Firehole River Drainage

B-5. Madison River

C. SOUTHWEST SECTION: Lower Snake River Drainage

C-1. Bechler River Drainage

C-2. Falls River Drainage

D. SOUTHCENTRAL SECTION: Upper Snake River Drainage

D-1. Snake River Drainage

D-2. Lewis River Drainage

E. CENTRAL SECTION: Upper Yellowstone River Drainage

E-1. Yellowstone River Basin above Yellowstone Lake

E-2. Yellowstone Lake

E-3. Yellowstone River Basin below Yellowstone Lake

F. NORTH SECTION: Lower Yellowstone River Drainage

F-1. Gardner River Basin

F-2. Yellowstone River Basin below Lower Falls

G. NORTHEAST SECTION: Lamar River Drainage

G-1. Slough Creek Drainage

G-2. Soda Butte Creek Drainage

G-3. Cache Creek Drainage

G-4. Lamar River

H. EAST SECTION: Shoshone River Drainage

H-1. Middle Creek Drainage

APPENDIX C

YELLOWSTONE NATIONAL PARK PROJECT MAP

