

USER'S MANUAL
FOR THE
WYOMING WATER BIBLIOGRAPHY

by

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INTRODUCTION

The Wyoming Water Bibliography (WWB) was initiated to provide a comprehensive, computerized, bibliographic storage and retrieval system dealing with the development, management, and use of Wyoming's water resources. At present, the WWB contains 11,000 citations. However, please keep in mind that this is a dynamic system, one that hopefully will continue to grow in coming years as new reports are published and incorporated into the WWB by the Wyoming Water Research Center.

The need for the WWB was identified by the Governor's Office as a tool to be used in the careful planning and management of the development of Wyoming water resources. Since references are readily available from the many varied disciplines in the water field, the database can save time and effort in searching for literature on a given water topic. When evaluating projects, contemplating the need for a study, or determining what information has already been collected in an area of concern, the WWB can be accessed and citation information dealing with the subject retrieved for review. Included with each bibliographic citation is a listing of one or more locations where the physical document may be found. This benefits the user in being able to review or obtain a copy of the publication if needed.

The WWB is a multidisciplinary system dealing with all aspects of water. Subject areas included are ground and surface water hydrology, water quality, water development, water management, water law, fish and wildlife, energy development, economics, recreation and various other disciplines related to water.

Information for the bibliography was obtained from a variety of sources including state and federal agencies, universities, city and

county offices, public libraries, consulting firms, commercial database searches, and many personal contacts with other individuals involved with Wyoming's water. These sources were most valuable in furnishing information to make the WWB as complete as possible.

DATABASE STRUCTURE

The Wyoming Water 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 citations. Additional refinements include an increased FAMULUS storage capability to 99,999 individual citations, increased citation descriptive summary capacity of up to 1,650 words per citation, and more efficient FAMULUS access, data entry and editing capabilities.

CITATION FORMAT

Each citation retrieved from the system is in a standard format for ease of review. Following is a listing of the format fields and their purposes:

AUTH - Author(s) names using initials only for first and middle.

YEAR - Year in which the report was published. Some citations may cover more than one year, for instance annual reports. These would have the range of years included on the same citation.

TITL - Exact title as shown on document.

- SRCE - Name of agency, university, company, journal, etc. which was responsible for publishing or was the source of the document. This field also lists the number of pages in the document when available.
- LOCN - Physical location of the document being cited. For this field the name of the office, agency, or library, will be listed first followed by the name of the city in parentheses. Those cities which are outside Wyoming will also have the state name listed.
- DESC - Keywords used to describe the subject area of the report using standard terms from the Water Resources Thesaurus, 3rd Edition (1980) published by the U.S. Department of the Interior. Keywords used in the DESC section of each citation are listed in Appendix A.
- GEOG - Identifies the particular geographic area which the document encompasses. For documents dealing with other areas of the United States in addition to Wyoming, "National" will be listed as the GEOG term. The same applies if dealing on a regional scale; only "Regional" will be listed. If a publication encompasses the State of Wyoming as a whole or various areas throughout the State, only "Statewide" will be listed under GEOG. When a document is confined to a specific area of the state, several descriptors may be used to define the point of interest. The first geographic descriptor lists one or more of the four major water divisions into which the State of Wyoming is divided. Next, the county or counties where the area of interest is incorporated, followed by the major drainage basins, sub-basins, and finally, the particular stream, lake, canal, reservoir, aquifer, dam name, etc. which may be involved. For example, GEOG WATER DIVISION 1, ALBANY COUNTY, MISSOURI RIVER BASIN, PLATTE RIVER BASIN, CASPER AQUIFER. The detail of the particular geographic location depends on the amount of information that could readily be withdrawn when the citation was originally collected. Maps showing the water divisions, counties, and drainage basins along with their listing within the State of Wyoming are presented in Appendix B.

CITATION RETRIEVAL

In order to retrieve citations from the WWB, fields from the citation format are used either singly or in combination with each other. Author, year, title, descriptor (keywords), or geographical

location would be the primary fields of interest to a user when performing a search.

