

nawdex

NATIONAL WATER DATA EXCHANGE

**DIRECTORY OF ASSISTANCE CENTERS
OF THE
NATIONAL WATER DATA EXCHANGE
(NAWDEX)**

U.S. GEOLOGICAL SURVEY
Open-File Report 82-925



DIRECTORY OF ASSISTANCE CENTERS OF THE NATIONAL WATER DATA EXCHANGE (NAWDEX)

By Beverly M. Josefson and Cassandra D. Blackwell

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Open-File Report 82-925
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**UNITED STATES DEPARTMENT OF THE INTERIOR
JAMES G. WATT, Secretary**

**GEOLOGICAL SURVEY
Dallas L. Peck, Director**

For additional information write to:

**Chief Hydrologist
U.S. Geological Survey, WRD
421 National Center
Reston, Virginia 22092**

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DIRECTORY OF ASSISTANCE CENTERS OF THE NATIONAL WATER DATA EXCHANGE (NAWDEX)

By

Beverly M. Josefson and Cassandra D. Blackwell

ABSTRACT

The National Water Data Exchange (NAWDEX), managed by the U.S. Geological Survey, has established a network of Assistance Centers throughout the United States and Puerto Rico to assist users of water data in identifying and locating the data they need. This Directory provides the information needed to contact any of the established Centers.

INTRODUCTION

The National Water Data Exchange (NAWDEX) is a nationwide program managed by the U.S. Geological Survey to assist users of water data or water-related data in identifying, locating, and acquiring needed data. NAWDEX is a confederation of water-oriented organizations working together to make their data more readily accessible and to facilitate a more efficient exchange of water data.

NAWDEX services are available through a Program Office located at the U.S. Geological Survey's National Center in Reston, Va., and a nationwide network of Assistance Centers established in 45 states and Puerto Rico to provide local and convenient access to NAWDEX facilities. This Directory provides the names of organizations and persons to contact, addresses, telephone numbers, and the various types of data and services available at each location. Major computerized data systems accessed at each center are also identified. Acronyms used to identify these systems are listed in the appendix.

SERVICES AVAILABLE

Various user services are provided by NAWDEX. These include assistance in identifying and locating needed water data and referring the requester to the organization that retains the data required. A Master Water Data Index (MWDI) is maintained which enables NAWDEX to locate those sites for which desired water data are available, and to provide the identifying information for each site necessary to obtain the data from the organization retaining it. A Water Data Sources Directory (WSDS) is also maintained that identifies organizations that are sources of water data and locations within these organizations from which data may be obtained. NAWDEX services are available to any organization or individual.

SERVICE CHARGES

Charges for NAWDEX services are assessed at the option of the organization providing the requested data or data service. Data search assistance services are provided free by NAWDEX to the greatest extent possible. Charges are assessed, however, for those requests requiring computer services, extensive personnel time, duplicating services, or service costs accrued by NAWDEX from other sources in the course of providing services. In all cases, charges assessed by NAWDEX Assistance Centers will not exceed the direct costs incurred in responding to the data request. Estimates of cost are provided by NAWDEX upon request and in all cases where costs are anticipated to be substantial.

ADDITIONAL INFORMATION

For additional information concerning the NAWDEX program or its services, contact:

Program Office
National Water Data Exchange (NAWDEX)
U.S. Geological Survey
421 National Center
12201 Sunrise Valley Drive
Reston, Virginia 22092

Telephone: (703) 860-6031
 FTS 928-6031

LOCATIONS OF NAWDEX ASSISTANCE CENTERS

ALABAMA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 520 19th Avenue, Tuscaloosa, AL 35401

TELEPHONE:

Commercial: (205) 752-8104

Central Time

FTS: 229-2957

NAWDEX CONTACT: Hillary H. Jeffcoat

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation

Geographical Coverage: State of Alabama

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, WRSIC

DESCRIPTION OF EQUIPMENT USED: Data 100 Terminal

ALASKA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 733 West Fourth Avenue, Suite 400, Anchorage, AK 99501

TELEPHONE:

Commercial: (907) 271-4138

Alaska-Hawaii Time (Pacific time

FTS: 8-(907)-271-4138

minus 2 hours)

NAWDEX CONTACT: Robert D. Lamke

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Alaska

Media in Which Data Stored: Published, Computer-accessed printouts
from WATSTORE, MWDI, GWSI

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100 Terminal

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: Project Reports (as long as surplus printed copy available)

ARIZONA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 301 West Congress Street, FB-44, Tucson, AZ 85701

TELEPHONE:

Commercial: (602) 792-6629

Mountain Time

FTS: 762-6629

NAWDEX CONTACT: Colleen Babcock

ARIZONA--Continued

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of Arizona
Media in Which Data Stored: Machine readable, Hard copy files, Published
Types of Media Output: Magnetic tape, Magnetic disk, Computer printout,
Published (Printed), Graphics

MAJOR COMPUTER DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Datapoint 1134 and 1500 terminals, Calcomp
Plotter, various interactive terminals

ARKANSAS

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 700 West Capitol, 2301 Federal Office Building, Little Rock, AR 72201

TELEPHONE:

Commercial: (501) 378-6391 Central Time
FTS: 740-6391

NAWDEX CONTACT: John E. Owen

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation
Geographical Coverage: State of Arkansas
Media in Which Data Stored: Machine readable, Hard copy files,
Published
Types of Media Output: Punched cards, Computer printout, Published
(Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Data 100 Remote Terminal and associated
equipment

