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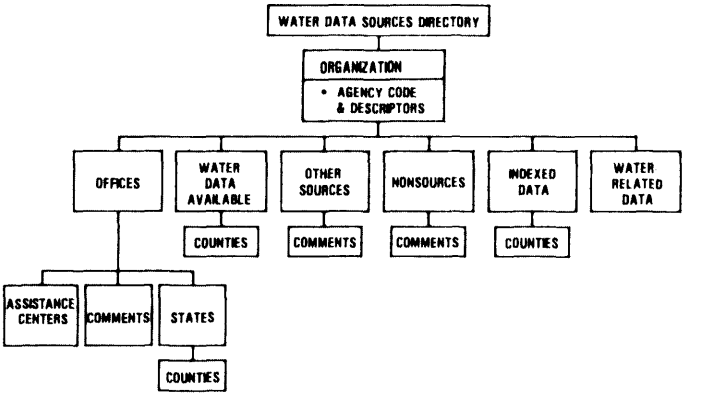
# DEFINITIONS OF COMPONENTS OF THE WATER DATA SOURCES DIRECTORY MAINTAINED BY THE NATIONAL WATER DATA EXCHANGE




U.S. GEOLOGICAL SURVEY
Open-File Report 79—1541

# DEFINITIONS OF COMPONENTS OF THE WATER DATA SOURCES DIRECTORY MAINTAINED BY THE NATIONAL WATER DATA EXCHANGE

By WILLIAM A. KNECHT and MELVIN D. EDWARDS

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UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

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

# PREFACE

The National Water Data Exchange (NAWDEX) is an interagency program to facilitate the exchange of water data and to promote the standardization of water-data-handling procedures. Participants in the NAWDEX program consist of Federal, State, and local governmental organizations, and private organizations that collect and use water data.

NAWDEX maintains a "Water Data Sources Directory" which is a computerized index of water resources organizations. The Directory provides answers to: What kinds of water data are available? who has the data? and where can the data be obtained?

This document defines the data components contained in the Water Data Sources Directory (WDSD); it is referred to as the Dictionary. Its purpose is to describe, in detail, the information in the WDSD.

Inquiries related to the Dictionary may be directed to:

Program Manager
National Water Data Exchange
U.S. Geological Survey
421 National Center
Reston, Virginia 22092

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# DEFINITIONS OF COMPONENTS OF THE WATER DATA SOURCES DIRECTORY MAINTAINED BY THE NATIONAL WATER DATA EXCHANGE

By

William A. Knecht (CACI, Inc.) and Melvin D. Edwards (USGS)

## INTRODUCTION

The Water Data Sources Directory (WDSD) is a computerized data base developed and maintained by the National Water Data Exchange (NAWDEX) Program Office which contains information about organizations that collect, store, and disseminate water data and water-related data. This includes: the type of each organization; the major orientation of water-data activities conducted by each organization; the names, addresses, and telephone numbers of offices within each organization from which water data may be obtained; the types of data held by each organization and the geographic locations within which these data have been collected; and alternate sources of an organization's data. This document contains a definition and description of each component of the WDSD data base. For simplicity, it is referred to as a data dictionary. It is intended, primarily, to assist those persons using the WDSD in understanding and clarifying information obtained from the data base.

The WDSD is designed to be used independently, or in conjuction with, the Master Water Data Index (MWDI). The MWDI is also a computerized data base developed and maintained by the NAWDEX Program Office. It contains detailed information about sites at which water data are collected: identification and location of a site; the type of site; the organization operating the site; the current status of data collection at the site; the period of record available for the site; the major surface-water or ground-water parameters and water-quality parameters measured at the site and the frequency of measurement of these parameters; and the media in which data are available for the site. A few components are common in both data bases, thereby allowing retrieved information to be cross-referenced between them. For example: a retrieval may be made from the MWDI to identify all sites within a geographic area of interest for which water quality data are available. A retrieval can, then, be made from the WDSD to determine the addresses from which the data may be obtained from organizations operating the identified sites. The hierarchical structure and content of the MWDI are shown in figure 1. A complete description of the MWDI can be found in the publication entitled "Definitions of Components of the Master Water Data Index Maintained by the National Water Data Exchange."