An easy example would be if the user was looking for a report by a particular person. The WWB could then be searched by author and any citation in which this person was listed as the author or co-author would be retrieved. Another example of a search would be if the user was interested in all information dealing with "irrigation". If the broad term "irrigation" was used, the user would receive all citations listing "irrigation". The user could also refer to the descriptor index (Appendix A) and narrow the search term to a more specific aspect of "irrigation"; for instance, one could use the subject heading "irrigation permits". The search would then involve any citations in the Bibliography dealing with "irrigation permits".

Searching for citations can become even more site- and topic-specific by using a combination of fields; for instance, someone might look for information dealing with water quality in the Laramie River within Albany County from years 1980 to 1983. These parameters could be used in combination to retrieve references that meet all those criteria.

Following, on page 5, are some examples of citations within the Wyoming Water Bibliography, to show the amount of information within each field. From this, one can imagine the various combinations of fields which could be used to retrieve these citations. Included on page 6 are the various steps to be followed in conducting a WWB Search.

TITL GEOTECHNICAL INVESTIGATIONS AND DESIGN ANALYSIS FOR SAVERY DAM.
YEAR 1982.
AUTH ROLLINS, BROWN AND GUNNELL, INC.
SRCE WATER DEVELOPMENT COMMISSION. CHEYENNE, WY. 75P.
DESC DAM DESIGN, DAMSITES, GEOHYDROLOGY, GEOLOGICAL SURVEYS, SPILLWAY CAPACITY, RESERVOIR SITING, WATER
RESOURCES DEVELOPMENT
LOCN WYOMING WATER RESEARCH CENTER (LARAMIE), WESTERN WATER CONSULTANTS (LARAMIE),
WATER DEVELOPMENT COMMISSION (CHEYENNE).
GEOG WATER DIVISION 1, CARBON COUNTY, COLORADO RIVER BASIN, GREEN RIVER BASIN, LITTLE SNAKE RIVER BASIN,
SAVERY CREEK, SAVERY DAM

TITL A PERSPECTIVE ON ENERGY DEVELOPMENT IN WYOMING.
YEAR 1981.
AUTH HERSCHLER, E.
SRCE UNIVERSITY OF WYOMING INSTITUTE OF ENERGY AND ENVIRONMENT. LARAMIE, WY. 40P.
DESC WATER QUANTITY, AVAILABLE WATER, INDUSTRIAL WATER, WATER RESOURCES DEVELOPMENT
LOCN WYOMING WATER RESEARCH CENTER (LARAMIE), STATE PLANNING AND COORDINATION OFFICE, (CHEYENNE).
GEOG STATEWIDE

TITL WYOMING WATER AND IRRIGATION LAWS.
YEAR 1975.
AUTH STATE ENGINEER'S OFFICE.
SRCE STATE ENGINEER'S OFFICE. CHEYENNE, WY. 168P.
DESC WATER LAW, IRRIGATION, WATER RIGHTS, LEGAL ASPECTS, WATER PERMITS
LOCN WYOMING WATER RESEARCH CENTER (LARAMIE), STATE ENGINEER'S OFFICE (CHEYENNE).
GEOG STATEWIDE

TITL WATER RESOURCES INVENTORY FOR WATER DIVISION NUMBER 3, INCLUDING BIG HORN RIVER & TRIBUTARIES & CLARK'S
FORK RIVER & TRIBUTARIES.
YEAR 1965.
AUTH BEREMAN, J.S.
SRCE STATE ENGINEER'S OFFICE. CHEYENNE, WY. 69P.
DESC SURFACE WATER, GROUNDWATER, HYDROLOGIC DATA, HYDROLOGIC DATA COLLECTIONS, WATER SUPPLY, WATER USE
LOCN ALBANY COUNTY LIBRARY (LARAMIE), STATE ENGINEER'S OFFICE (CHEYENNE), DEPARTMENT OF ECONOMIC PLANNING AND
DEVELOPMENT (CHEYENNE).
GEOG WATER DIVISION 3, MISSOURI RIVER BASIN, YELLOWSTONE RIVER BASIN, BIG HORN RIVER

STEPS IN CONDUCTING A WWB SEARCH

1. What is your main topic of search? _____
2. Pick 3 to 4 "Descriptors" from Appendix A, that pertain to your main topic.