CALIFORNIA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 855 Oak Grove Avenue, Menlo Park, CA 94025

TELEPHONE:

Commercial: (415) 323-8111 Pacific Time
FTS: 467-2463

NAWDEX CONTACT: John Beck

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of California (coastal)
Media in Which Data Stored: Published, Computer files
Types of Media Output: Punched cards, Magnetic tape, Computer printout,
Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100 Remote Terminal

COLORADO

ORGANIZATION: Colorado Water Resources Research Institute
ADDRESS: Colorado State University, Fort Collins, CO 80523
TELEPHONE:

Commercial: (303) 491-5371 Mountain Time
NAWDEX CONTACT: Norman A. Evans
AVAILABLE DATA FROM ORGANIZATION:

Geographical Coverage: State of Colorado
MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: WRSIC
DESCRIPTION OF EQUIPMENT USED: Data 100, Model 78 terminal and printer

* * * *

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Building 53, Denver Federal Center, Mail Stop 415, Box 25046
Lakewood, CO 80225

TELEPHONE:
Commercial: (303) 234-3458 Mountain Time
FTS: 234-3458

NAWDEX CONTACT: Harold E. Petsch, Jr.
AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of Colorado
Media in Which Data Stored: Machine readable, Hard copy files,
Microform, Published
Types of Media Output: Punched cards, Magnetic tape, Computer printout,
Published (Printed)
MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Data 100, Model 78
ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY
ORGANIZATION: Daily Values Hydrographs

CONNECTICUT

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Abraham A. Ribicoff Federal Building, 450 Main Street, Room 525,
Hartford, CT 06103

TELEPHONE:
Commercial: (203) 244-2528 Eastern Time
FTS: 244-2528

NAWDEX CONTACT: Lawrence A. Weiss

AVAILABLE DATA FROM ORGANIZATION: Water Resources, Hydrologic Data
Types of Data: Surface Water, Water Quality, Ground Water, Precipitation
Geographical Coverage: State of Connecticut
Media in Which Data Stored: Machine readable, Hard copy files, Published
Types of Media Output: Punched cards, Computer printout, Published
(Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET, WRSIC
DESCRIPTION OF EQUIPMENT USED: Data 100 Terminal with printer, Intertec Super-
brain with Data South Printer, Datagraphix with
T.I. Printer, Tektronix 4052, CPT 8000 word pro-
cessor with communications to Amdahl in Reston.

DELAWARE

(See U.S. Geological Survey Office in Maryland)

FLORIDA

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 325 John Knox Road, Suite F-240, Tallahassee, FL 32303
TELEPHONE:

Commercial: (904) 386-7145 Eastern Time
FTS: 386-7145

NAWDEX CONTACT: Martha E. Thagard

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological

Geographical Coverage: State of Florida

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 70-2 with tape drive, card punch

* * * *

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 7815 Coral Way, Suite 110, Miami, FL 33155
TELEPHONE:

Commercial: (305) 350-5382 Eastern Time
FTS: 350-5382

NAWDEX CONTACT: Ellis Donsky

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: Southern Florida

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Computer Printout, Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET, HISARS,
WRSIC

DESCRIPTION OF EQUIPMENT USED: Data 100 Model 78

FLORIDA--Continued

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 80 North Hughey Avenue, Suite 216, Federal Building, Orlando, FL 32801
TELEPHONE:

Commercial: (305) 420-6191 Eastern Time
FTS: 820-6191

NAWDEX CONTACT: Larry Fayard

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: North and East Florida
Media in Which Data Stored: Machine readable, Hard copy files
Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Microfiche, Published (Printed),
Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET, HISARS,
WR SIC, MIS

DESCRIPTION OF EQUIPMENT USED: WANG Minicomputer, Data 100 batch terminals,
Superbrain Microcomputer

* * * *

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 4710 Eisenhower Boulevard, Suite B-5, Tampa, FL 33614
TELEPHONE:

Commercial: (813) 228-2124 Eastern Time
FTS: 826-2124

NAWDEX CONTACT: G. Lynn Barr

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: West-Central Florida
Media in Which Data Stored: Machine readable, Hard copy files, Published
Types of Media Output: Punched cards, Computer printout, Published
(Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 70-1

GEORGIA

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 6481 Peachtree Industrial Boulevard, Suite B, Doraville, GA 30360
TELEPHONE:

Commercial: (404)-221-4858 Eastern Time
FTS: 242-4858

NAWDEX CONTACT: James L. Pearman

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of Georgia
Media in Which Data Stored: Machine readable, Hard copy files, Published
Types of Media Output: Punched cards, Magnetic disk, Computer
printout, Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 78

HAWAII

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Post Office Box 50166, 300 Ala Moana Boulevard, Honolulu, HI 96850
TELEPHONE:

Commercial: (808) 546-8331 Alaska-Hawaii Time
FTS: 8-(808)-546-8331 (Pacific Time minus 2 hours)

NAWDEX CONTACT: Salwyn S. Chinn

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation
Geographical Coverage: Hawaiian Islands, Trust Territory of the Pacific
Islands, Guam, American Samoa, and Northern
Mariana Islands

Media in Which Data Stored: Machine readable, Published

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Harris computer at Fort Shafter Army Base,
in Honolulu.