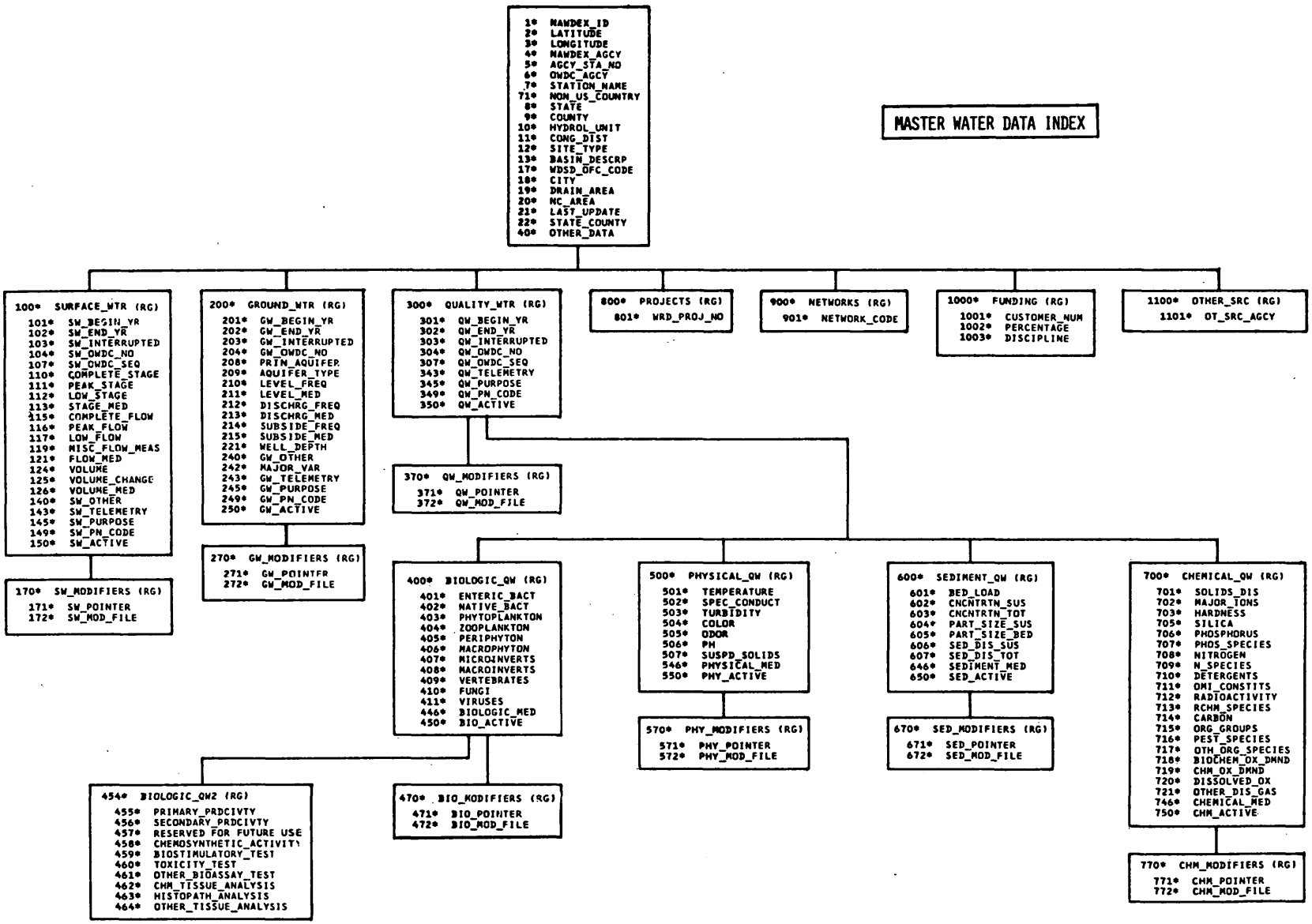


Figure 1. Hierarchical structure and content of the Master Water Data Index data base.