3. If your topic is confined to a specific geographic area of Wyoming, complete one or more of the following categories listed in Appendix B.
 - a) Water Division # _____
 - b) County _____
 - c) Major Drainage Basin _____
 - d) Sub-Basin _____
 - e) If you have a specific stream, lake, dam, city, etc.

4. Please add any additional information which you think may help the database searcher retrieve a more complete and accurate bibliography.
5. Contact: _____

Walt Eifert, Tom Wesche or Greg Kerr
Wyoming Water Research Center
P.O. Box 3067, University Station
Laramie, Wyoming 82071
(307) 766-2143

BIBLIOGRAPHY UPDATE

The WWB has been designed as a dynamic, growing system, one that is periodically updated to keep it current. As new reports and documents are produced on Wyoming's water resources, it is important for all users of the system that these new citations be included. If this is not done, the WWB will soon become out-of-date, inefficient, and of limited value.

To accomplish the updating, a three-step approach has been adopted. First, during the massive citation collection effort conducted by Water Center personnel in 1983, citation cards were left with each organization contacted. As organizations publish new reports, they were asked to fill out a card and return it to the Water Center for inclusion in the WWB. Second, we anticipate the Water Center will be routinely contacting key agencies and groups who produce or collect a large number of water reports to obtain update information. Third, we would like to ask you, the users of the WWB, to lend a hand. In Appendix C you will find a set of citation cards ready to be filled out. As you come across or produce new reports on Wyoming water, please take a few minutes to fill out a card and mail it to us at the address printed on the back. Your help will be greatly appreciated.

APPENDIX A
DESCRIPTOR INDEX

DESCRIPTOR INDEX

A ABIES LASIOCARPA

ABLATION
ABSORPTION
ACCESS ROOTS
ACCOUNTING
ACCRETION
ACCUMULATION
ACID MINE DRAINAGE
ACID RAIN
ACIDIC WATER
ACIDITY
ACTIVATED CARBON
ADAPTATION
ADJUDICATION
ADJUDICATION PROCEDURE
ADMINISTRATION
ADMINISTRATIVE AGENCIES
ADMINISTRATIVE DECISIONS
ADMINISTRATIVE REGULATIONS
ADSORPTION
AEOLIAN SOILS
AERATED LAGOONS
AERATION
AERIAL PHOTOGRAPHY
AEROSOLS
AESTHETICS
AGING
AGRICULTURAL ENGINEERING
AGRICULTURAL HYDROLOGY
AGRICULTURAL RUNOFF
AGRICULTURAL WATERSHEDS
AGRICULTURE
AGRONOMIC CROPS
AIR POLLUTION
AIR TEMPERATURE
AIR-WATER INTERFACES
ALFALFA
ALGAE
ALGAL GROWTH
ALKALINE SOILS
ALKALINE WATER
ALLUVIAL AQUIFERS
ALLUVIAL CHANNELS
ALLUVIAL DEPOSITS
ALLUVIAL FANS
ALLUVIAL PLAINS
ALLUVIUM
ALPINE REGIONS
ALTERNATIVE PLANNING
ALTERNATIVE WATER USE
ALTITUDE
AMMONIA
ANALYSIS
ANEMOMETERS
ANIMAL PATHOLOGY
ANIMAL POPULATIONS
ANISOTROPY
ANNUAL RUNOFF
APPLICATION RATES
APPRAISALS
APPROPRIATION
AQUACULTURE
AQUATIC ANIMALS
AQUATIC DRIFT
AQUATIC ECOSYSTEMS
AQUATIC ENVIRONMENT
AQUATIC HABITATS
AQUATIC INSECTS
AQUATIC LIFE
AQUATIC POPULATIONS