IDAHO

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Box 036, Federal Building, 550 West Fort Street, Boise, ID 83724
TELEPHONE:

Commercial: (208) 334-1750 Mountain Time
FTS: 554-1750

NAWDEX CONTACT: Luther C. Kjelstrom

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Idaho

Media in Which Data Stored: Machine readable, Hard copy files,
Published

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Data 100 batch terminal, Tektronix graphics,
CRT terminals, Calcomp plotter

ILLINOIS

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Champaign County Bank Plaza, Fourth Floor, 102 East Main Street,
Urbana, IL 61801

TELEPHONE:

Commercial: (217) 398-5353 Central Time
FTS: 8-(217)-958-5353

NAWDEX CONTACT: G. Wayne Curtis

ILLINOIS--Continued

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Geologic Descriptions

Geographical Coverage: State of Illinois

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Magnetic tape, Magnetic disk, Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Data 100, tape drive card reader and line printer, Superbrain Microcomputer with Datasouth printer, CPT 8000 word processor and printer

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY ORGANIZATION: Various statistical and application programs

INDIANA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 6023 Guion Road, Suite 201, Indianapolis, IN 46254

TELEPHONE:

Commercial: (317) 927-8640

Eastern Time

FTS: 336-8640

NAWDEX CONTACT: E. James Crompton

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Indiana

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, WRSIC

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 70-1, Card reader, Line printer, Card punch

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY ORGANIZATION: Elevations and locations of benchmarks

IOWA

ORGANIZATION: Iowa Water Resources Data System (IWARDS), Iowa Geological Survey

ADDRESS: 123 North Capitol Street, Iowa City, IA 52242

TELEPHONE:

Commercial: (319) 338-1173

Central Time

NAWDEX CONTACT: Richard L. Talcott

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Water Quality, Ground Water, Precipitation

Geographical Coverage: State of Iowa

Media in Which Data Stored: Machine readable

Types of Media Output: Magnetic tape, Computer printout, Graphics

IOWA--Continued

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET
DESCRIPTION OF EQUIPMENT USED: Perkin-Elmer 3220 with HASP Emulator
ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY
ORGANIZATION: Landsat Image Processing

* * * *

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 269, Federal Building, 400 South Clinton, Box 1230,
Iowa City, IA 52240

TELEPHONE:

Commercial: (319) 337-4191 Central Time
FTS: 863-6521

NAWDEX CONTACT: Daniel J. Gockel

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of Iowa
Media in Which Data Stored: Machine readable, Hard copy files,
Published

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Multi-level work station with a 600 LPM
printer. Equipment communicates with
the Amdahl computer in Reston, Va.,
and at the Univ. of Iowa, Iowa City, Iowa.

KANSAS

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 1950 Avenue A, Campus West, University of Kansas,
Lawrence, KS 66045

TELEPHONE:

Commercial: (913) 864-4321 Central Time
FTS: 752-2300

NAWDEX CONTACT: Charlene Merry

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of Kansas
Media in Which Data Stored: Machine readable, Hard copy files,
Published

Types of Media Output: Magnetic tape, Computer printout

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET
DESCRIPTION OF EQUIPMENT USED: HARRIS 5125 Minicomputer System

KENTUCKY

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: Room 572, Federal Building, 600 Federal Place,
Louisville, KY 40202

TELEPHONE:

Commercial: (502) 582-5241

Eastern Time

FTS: 352-5241

NAWDEX CONTACT: Jay Kiesler

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Kentucky

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 70, WANG 2200

LOUISIANA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: P.O. Box 66492, 6554 Florida Boulevard, Baton Rouge, LA 70896

TELEPHONE:

Commercial: (504) 389-0281

Central Time

FTS: 687-0281

NAWDEX CONTACT: Max Forbes or Christie Godwin

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, *Precipitation,
*Meteorological (*in office records of NOAA),
Geological

Geographical Coverage: State of Louisiana

Media in Which Data Stored: Machine readable as retrieved from WATSTORE,
Hard copy files, Microform (some), Published,

Types of Media Output: Magnetic tape (from Reston), Magnetic disk,
Computer printout, Published (Printed),
Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, WRSIC

DESCRIPTION OF EQUIPMENT USED: DATA 100, Model 78 terminal, Model 74 keyboard

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: Incidental information requests

MAINE

(See U.S. Geological Survey Office in Massachusetts)

MARYLAND

ORGANIZATION: M/A-Com Sigma Data, Inc.

ADDRESS: 5515 Security Lane, Rockville, MD 20852

TELEPHONE:

Commercial: (301) 984-3636

Eastern Time

NAWDEX CONTACT: Carol Graves

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological, Environmental Health, Air Quality

Geographical Coverage: United States; by monitoring site, county, state,
or hydrologic units

Media in Which Data Stored: Machine readable

Types of Media Output: Magnetic tape, Magnetic disk, Computer printout,
Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET, IDB (CEQ),
SAROAD (EPA), WDROP (EPA)

DESCRIPTION OF EQUIPMENT USED: Mainframe-IBM, Boeing Computer Services.

Almost any type of computer terminal may be
used to operate our software packages.

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: M/A-Com Sigma Data personnel provide computerized data storage,
retrieval and analysis systems for our customers. These
systems are designed for the non-computer-oriented user. The
user may select from a wide variety of data, restrict the data
in any way by application of Boolean logic, and analyze it
interactively. Our analytical procedures include data manipu-
lation, statistical, and graphic analyses. We also provide
a wide range of User Support functions, including data acquisi-
tion, documentation, problem solving, and analytical consulta-
tion and operations.