## OVERVIEW OF THE WATER DATA SOURCES DIRECTORY

### Data Base Description

The Water Data Sources Directory (WDSD) contains the following general categories of information:

Organization Description
- Unique Identifier
- Name of Organization
- NAWDEX Membership
- Type of Organization
- Orientation of the Organization's Activities

Office Description
- Unique Identifier
- Name of Office
- Address
- Telephone Number
- Areal Coverage of Data
- Media Used for Data Storage
- State(s) and Counties Having Data
- General Comments
- Assistance Center Information

Data Holdings of the Organization
- Country, State, and Counties for Which Data are Available
- Types of Data Available

Alternate Sources of the Organization's Data
- Name of the Alternate Source
- Address
- Types of Data Available
- Media Used for Data Storage
- General Comments

Information about Nonsource Offices (Administrative Use Only)

Data Indexed in the MWDI (Administrative Use Only)

Water-Related Data Holdings of the Organization
- Types of Data Available
- Period of Record
- Number of Sites or Observations
- Geographic Area Covered
- Frequency of Measurement
- Media Used for Data Storage
- Other Organizations That are a Source of the Data

As the NAWDEX program progresses, additional categories of data, or additional data items, will be added to the WDSD. Future editions of this Dictionary will reflect any additions or changes to the WDSD.

## Data Base Structure

The WDSD data base is managed and maintained by the SYSTEM 2000 generalized Data Base Management System. The data in a SYSTEM 2000 data base are organized into a hierarchical structure, as shown in figure 2. All of the data about a single organization comprises a logical entry in the data base. Each organization, therefore, is a single separate logical entry in the WDSD. Individual pieces of information, such as the name of an organization or the address of an office, are known as data components; logically related data elements are grouped into blocks called repeating groups. A logical entry, therefore, is comprised of one or more repeating groups, each of which is comprised of one or more data components.

A fundamental aspect of a repeating group is that the data it describes can occur once, many times, or not at all. For example, office information is stored in the OFFICE repeating group. Because an organization may have many offices, the OFFICE repeating group may occur many times, once for each office of the organization. Conversely, if there are no alternate sources of an organization's data, there will be no occurence of the OTHER_SOURCE repeating group for the organization.

All components of a SYSTEM 2000 data base have a unique name and number (unique within the data base). Figure 2 illustrates the number and name of every component and repeating group in the WDSD. An asterisk separates each number from its corresponding name. Data components are organized by their respective repeating groups, and each box in figure 2 represents a repeating group, with its number and name at the top of the box.

## HOW TO USE THIS DOCUMENT

This document contains a detailed explanation of each Water Data Sources Directory (WDSD) repeating group and data component. It is organized in the same order as the WDSD data base, with descriptions of data components belonging to the same repeating group being located together. Each page in this document describes one repeating group or data component. A user searching for the description of a particular data component should use figure 2 to determine its repeating group, then find the page number of that repeating group in the Table of Contents. The description of the data component follows the description of the repeating group.

At the top of each page, certain attributes of the data component defined are listed to provide information generally needed only by data processing personnel for software development. These include IN RG, DATA TYPE, PICTURE, and LARGEST VALUE. A full definition of each of these attributes is found below. For the majority of users it will only be necessary to consider these attributes when producing a report or formulating a complex retrieval using the SYSTEM 2000 Immediate Access retrieval language. In other words, the majority of users need not be concerned with these attributes.