AQUATIC PRODUCTIVITY
AQUATIC WEED CONTROL
AQUEDUCTS
AQUICLUDES
AQUIFER CHARACTERISTICS
AQUIFER MANAGEMENT
AQUIFER SYSTEMS
AQUIFER TESTING
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ARCH DAMS
ARCHAEOLOGY
ARCTIC GRAYLING
AREA
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ARID LANDS
ARSENIC
ARSENIC COMPOUNDS
ARTESIAN BASINS
ARTESIAN FLOW
ARTESIAN PRESSURE
ARTESIAN SPRINGS
ARTESIAN WELLS
ARTIFICIAL PRECIPITATION
ASPHALT
ASPHALTIC CONCRETE
ASSESSMENTS
ATMOSPHERE
ATMOSPHERIC PHYSICS
ATMOSPHERIC WATER
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ATTITUDES
AUTOMATION
AVAILABLE WATER
AVALANCHES
AVERAGE FLOW

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BAFFLES
BANK STABILIZATION
BARLEY
BARRIERS
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BASELINE STUDIES
BASIN IRRIGATION
BASINS
BASS
BEANS
BEAVERS
BED LOAD
BED-LOAD DISCHARGE
BEETS
BEHAVIOR
BENCH FLUMES
BENEFICIAL USE
BENEFITS
BENTHIC FAUNA
BENTHOS
BENTONITE
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BIODEGRADATION
BIOINDICATORS
BIOLOGICAL COMMUNITIES
BIOLOGICAL PROPERTIES
BIOLOGICAL SAMPLES
BIRDS
BLANEY-CRIDDLE METHOD
BLIZZARDS
BLOWING SNOW
BOATING

BOGS
BORDER IRRIGATION
BOREHOLE GEOPHYSICS
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BORIC ACID
BORON
BOTTOM SAMPLING
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BRIDGE CONSTRUCTION
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BUDGETING
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C

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CALCIUM
CALCIUM COMPOUNDS
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CHEMISTRY OF PRECIPITATION
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CHLORELLA
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CIVILIAN PARTICIPATION
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CLAY MINERALS
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 CLIMATIC DATA
 CLIMATIC ZONES
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 CLOUD PHYSICS
 CLOUD SEEDING
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 COAL FIELDS
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 COLD REGIONS
 COLD WEATHER
 COLIFORMS
 COMMERCIAL FISHING
 COMMUNITY DEVELOPMENT
 COMPARISON STUDIES
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 COMPREHENSIVE PLANNING
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 COMPUTER MODELS
 COMPUTER PROGRAMS
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 COST SHARING
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 CRYSTALS
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 CYANOPHYTA
D DAM CONSTRUCTION
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 ELECTRIC POWER DEMAND
 ELECTRIC POWER INDUSTRY
 ELECTRIC POWER PRODUCTION
 ELECTRIC POWERPLANTS
 ELECTRICAL EQUIPMENT
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 ELECTRICAL PROPERTIES
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 EMINENT DOMAIN
 EMPLOYMENT
 EMULSIONS
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 ENERGY CONSERVATION
 ENERGY CONVERSION
 ENERGY DEVELOPMENT
 ENERGY HEAT TRANSFER
 ENERGY SOURCES
 ENERGY TRANSFER
 ENERGY WATER POLLUTION SOURCES
 ENGINEERING
 ENGINEERING GEOLOGY
 ENRICHMENT
 ENTHALPY