* * * *

ORGANIZATION: General Software Corporation (GSC)

ADDRESS: Metro-Plex, 8401 Corporate Drive, Landover, MD 20785

TELEPHONE:

Commercial: (301) 459-9494

Eastern Time

FTS: 202-459-9494

NAWDEX CONTACT: J. Stewart McKenzie

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Water Quality

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: GSC provides professional consulting services and soft-
ware development in the areas of applied systems,
environmental data handling, analysis and modeling,
computer graphics and cartography, and geographic
information systems.

MARYLAND--Continued

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 208 Carroll Building, 8600 LaSalle Road, Towson, MD 21204
TELEPHONE:

Commercial: (301) 828-1535 Eastern Time
FTS: 8-(922)-7872, 7849

NAWDEX CONTACT: Robert W. James, Jr. or Myron N. Lys

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, *Precipitation
*Meteorological (*NOAA Publications)

Geographical Coverage: Maryland, Delaware, District of Columbia

Media in Which Data Stored: Hard copy files, Microform, Published

Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Microfiche, Published (Printed),
Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100, Tektronix 4051, 4052

MASSACHUSETTS

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 150 Causeway Street, Suite 1001, Boston, MA 02114
TELEPHONE:

Commercial: (617) 223-2822 Eastern Time
FTS: 223-2822

NAWDEX CONTACT: James D. Linney

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation

Geographical Coverage: State of Massachusetts

Media in Which Data Stored: Hard copy files, Microform, Published

Types of Media Output: Computer printout, Microfiche, Published
(Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 70-1

MICHIGAN

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 6520 Mercantile Way, Suite 5, Lansing, MI 48910
TELEPHONE:

Commercial: (517) 377-1608 Eastern Time
FTS: 374-1608

NAWDEX CONTACT: Gary C. Huffman or John B. Miller

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Michigan

Media in Which Data Stored: Machine readable, Published, Microfiche

Types of Media Output: Computer Printout, Published (Printed)

MICHIGAN--Continued

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, WRSIC
DESCRIPTION OF EQUIPMENT USED: Control Data 100 Terminal, Intertec
Superbrain Computer
ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY
ORGANIZATION: Statistical summaries of surface-water data

MINNESOTA

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 702 Post Office Building, St. Paul, MN 55101
TELEPHONE:

Commercial: (612) 725-7841 Central Time
FTS: 725-7841

NAWDEX CONTACT: James Jacques

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Minnesota

Media in Which Data Stored: Hard copy files

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET
DESCRIPTION OF EQUIPMENT USED: Datapoint 1134 with a 300 LPM Printer

MISSISSIPPI

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Suite 710, Federal Office Building, 100 West Capitol Street,
Jackson, MS 39269

TELEPHONE:

Commercial: (601) 960-4600 Central Time
FTS: 490-4600

NAWDEX CONTACT: Fred Morris, III

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Mississippi

Media in Which Data Stored: Machine readable, Hard copy files,
Microform, Published

Types of Media Output: Magnetic disk, Computer printout, Published
(Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Datapoint 1134, Houston ComPlot DP-8

MISSOURI

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 1400 Independence Road, Mail Stop 200, Rolla, MO 65401
TELEPHONE:

Commercial: (314) 341-0824 Central Time
FTS: 277-0824

NAWDEX CONTACT: Wayne Berkas

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of Missouri
Media in Which Data Stored: Machine readable, Hard copy files,
Published

Types of Media Output: Punched cards, Magnetic tape, Computer
printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Datapoint 5500

MONTANA

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Federal Building, Drawer 10076, 301 South Park Avenue,
Helena, MT 59626

TELEPHONE:

Commercial: (406) 449-5263 Mountain Time
FTS: 585-5263

NAWDEX CONTACT: Jay H. Diamond

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation
Geographical Coverage: State of Montana and some streamflow sites in the
Canadian Provinces of Alberta and Saskatchewan.

Media in Which Data Stored: Hard copy files, Published

Types of Media Output: Magnetic disk, Computer printout, Published
(Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Data 100, Model 70-1

NEBRASKA

ORGANIZATION: Nebraska Natural Resources Commission
ADDRESS: 301 Centennial Mall South, P.O. Box 94876, Lincoln, NE 68509
TELEPHONE:

Commercial: (402) 471-2081 Central Time

NAWDEX CONTACT: Mahendra K. Bansal, Head, Data Bank Section, Natural Resources
Information System

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological (climatological), Water Rights, Well
Registration, Center Pivots, Agricultural Crops,
Demographic, Dams Inventory, and Limited Soil Surveys and
Interpretations

NEBRASKA--Continued

Geographical Coverage: State of Nebraska
Media in Which Data Stored: Machine readable, Hard copy files, Published
Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Published (Printed), Graphics
MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: WATSTORE, STORET, HISARS, Nebraska
Natural Resources Information
System (NNRIS)
DESCRIPTION OF EQUIPMENT USED: Data communications stations IBM 3777/Model 1
and IBM 3741/Model 2; printers IBM 3203
and IBM 3715; and dual data entry station
IBM 3742 linked to the University of Nebraska,
Lincoln Computing Facility.

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY
ORGANIZATION: Direct data access facility available to all users. Hardware
compatibility is required to communicate with IBM 370/158
Computer System of the University of Nebraska, Lincoln Com-
puting Facility. Copies of the Users Manual, and Data Access
Manual are available on request.