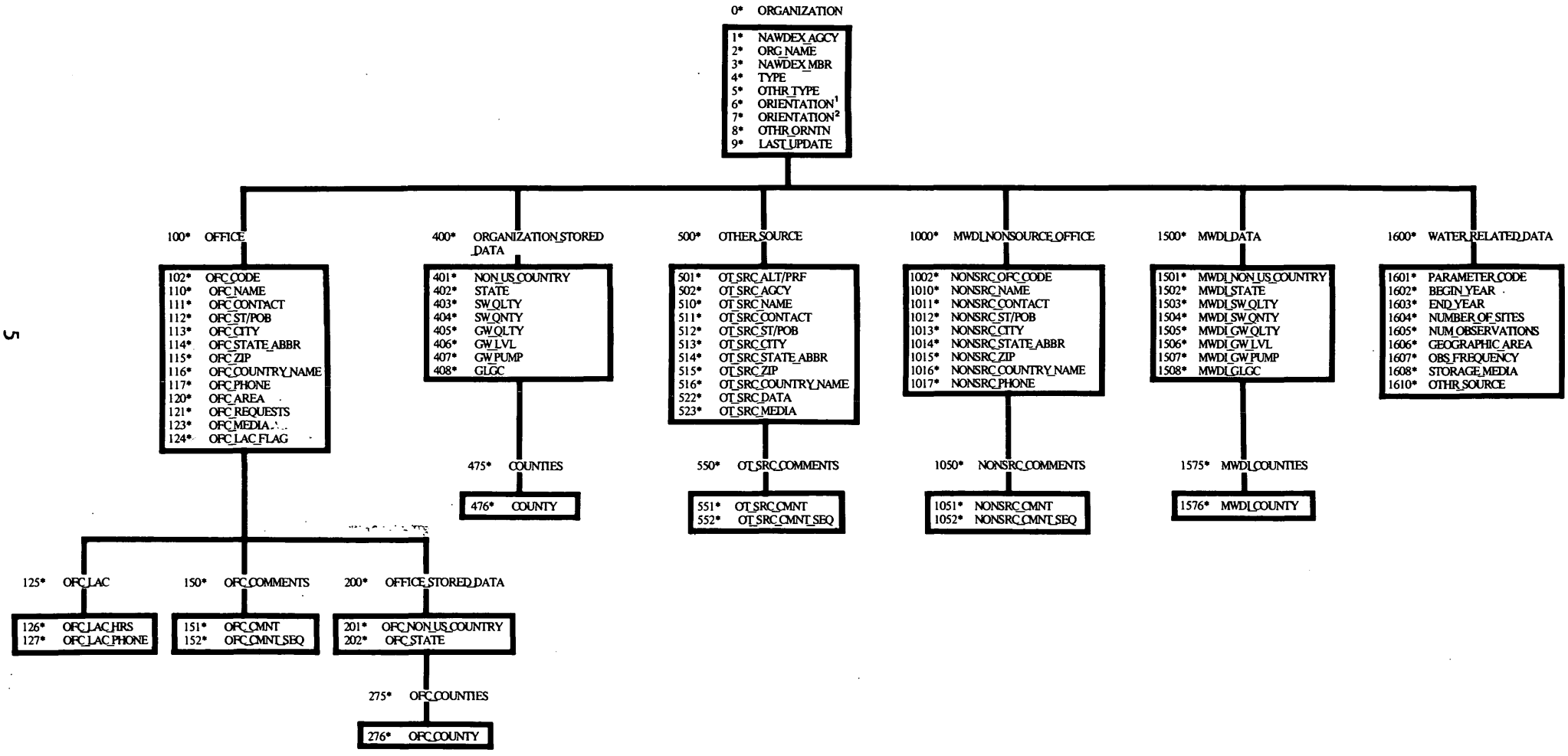


**Figure 2. Hierarchical structure of the Water Data Sources Directory data base.**

The attributes with which all users should be concerned are COMPONENT NAME, COMPONENT NUMBER, and KEY. COMPONENT NAME and COMPONENT NUMBER are simply labels for the component and may be used interchangeably by the user whenever referring to a component. The KEY attribute is an indicator of the relative expense and response time the user can expect when formulating a retrieval using the component in a conditional selection clause. For most cases, using key components (KEY=Yes) instead of non-key components (KEY=No), in specifying the selection criteria for a data base retrieval will result in faster response and lower expense. Additional information on the use of attributes may be obtained from the System 2000 Reference Manual.

Figure 3 illustrates the format used to describe WDSD components. Following is an explanation of each part of the description.

IN RG - A number appears here, which is the number of the repeating group (RG) to which the repeating group or data component belongs. For example, the top level repeating group, as shown in figure 2, is repeating group 0. Data components 1 through 9 belong to repeating group 0, as do repeating groups 100, 400, 500, 1000, 1500, and 1600. All data components that belong to the same repeating group appear together in this document.

COMPONENT NAME - The unique name of the repeating group or data component as used in the data base.

COMPONENT NUMBER - The unique number of the repeating group or data component as used in the data base.

MANDATORY - Marked either "Yes" or "No." If "Yes", a value for the data component must be present in every occurence of the repeating group. For example, data component 1, NAWDEX_AGCY, is mandatory because it is the unique identification code of the organization and, therefore, must always be present. On the other hand, data component 403, SW_QLTY, is not mandatory because not every organization operates surface water quality sites and, therefore, the data component may be null (non-valued).