ENTROPY	FISH ESTABLISHMENT	G FUTURE PLANNING
ENVIRONMENT	FISH FOOD	GAGING STATIONS
ENVIRONMENTAL ASPECTS	FISH FOOD ORGANISMS	GAS
ENVIRONMENTAL ASSESSMENT	FISH HANDLING FACILITIES	GAS CHROMATOGRAPHY
ENVIRONMENTAL CONTROL	FISH HARVEST	GASOLINE
ENVIRONMENTAL EFFECTS	FISH HATCHERIES	GATES
ENVIRONMENTAL ENGINEERING	FISH MANAGEMENT	GELS
ENVIRONMENTAL GRADIENT	FISH MIGRATION	GEOCHEMISTRY
ENVIRONMENTAL IMPACT ANALYSIS	FISH PHYSIOLOGY	GEOGRAPHICS
ENVIRONMENTAL IMPACT STATEMENT	FISH PONDS	GEOGRAPHY
ENVIRONMENTAL POLICY	FISH POPULATIONS	GEOHYDROLOGY
ENVIRONMENTAL PROTECTION	FISH STOCKING	GEOLOGIC EROSION
ENVIRONMENTAL QUALITY	FISH TOXINS	GEOLOGIC FORMATIONS
ENVIRONMENTAL SURVEYS	FISHERIES	GEOLOGIC HISTORY
ENZYMES	FISHING	GEOLOGIC MAPPING
EPHEMERAL STREAMS	FLOATING	GEOLOGIC UNITS
EQUITABLE APPORTIONMENT	FLOCCULATION	GEOLOGICAL SURVEYS
EROSION	FLOOD BASINS	GEOLOGY
EROSION CONTROL	FLOOD CONTROL	GEOMORPHOLOGY
ERTS	FLOOD CONTROL DAMS	GEOPHYSICS
ESTIMATING	FLOOD CREST	GEO THERMAL POWER
EUTROPHICATION	FLOOD DAMAGE	GEO THERMAL RESOURCES
EVALUATION	FLOOD DATA	GEO THERMAL STUDIES
EVAPORATION	FLOOD DISCHARGE	GEYSERS
EVAPORATION AREA	FLOOD FLOW	GLACIAL DRIFT
EVAPORATION CONTROL	FLOOD FORECASTING	GLACIAL LAKES
EVAPORATION PANS	FLOOD FREQUENCY	GLACIATION
EVAPOTRANSPIRATION	FLOOD PEAK	GLACIERS
EVAPOTRANSPIRATION CONTROL	FLOOD PLAIN MANAGEMENT	GLACIOHYDROLOGY
EVAPOTRANSPIRATION POTENTIAL	FLOOD PLAIN ZONING	GOVERNMENTAL INTERRELATIONS
EXPANSION	FLOOD PLAINS	GRAIN CROPS
EXPANSIVE SOILS	FLOOD PROTECTION	GRANITES
EXPENDITURES	FLOOD SPREADING	GRASSES
EXPERIMENTAL BASINS	FLOOD STAGES	GRASSLANDS
EXPERIMENTAL DATA	FLOOD WATER	GRAVEL
EXPERIMENTAL FARMS	FLOODING	GRAZING
EXPLOITATION	FLOODS	GROUNDWATER
EXPLORATION	FLOODWATER	GROUNDWATER AVAILABILITY
EXPLOSIONS	FLORA	GROUNDWATER BASINS
F FACTOR ANALYSIS	FLOTATION	GROUNDWATER DEPLETION
FALLOUT	FLOW	GROUNDWATER DEVELOPMENT
FARM MANAGEMENT	FLOW CHARACTERISTICS	GROUNDWATER DISCHARGE
FARM WASTES	FLOW CONTROL	GROUNDWATER HYDROLOGY
FARMING	FLOW DISCHARGE	GROUNDWATER INVENTORY
FARMS	FLOW DURATION	GROUNDWATER IRRIGATION
FAULT SPRINGS	FLOW MEASUREMENT	GROUNDWATER LEVEL
FAUNA	FLOW PATTERN	GROUNDWATER LOGGING--RECORDING
FEASIBILITY STUDIES	FLOW RATES	GROUNDWATER MANAGEMENT
FEDERAL JURISDICTION	FLOWING WELLS	GROUNDWATER MOVEMENT
FEDERAL WATER POLLUTION CONTROL ACT	FLOWMETERS	GROUNDWATER POLLUTION
FENCES	FLUMES	GROUNDWATER POTENTIAL
FERTILITY	FLUORESCENCE	GROUNDWATER QUALITY
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FERTILIZERS	FLUSHING	GROUNDWATER RESERVOIRS
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FILTRATION	FORECASTING	GROWTH
FINANCIAL FEASIBILITY	FOREST FIRES	GROWTH KINETICS
FINANCING	FOREST HYDROLOGY	GROWTH RATES
FINITE DIFFERENCE METHODS	FOREST MANAGEMENT	GROWTH STAGES
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FISH	FORESTRY	GULLY EROSION
FISH BARRIERS	FORESTS	HABITATS
FISH BEHAVIOR	FRACTURE PERMEABILITY	HAIL
FISH CONSERVATION	FREEZING	HANDBOOKS
FISH CONTROL AGENTS	FROST	HAZARDOUS MATERIALS
FISH DIETS	FROST HEAVING	HAZARDS
FISH DISEASES	FUEL	HEADWATER CONTROL
FISH EGGS	FURROWS	HEADWATERS