* * * *

ORGANIZATION: HDR Systems, Inc.
ADDRESS: 8404 Indian Hills Drive, Omaha, NE 68114
TELEPHONE:
Commercial: (402) 399-1400 Central Time
NAWDEX CONTACT: Robert P. Rohrbough

AVAILABLE DATA FROM ORGANIZATION:
Geographical Coverage: Nationwide, International
Media in Which Data Stored: Machine readable
Types of Media Output: Magnetic tape, Computer printout, Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX
DESCRIPTION OF EQUIPMENT USED: CDC Cyber 730

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY
ORGANIZATION: HDR Systems provides timesharing services to our clients
through the CDC Cyber 730. We utilize both Tymnet and WATS
for our communications access. The Cyber is 198K - 60 bit
words, 2.5+ billion characters of disk storage with 14
peripheral processors. The application library, available
to users, contains: Engineering, Financial Planning/Model-
ing, Plotting, Research/Statistical, Data Base Management,
Graphics, and Business.

HCMAPPER is specifically designed for the map-plotting of
data stored in the Master Water Data Index (MWDI). Subsets
of data may be retrieved from the MWDI using the NAWDEX
generalized retrieval system and transferred to HDR Systems,
Inc. for plotting. The NAWDEX Program Office will assist
users in this transfer process until automated transfer
procedures can be established for this purpose. Also,
for those users whose needs are such that direct access
to HCMAPPER is not practical or desired, HDR SYSTEMS,
Inc. will produce maps as a product service.

NEBRASKA--Continued

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 406, Federal Building & U.S. Courthouse, 100 Centennial Mall
North, Lincoln, NE 68508

TELEPHONE:

Commercial: (402) 471-5082 Central Time
FTS: 541-5082

NAWDEX CONTACT: Donald E. Schild

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Nebraska

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Computer printout,
Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, Local System

DESCRIPTION OF EQUIPMENT USED: Datapoint 1134, Card reader (300 cpm), NUMONICS
1224 Digitizer, Calcomp 1037 plotter, 300 LPM
printer, Superbrain QD (will be used as termi-
nal), Datagraphix 132B, IBM Key punch 129-3, and
IBM 3742 key to disk.

NEVADA

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 227, Federal Building, 705 North Plaza Street,
Carson City, NV 89701

TELEPHONE:

Commercial: (702) 882-1388 Pacific Time
FTS: 470-5911 (ask operator for 882-1388, 1389)

NAWDEX CONTACT: Howard R. Frisbie

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Nevada

Media in Which Data Stored: Machine readable, Published

Types of Media Output: Magnetic disk (floppy), Computer printout,
Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Datapoint 1800

NEW HAMPSHIRE

(See U.S. Geological Survey Office in Massachusetts)

NEW JERSEY

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 430, Federal Building, 402 East State Street, Trenton, NJ 08608
TELEPHONE:
Commercial: (609) 989-2162 Eastern Time
FTS: 483-2162

NAWDEX CONTACT: Brian D. Gillespie

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: State of New Jersey
Media in Which Data Stored: Machine readable, Hard copy files,
Microform, Published, Computer Disk Files
Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Microfiche, Published
(Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, WRSIC

DESCRIPTION OF EQUIPMENT USED: DEC PDP 1134 with RSX-11M Operating
System, WANG VP System

NEW MEXICO

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 720, Western Bank Building, 505 Marquette, NW,
Albuquerque, NM 87125

TELEPHONE:
Commercial: (505) 766-2011 Mountain Time
FTS: 474-2011

NAWDEX CONTACT: Linda Beal

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological
Geographical Coverage: New Mexico and surrounding States
Media in Which Data Stored: Machine readable, Hard copy files,
Published
Types of Media Output: Magnetic tape, Computer printout, Published
(Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Harris Minicomputer with tape drive -
no card punch.

NEW YORK

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: P.O. Box 1350, Albany, NY 12201
TELEPHONE:

Commercial: (518) 472-3107 Eastern Time
FTS: 562-3107

NAWDEX CONTACT: Benjamin B. Eissler

NEW YORK--Continued

AVAILABLE DATA FOR ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of New York

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100 Remote Job Entry Terminal

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ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 5 Aerial Way, Syosset, NY 11791

TELEPHONE:

Commercial: (516) 938-8830 Eastern Time

FTS: 8-(516)-938-8830

NAWDEX CONTACT: George W. Hawkins

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation

Geographical Coverage: Long Island

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100 (Model 70-2), Data General Nova 1220

NORTH CAROLINA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: P.O. Box 2857, Raleigh, NC 27602

TELEPHONE:

Commercial: (919) 755-4510 Eastern Time

FTS: 672-4510

NAWDEX CONTACT: Joseph S. Riggsbee

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation
(limited)

Geographical Coverage: State of North Carolina

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, USGS NC District
Computer File

DESCRIPTION OF EQUIPMENT USED: Batch and Interactive Terminals, WANG
Minicomputer

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: Flood-Prone Maps

NORTH DAKOTA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 821 East Interstate Avenue, Bismarck, ND 58501

TELEPHONE:

Commercial: (701) 255-4011 Central Time
FTS: 783-4604

NAWDEX CONTACT: Russell E. Harkness

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of North Dakota

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Computer Printout, Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Datapoint 1134

OHIO

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 975 West Third Avenue, Columbus, OH 43212

TELEPHONE:

Commercial: (614) 469-5553 FTS: 943-5553

NAWDEX CONTACT: Ann E. Arnett

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
GWSI, Landsat Browse File

Geographical Coverage: State of Ohio

Media in Which Data Stored: Machine readable, Hard copy files, Microform,
Published

Types of Media Output: Computer printout, Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 70-1

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: Ohio Flood-Prone Area Maps

OKLAHOMA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: Room 621, Old Post Office Building, 215 Dean A. McGee Avenue,
Oklahoma City, OK 73102

TELEPHONE:

Commercial: (405) 231-4256 Central Time
FTS: 736-4256

NAWDEX CONTACT: Lionel D. Mize

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation
(Misc.)