KEY - Marked either "Yes" or "No." In SYSTEM 2000, certain data components are designated by the designer of the data base as KEY to provide efficiencies in data retrieval. However, any data component, whether KEY or not, can be retrieved from the WDSD. This designation is not used for repeating groups.

DATA TYPE - Contains either NAME, TEXT, INTEGER, DECIMAL, or DATE, depending on what type of data are stored for the component. NAME and TEXT are used to store alphanumeric data (any character recognized by the computer), the difference being that TEXT retains leading and trailing blanks and multiple blanks between words, and NAME does not. INTEGER and DECIMAL store whole numbers and decimal numbers, respectively, and DATE stores dates in the MM/DD/YYYY format. This notation is not applicable to repeating groups.

PICTURE - Describes the "storage capacity" of the data component, using X(n) or 9(n) notation. Data components that are NAME and TEXT have PICTURE lengths of X(n), where "n" is the total number of characters. For example, X(23) indicates that typically up to 23 characters are stored for the data component. X indicates that only one characters may be stored for the data component. INTEGER uses 9(n) to indicate the total number of digits that can be stored. For DECIMAL data components, 9(n).9(n) indicates places to the left and right of the decimal point. DATE is always MM/DD/YYYY, where MM equals month, DD equals day, and YYYY equals year, and, therefore, PICTURE designation is unnecessary. Repeating groups do not have a PICTURE designation.

LARGEST OR LONGEST VALUE - This is the largest value that is allowed for the data component. For example, the largest value of a component designated as PICTURE 9(4) may be 5075 because of editing standards placed on data input to the data base. For data components defined as NAME or TEXT, the largest value is allowed to exceed the PICTURE size because of the SYSTEM 2000 "overflow" capability. An example of this is data component 2, ORG_NAME, which is PICTURE X(23) but which may contain names up to 40 characters long.

DATA VALUES - This is a narrative definition of the values that can be stored for a data component.

GENERAL DESCRIPTION - This is a narrative description of the type of data stored for a data component, its purpose, and the source or usefulness of the data. If a coding scheme is used, the meaning of each code is explained.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| IN RG | COMPONENT NAME | COMPONENT NUMBER |
|---|---|---|

MANDATORY_____ KEY_____ DATA TYPE_____

PICTURE_____ LARGEST OR LONGEST VALUE_____

Data Values

General Description

Figure 3. Format of a component description.

# WATER DATA SOURCES DIRECTORY
# COMPONENT DEFINITIONS

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

ORGANIZATION DATA

| N/A | ORGANIZATION | 0 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information that identifies and describes the water-related activities of the organization.

This repeating group is the highest level of the hierarchical structure and, therefore, represents the logical entry of a single organization into the data base.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | NAWDEX_AGCY | 1 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Name

PICTURE X(5) LARGEST OR LONGEST VALUE 5 characters

Data Values - The NAWDEX agency code varies in length from three to five characters. For Federal organizations, it is US followed by a two or three-character abbreviation of the organization name. Values for non-Federal organizations whose activities are within a given state boundary have a two-character alphabetic state code followed by a NAWDEX-assigned sequence number. Values for non-Federal organizations having activities at the multistate or national level have a three to five character abbreviation of the organization name (the characters US will not appear in the first two character positions). Alphabetic state codes are contained in the Federal Information Processing Standards (FIPS) Publication, 5-1, dated June 15, 1970 and entitled "States and Outlying Areas of the United States." NAWDEX agency codes are presented in the publication entitled "Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey" which may be obtained from the National Water Data Exchange, U.S. Geological Survey, 421 National Center, Reston, Virginia 22092.

General Description - The NAWDEX agency code is assigned by the NAWDEX Program Office and is the unique identifier for participating Federal and non-Federal organizations that actively collect and store water data. Non-Federal organizations include state, county, and municipal agencies, as well as intergovernmental compacts, private organizations, universities, and any local organizations at other than county or municipal level.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | ORG_NAME | 2 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(23) LARGEST OR LONGEST VALUE 40 characters

Data Values - The name of the organization may contain up to 40 characters.