HEAT
HEAT BALANCE
HEAT BUDGET
HEAT-CAPACITY METHOD
HEAT FLOW
HEAT TRANSFER
HEAVY METALS
HELIUM
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HETEROGENEITY
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HISTORY
HORTICULTURE
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INSTITUTIONAL CONSTRAINTS
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INTERNATIONAL AGREEMENTS
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 WASTEWATER DISPOSAL
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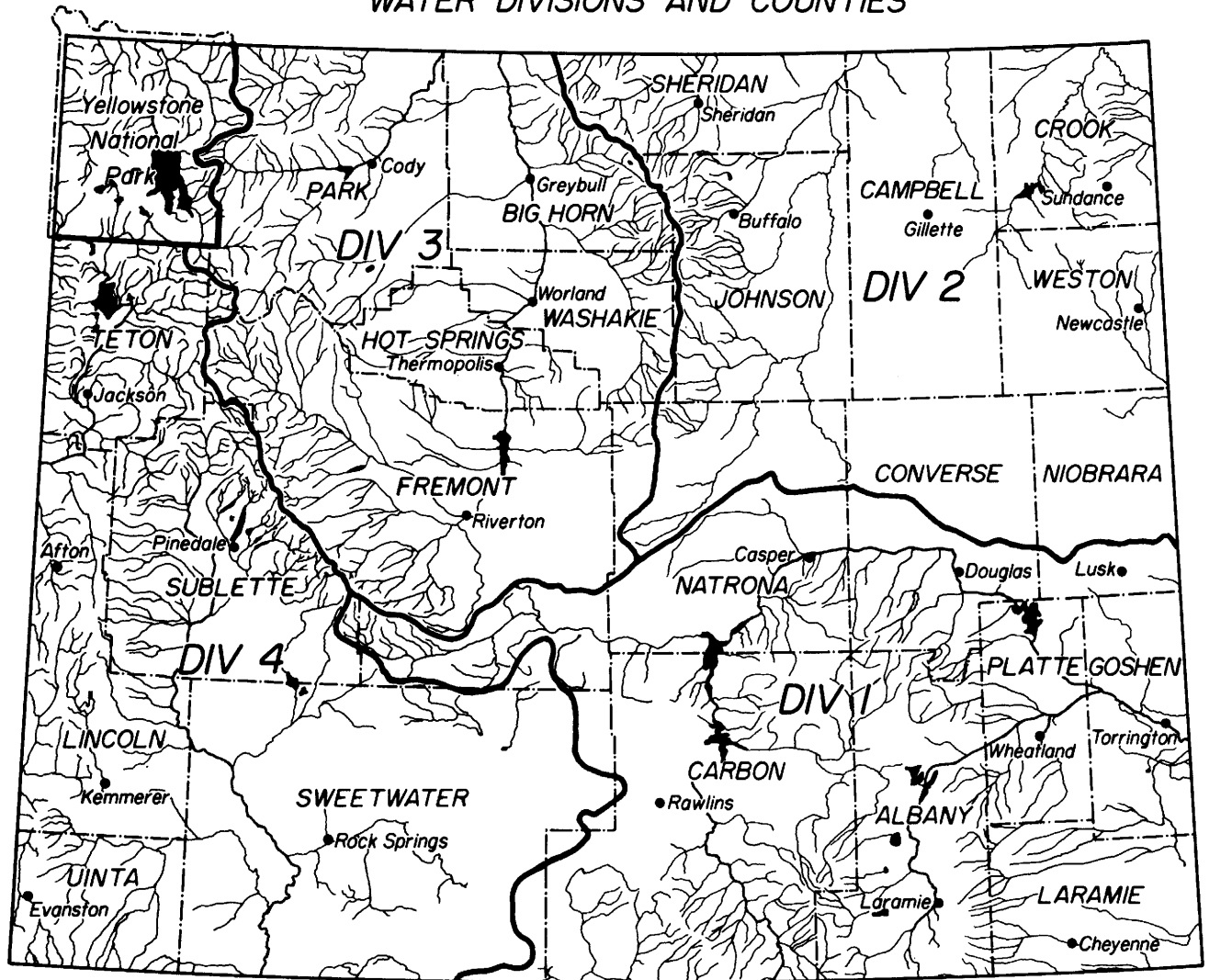
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 WATER TABLE WELLS