Geographical Coverage: State of Oklahoma

Media in Which Data Stored: Hard copy files, Published

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET, WRSIC

DESCRIPTION OF EQUIPMENT USED: Harris Terminal and Printer, HP9845B,
Datagraphix 132B, Superbrain QD

OREGON

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 847 NE 19th Avenue, Suite 300, Portland, OR 97232

TELEPHONE:

Commercial: (503) 231-2020 Pacific Time
FTS: 429-2020

NAWDEX CONTACT: Lawrence E. Hubbard

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Oregon

Media in Which Data Stored: Machine readable, Hard copy files,
Microform, Published

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: DEC 1134

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ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: c/o Oregon Water Resources Department, 555 13th Street, NE,
Salem, OR 97310

TELEPHONE:

Commercial: (503) 378-3671 Pacific Time
FTS: 8-(503)-378-3671

NAWDEX CONTACT: David L. Weiss

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Precipitation

Geographical Coverage: State of Oregon

Media in Which Data Stored: Hard copy files, Published

Types of Media Output: Computer printout, Published (Printed)

DESCRIPTION OF EQUIPMENT USED: Altos V-80 Micro Computer, Inte-color
terminal and printer, Tektronix plotter,
Tektronix terminal and Diablo Printer

PENNSYLVANIA

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: P.O. Box 1107, 4th Floor, Federal Building, 228 Walnut Street,
Harrisburg, PA 17108

TELEPHONE:

Commercial (717) 782-3851 Eastern Time
FTS: 590-3851

NAWDEX CONTACT: Robert Helm

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Flood-prone
Area Maps

Geographical Coverage: State of Pennsylvania

Media in Which Data Stored: Machine readable, Hard copy files, Published

PENNSYLVANIA--Continued

Types of Media Output: Magnetic tape, Computer printout, Published
(Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Datapoint 1800, Printer, Card reader
ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY
ORGANIZATION: Flood-Prone Area Maps

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ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Great Valley Corporate Center, 35 Great Valley Parkway,
Malvern, PA 19355

TELEPHONE:

Commercial: (215) 647-9008 Eastern Time
FTS: 8-(215)-647-9008

NAWDEX CONTACT: Deloris W. Speight

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation
Geographical Coverage: Delaware River Basin
Media in Which Data Stored: Machine readable, Hard copy files
Published

Types of Media Output: Punch cards, Computer printout, Published
(Printed), Diskette

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: CPT 8000, Data 100, Model 70-1, T.I. Silent 700

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ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 2204, Moorhead Federal Building, 1000 Liberty Avenue,
Pittsburgh, PA 15222

TELEPHONE:

Commercial: (412) 644-2864 Eastern Time
FTS: 722-2864

NAWDEX CONTACT: Alexander King

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water
Geographical Coverage: Western Pennsylvania
Media in Which Data Stored: Machine readable, Hard copy files, Published
Types of Media Output: Punched cards, Computer printout, Published
(Printed), CPT 8000 - 8" floppy disk

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Data 100 Batch Terminal, Printer and Card
Punch; CPT 8000 - Word Processor, TSO Terminal,
and Printer.

PUERTO RICO (includes Virgin Islands)

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: GPO Box 4424, San Juan, PR 00936

TELEPHONE:

Commercial: (809) 783-4660 Atlantic Time

FTS: 8-(809)-753-4414

NAWDEX CONTACT: Ferdinand Quinones, District Chief

Hector Colon-Ramos, Project Contact

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: Puerto Rico and U.S. Virgin Islands

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Computer printout,
Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED:

DESCRIPTION OF EQUIPMENT USED: Hewlett Packard 9830B Remote Entry Job Terminal

RHODE ISLAND

(See U.S. Geological Survey Office in Massachusetts)

SOUTH CAROLINA

ORGANIZATION: South Carolina Water Resources Commission

ADDRESS: P.O. Box 50506, 1001 Harden Street, Suite 250, Columbia, SC 29250

TELEPHONE:

Commercial: (303) 758-2514 Eastern Time

NAWDEX CONTACT: Joe Harrigan

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Water Quality, Ground Water, Water Use Data

Geographical Coverage: State of South Carolina

Media in Which Data Stored: Hard copy files, Published

Types of Media Output: Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: HISARS (available in 2 years)

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ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: Strom Thurmond Building, Suite 658, 1835 Assembly Street,
Columbia, SC 29201

TELEPHONE:

Commercial: (803) 765-5966 Eastern Time

FTS: 677-5966

NAWDEX CONTACT: C. Scott Bennett

AVAILABLE DATA FROM ORGANIZATION:

Type of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of South Carolina

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: WATSTORE, NAWDEX

DESCRIPTION OF EQUIPMENT USED: Data 100 Terminal

SOUTH DAKOTA

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 317, Federal Building, 200 4th Street, SW, Huron, SD 57350
TELEPHONE:

Commercial: (605) 352-8651, ext. 258 Eastern Time
FTS: 782-2258

NAWDEX CONTACT: John R. Little

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of South Dakota

Media in Which Data Stored: Machine readable, Hard copy files, Microform
Published

Types of Media Output: Computer printout, Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Datapoint 1500

TENNESSEE

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: A-413 Federal Building, U.S. Courthouse, Nashville, TN 37203
TELEPHONE:

Commercial: (615) 251-5424 Central Time
FTS: 852-5424

NAWDEX CONTACT: Jerry F. Lowery

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation

Geographical Coverage: State of Tennessee

Media in Which Data Stored: Machine readable, Hard copy files, Microform,
Published

Types of Media Output: Computer printout, Pulished (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET, WRSIC

DESCRIPTION OF EQUIPMENT USED: Data 100 I/O, WANG WP, WANG 2200, Datagraphix,
TI Silent 700

TEXAS

ORGANIZATION: Texas Natural Resources Information System
ADDRESS: P.O. Box 13087, Austin, TX 78711
TELEPHONE:

Commercial: (512) 475-3321 Central Time

NAWDEX CONTACT: John Wilson

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological

Geographical Coverage: State of Texas

Media in Which Data Stored: Machine readable, Hard copy files, Microform,
Published

Types of Media Output: Magnetic tape, Computer printout, Microfiche,
Published (Printed), Graphics

TEXAS--Continued

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET, TNRS,
WRSIC
DESCRIPTION OF EQUIPMENT USED: Univac 1100/62 computer, Disk, 6250 BPI tapes

UTAH

ORGANIZATION: Utah Division of Water Rights
ADDRESS: Room 231, 1636 West North Temple, Salt Lake City, UT 84116
TELEPHONE:

Commercial: (801) 533-6071 Mountain Time
NAWDEX CONTACT: James Riley
AVAILABLE DATA FROM ORGANIZATION:
Types of Data: Surface Water, Ground Water, Water Rights, Well Logs
Geographical Coverage: State of Utah
Media in Which Data Stored: Hard copy files, Microform, Published
Types of Media Output: Magnetic tape, Magnetic disk, Computer printout,
Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE
DESCRIPTION OF EQUIPMENT USED: Hewlett-Packard 3000 Series 44 computer

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ORGANIZATION: Center for Water Resources Research
ADDRESS: Utah State University, UMC-82, Logan, UT 84322
TELEPHONE:

Commercial: (801) 750-1000 Mountain Time
FTS: 8-(801)-750-1000
NAWDEX CONTACT: Christopher J. Duffy or Mardyne Matthews
AVAILABLE DATA FROM ORGANIZATION:
Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological
Geographical Coverage: State of Utah (Northern)
Media in Which Data Stored: Machine readable, Hard copy files, Published
Types of Media Output: Magnetic tape, Magnetic disk, Computer printout,
Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: STORET
DESCRIPTION OF EQUIPMENT USED: Vax, Burroughs 6700

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ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room 1016, Administration Building, 1745 West 1700 South,
Salt Lake City, UT 84104

TELEPHONE:
Commercial: (801) 524-5654 Mountain Time
FTS: 588-5654
NAWDEX CONTACT: Scott D. Bartholoma

UTAH--Continued

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Utah

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Computer printout,
Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Data 100 (Model 76), tape drive, card punch,
and Calcomp 1039 plotter

VERMONT

(See U.S. Geological Survey Office in Massachusetts)

VIRGINIA

ORGANIZATION: Virginia Water Resources Research Center

ADDRESS: Virginia Polytechnic Institute and State University,
617 North Main Street, Blacksburg, VA 24060

TELEPHONE:

Commercial: (703) 961-5624 Eastern Time

NAWDEX CONTACT: T. W. Johnson

AVAILABLE DATA FROM ORGANIZATION: Virginia Streamflow, Climatic, and Peakflow

Types of Data: Surface Water, Precipitation, Meteorological

Geographical Coverage: State of Virginia with some coverage in
North Carolina, District of Columbia, Maryland,
and Pennsylvania

Media in Which Data Stored: Machine readable

Types of Media Output: Punched cards, Magnetic tape, Magnetic disk,
Computer printout

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: HISARS, WRSIC

DESCRIPTION OF EQUIPMENT USED: HP2621P Terminal, IBM 360/370

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ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: 200 West Grace Street, Room 304, Richmond, VA 23220

TELEPHONE:

Commercial: (804) 771-2427 Eastern Time

FTS: 925-2427

NAWDEX CONTACT: Edwards H. Nuckels

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Virginia

Media in Which Data Stored: Machine readable, Hard copy files,
Published

Types of Media Output: Punched cards, Magnetic tape, Computer printout

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Batch Terminal - Data 100, Model 78-111

VIRGINIA--Continued

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: National Water Data Exchange, 421 National Center, Reston, VA 22092
TELEPHONE:

Commercial: (703) 860-6031 Eastern Time
FTS: 928-6031

NAWDEX CONTACT: Marian Guckert

AVAILABLE DATA FROM ORGANIZATION: Index information about the availability of surface water, water quality, ground water, meteorological/precipitation data, sediment studies, water use studies, areal investigations, and other water-resources investigations and related data.

Geographical Coverage: International

Media in Which Data Stored: Machine readable, Hard copy files, Microform, Published, Ad hoc computer reports

Types of Media Output: Punched cards, Magnetic tape, Computer printed, Microfiche, Published (Printed), Graphics, Statistical analysis, Plots

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: AMDAHL 470 V/7 computer and associated hardware

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: All NAWDEX documents, direct access by users to the NAWDEX, WATSTORE, and STORET data bases, Data Search Assistance, and specific Information products: Water Data Sources Directory, Summary of Indexed Water Data, Catalog and Indexes of Water-Data Acquisition Activities.