General Description - The name is the official name of the organization as it should appear on correspondence addressed to the organization.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | NAWDEX_MBR | 3 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE Y or N

Data Values - This component is valued with "N" if the organization is not a member of NAWDEX, or with "Y" if it is a member.

General Description - Membership in NAWDEX is voluntary and open to any water-oriented organization that wishes to take an active role in its activities. To be a member, a signed Memorandum of Understanding is required between the NAWDEX Program Office and the member organization. For those organizations that have signed a Memorandum of Understanding, this component is valued "Y." For all other organizations it is valued "N."

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | TYPE | 4 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE One-letter NAWDEX TYPE Code

Data Values - The TYPE component contains a one-character alphabetic code used to classify an organization into one of the categories explained below.

General Description:

| Code | | Meaning |
|---|---|---|
| C | County - | A single organization, typically governmental, whose scope of activity is encompassed by the boundaries of one or more counties but does not cover an entire state. |
| F | Federal - | An agency or agencies of the Federal government or a multicountry organization operating at the Federal level. |
| G | Intergovernmental - | An organization made up of different government agencies, such as Federal-State compacts, State-state compacts, Multicounty compacts, river basin commissions, etc. The scope of all the agencies involved is only within the United States. |
| I | International - | An organization made up of representatives from different countries, such as UNESCO, WHO, etc. |
| L | Local - | A local governmental organization other than County or Municipal. |
| M | Municipal - | A single municipal governmental organization. |
| P | Private - | An organization that cannot be classified as a governmental organization. |
| S | State - | A single governmental organization whose scope of activity is encompassed by the boundaries of a single state. |

DATA DICTIONARY

| 0 | TYPE (Continued) | 4 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY_____ KEY_____ DATA TYPE_____

PICTURE_____ LARGEST OR LONGEST VALUE_____

| Code | Meaning |
|---|---|
| U | University or Research Institute - An educational institution (public or private) at the university or college level, or a non-profit organization engaged in research. |
| O | Other - An organization that cannot be classified into one of the other categories. If this component is valued as "O" then component number 5, OTHR_TYPE, contains a description of the type of organization. |

| 0 | OTHR_TYPE | 5 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(4) LARGEST OR LONGEST VALUE 12 characters

Data Values - If the organization is a type that cannot be classified into one of the categories in component number 4, TYPE, then this component contains a description of the type of organization up to 12 characters in length. It is valued only if component number 4 is valued as "0" (Other).

General Description - Descriptions of "other" types of organizations are entered by the NAWDEX Program Office based on information supplied by the organizations.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | ORIENTATION1 | 6 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE One-character NAWDEX orientation code

Data Values - This component contains a one-character alphabetic code that describes the primary orientation of the organization's water-related activities.

General Description:

| Code | Meaning |
|---|---|
| A | Agriculture and Irrigation |
| B | Basic Hydrologic Research |
| D | Domestic, Rural |
| E | Evaluation of Resources |
| F | Flood Control |
| H | Hydroelectric |
| I | Industry |
| M | Multiple Source Public Supply |
| N | Navigation |
| P | Pollution Studies |
| R | Recreation |
| S | Single Source Public Supply |
| T | Thermoelectric |
| W | Fish and Wildlife |
| O | Other |

If this component is valued as "O" then component number 8, OTHR_ORNTN, contains a description of the orientation of the organization's water-related activities.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | ORIENTATION2 | 7 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

| | | |
|---|---|---|
| MANDATORY No | KEY Yes | DATA TYPE Name |
| PICTURE X | LARGEST OR LONGEST VALUE | One-character NAWDEX orientation code |

Data Values - This component contains a one-character alphabetic code that describes the secondary orientation of the organization's water-related activities, in the event that a single designation (in component 6, ORIENTATION1) is inadequate to describe those activities.

General Description - The same alphabetic codes used for ORIENTATION1 (component number 6) are used for ORIENTATION2.

| 0 | OTHR_ORNTN | 8 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE 12 characters

Data Values - This component contains up to a 12-character description of the orientation of the organization's water-related activities. It is valued only if either component number 6 or component number 7 is valued as "0" (Other).