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 WATER TRANSPORT
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 WATER TREATMENT FACILITIES
 WATER USE
 WATER USERS
 WATER VAPOR
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 WATER YIELD IMPROVEMENT
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 WATERSHED DEVELOPMENT
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 WIND
 WIND EROSION
 WIND VELOCITY
 WINDBREAKS
 WOOD WASTES
 Z ZOOPLANKTON

APPENDIX B

WYOMING MAPS

WATER DIVISIONS AND COUNTIES



Water Divisions

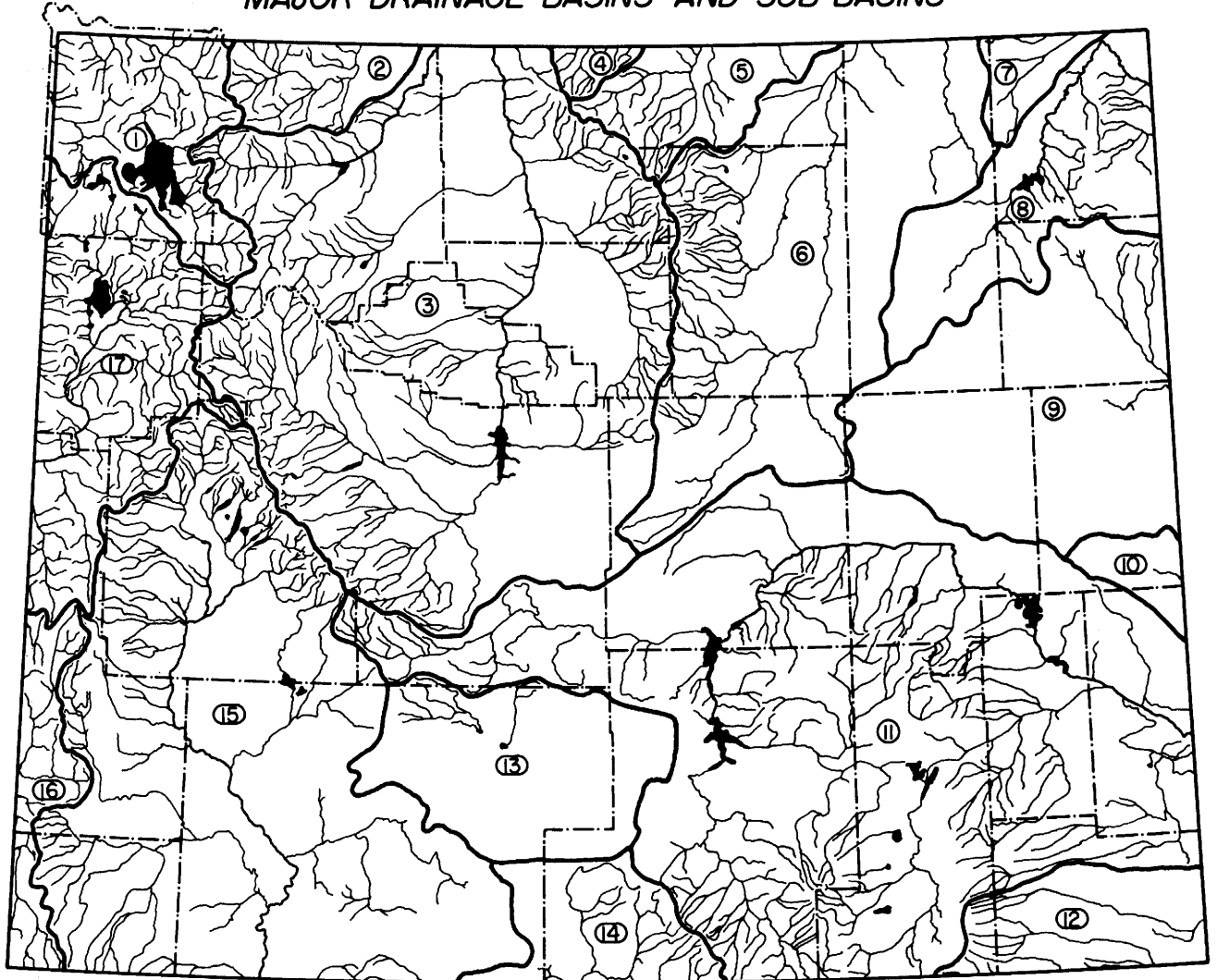
Division 1
Division 2
Division 3
Division 4

Counties

Albany	Natrona
Big Horn	Niobrara
Campbell	Park
Carbon	Platte
Converse	Sheridan
Crook	Sublette
Fremont	Sweetwater
Goshen	Teton
Hot Springs	Uinta
Johnson	Washakie
Laramie	Weston
Lincoln	

Yellowstone
National Park

MAJOR DRAINAGE BASINS AND SUB-BASINS



Missouri River Basin

- 1 Yellowstone
- 2 Clarks Fork
- 3 Big Horn
- 4 Little Big Horn
- 5 Tongue
- 6 Powder
- 7 Little Missouri
- 8 Belle Fourche
- 9 Cheyenne
- 10 Niobrara
- 11 North Platte
- 12 South Platte

Great Divide Basin

- 13 Great Divide

Colorado River Basin

- 14 Little Snake
- 15 Green

Great Basin

- 16 Bear

Snake River Basin

- 17 Snake

APPENDIX C
CITATION INFORMATION CARDS

WYOMING WATER BIBLIOGRAPHY 1983

AUTHOR:

YEAR:

TITLE:

SOURCE (PUBLISHER):

SUMMARY:

LOCATION:

WYOMING WATER BIBLIOGRAPHY 1983

AUTHOR:

YEAR:

TITLE:

SOURCE (PUBLISHER):

SUMMARY:

LOCATION:

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AUTHOR:

YEAR:

TITLE:

SOURCE (PUBLISHER):

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LOCATION:

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Water Bibliography Project
University of Wyoming
P.O. Box 3067
University Station
Laramie, WY 82071

Questions? Please call: (307) 766-2143

Please send a copy of the report, if possible.

Thank you

Please send to:

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Water Bibliography Project
University of Wyoming
P.O. Box 3067
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Laramie, WY 82071

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