WASHINGTON

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Suite 600, 1 Washington Plaza, 1201 Pacific Avenue, Tacoma, WA 98402
TELEPHONE:

Commercial: (206) 593-6510 Pacific Time
FTS: 390-6510

NAWDEX CONTACT: J. R. Williams

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Washington

Media in Which Data Stored: Hard copy files, Published

Types of Media Output: Punched cards, Magnetic tape, Computer printout, Published (Printed)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100, Model 78

WEST VIRGINIA

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: 3416 Federal Building and U.S. Courthouse, 500 Quarrier Street, East,
Charleston, WV 25301

TELEPHONE:

Commercial: (304) 343-6181 ext. 311 Eastern Time
FTS: 924-1311

NAWDEX CONTACT: Kay Cooper

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological

Geographical Coverage: State of West Virginia

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: *Punched cards, *Magnetic tape, Computer printout,
Published (Printed) (*Shipped from Reston Computer
Center)

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE, STORET

DESCRIPTION OF EQUIPMENT USED: Data 100 Series 70-1 card reader/printer,
Mitron Model MPTR-16, IBM 129 card data
recorder

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY
ORGANIZATION: Programming Assistance, Data Base Technical Assistance

WISCONSIN

ORGANIZATION: U.S. Geological Survey, Water Resources Division
ADDRESS: Room B-113, 1815 University Avenue, Madison, WI 53706

TELEPHONE:

Commercial: (608) 262-2488 Central Time
FTS: 262-2488

NAWDEX CONTACT: Robert Bodoh

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Wisconsin

Media in Which Data Stored: Machine readable, Hard copy files, Published

Types of Media Output: Magnetic tape, Computer printout, Published
(Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Data 100 (Model 78), Calcomp 1039 Plotter

WYOMING

ORGANIZATION: Water Resources Research Institute

ADDRESS: Wyoming University, P.O. Box 3067, University Station,
Laramie, WY 82071

TELEPHONE:

Commercial: (307) 766-2143 Mountain Time
FTS: 328-1110

NAWDEX CONTACT: Barbara Hatley

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water, Precipitation,
Meteorological

Geographical Coverage: State of Wyoming

Media in Which Data Output Stored: Machine readable

Types of Media Output: Magnetic Tape, Computer Printout, Graphics

DESCRIPTION OF EQUIPMENT USED: Cybers 760 and 730

* * * *

ORGANIZATION: U.S. Geological Survey, Water Resources Division

ADDRESS: P.O. Box 1125, J. C. O'Mahoney Federal Center, Room 4007,
Cheyenne, WY 82003

TELEPHONE:

Commercial: (307) 772-2153 Mountain Time
FTS: 772-2153

NAWDEX CONTACT: Ernest S. Denison

AVAILABLE DATA FROM ORGANIZATION:

Types of Data: Surface Water, Water Quality, Ground Water

Geographical Coverage: State of Wyoming

Media in Which Data Stored: Hard copy files

Types of Media Output: Magnetic tape, Magnetic disk, Computer printout,
Published (Printed), Graphics

MAJOR COMPUTERIZED DATA SYSTEM(S) ACCESSED: NAWDEX, WATSTORE

DESCRIPTION OF EQUIPMENT USED: Datapoint Models 1174 and 4530, 5500
Processors, Vector Graphic OMZ

ADDITIONAL COMPUTER SERVICES OR OTHER INFORMATION PRODUCTS PROVIDED BY

ORGANIZATION: Daily Values Tables, Statistical Summaries, Hydrographs

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS

The following acronyms and abbreviations are used throughout this report to avoid unnecessary repetition in listing the data bases accessed by the various NAWDEX Assistance Centers, and in referring to the agencies who maintain these data bases.

CEQ - [President's] Council on Environmental Quality.

GWSI - Ground Water Site Inventory File. Maintained by U.S. Geological Survey, Water Resources Division.

HISARS - Hydrologic Information Storage and Retrieval System. A program for storing and retrieving streamflow and peak flow data, and weather information (precipitation).

IDB - Integrated Data Base. Maintained by Council on Environmental Quality.

LANDSAT - Land Satellite Data.

MWDI - Master Water Data Index. An index of water data sites maintained by the National Water Data Exchange, U.S. Geological Survey.

MIS - Management Information System. Data base maintained by the Operations Section, Water Resources Division, U.S. Geological Survey.

NAWDEX - National Water Data Exchange.

NNRIS - Nebraska Natural Resources Information System. A computerized information system (Data Bank) maintained by the Nebraska Natural Resources Commission.

NOAA - National Oceanic and Atmospheric Administration.

SAROAD - Storage and Retrieval of Aerometric Data. A U.S. Environmental Protection Agency computerized data base.

STORET - Storage and Retrieval System. A computerized water quality data base maintained by the U.S. Environmental Protection Agency.

TNRIS - Texas Natural Resources Information System. A centralized computer facility which handles storage, retrieval, processing, analysis, and presentation of natural resources data and information for the State of Texas.

USGS - U.S. Geological Survey.

WATS - Wide-area Telecommunications Service (American Telephone and Telegraph Company contract billing system).

WATSTORE - National Water Data Storage and Retrieval System. A large-scale computer system developed by the U.S. Geological Survey for the storage and retrieval of water data.

WDROP - Water Drop. A U.S. Environmental Protection Agency computerized data files.

WDSO - Water Data Sources Directory. A computerized data base maintained by the National Water Data Exchange which lists organizations which are sources of water data and water-related data.

WRSIC - Water Resources Scientific Information Center, Office of Water Research and Technology. This office produces the Selected Water Resources Abstracts journal.