General Description - Descriptions of "other" types of orientations are entered by the NAWDEX Program Office based on information supplied by the reporting organization.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | LAST_UPDATE | 9 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Date

PICTURE MMDDYYYY LARGEST OR LONGEST VALUE Current date

Data Values - Contains the month, day, and year of the last date (MM/DD/YYYY) that an update of any type was processed against the organization's entry in the data base.

General Description - An update is defined as any transaction that adds, deletes, or changes data values in the WDSD data base. If no updates have been made to the data about an organization, the LAST_UPDATE is the date on which the data was first inserted into the data base.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

OFFICE DATA

| 0 | OFFICE | 100 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information about one or more offices of the organization, including the office's address and telephone number and the areal coverage of the data possessed by the office.

The primary purpose of this repeating group is to provide information to NAWDEX users about offices that can and will supply their data upon request.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_CODE | 102 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Name

PICTURE X(4) LARGEST OR LONGEST VALUE 4 characters

Data Values - The Office Code is assigned by the NAWDEX Program Office and consists of from two to four alphanumeric characters to identify a particular office of the organization. For U.S. Geological Survey offices, the code consists of two or four numeric digits. The first two digits are the state code of the Water Resources Division District in which the office is located and the second two digits, if present, are an arbitrary code assigned to subdistrict offices.

General Definition - The Office Code is assigned by the NAWDEX Program Office and is used to retrieve addresses of operating offices from the Water Data Sources Directory data base. The code for an office is unique within an organization but is not necessarily unique across the data base. Its counterpart in the Master Water Data Index data base is component number 17, WDSD_OFC_CODE.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_NAME | 110 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(15) LARGEST OR LONGEST VALUE 40 characters

Data Values - The name of the office may contain up to 40 characters.

General Description - This is the official name of the office. If the organization has but a single office, this field may be identical to component 2, ORG_NAME.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_CONTACT | 111 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(15) LARGEST OR LONGEST VALUE 40 characters

Data Values - This component may contain up to 40 characters.

General Description - The office contact is the name, or title, of the person, or office, that should be contacted by a requester for the purpose of obtaining the office's data that are indexed in NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_ST/POB | 112 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(15) LARGEST OR LONGEST VALUE 40 characters

Data Values - This component may contain up to 40 characters.

General Description - This is the street address, or post office box number, of the office contact named in component 111, OFC_CONTACT. This is the address to which a requester should send a letter requesting the office's data indexed in NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_CITY | 113 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(10) LARGEST OR LONGEST VALUE 20 characters

Data Values - The name of the city, not to exceed 20 characters.

General Description - The city in which the office is located. The city name accompanies the address (component 112) and, therefore, should be the name of the city as it is used for mailing purposes.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_STATE_ABBR | 114 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Name

PICTURE X(2) LARGEST OR LONGEST VALUE WY

Data Values - A two-character Postal code identifying the state in which the office is located.

General Description - Postal codes are alphabetic state abbreviations recognized by the U.S. Postal Service as part of a mailing address. OFC_STATE_ABBR should be valued only if the office is located within the United States or one of its territories. If the office is outside the United States, this component is not valued.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_ZIP | 115 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(5) LARGEST OR LONGEST VALUE 99999

Data Values - This component contains a five-digit number which is a legal Postal ZIP Code. It is the ZIP code for the address of the office. OFC_ZIP should be valued only if the office is located within the United States or one of its territories.

General Description - ZIP Code is a five-digit geographic code that identifies areas within the United States and its possessions for purposes of simplifying the distribution of mail by the U.S. Postal Service. The ZIP Code alignments do not necessarily adhere to boundaries of cities, counties, states, or other jurisdictions.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_COUNTRY_NAME | 116 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(4) LARGEST OR LONGEST VALUE 30 characters

Data Values - This component contains the name of the country in which the office is located. If the office is in the United States, the abbreviation "USA" is used. For non-U.S. countries, the full name of the country is stored in the component.

General Description - The name of the country applies to the country in which the office is physically located. It is the name that is part of the mailing address on correspondence addressed to the office. It bears no relationship to the data holdings of the office.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_PHONE | 117 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(12) LARGEST OR LONGEST VALUE 999-999-9999

Data Values - This is the telephone number of the office. If the office is within the United States or one of its territories, the number consists of a three-digit area code, followed by a dash, followed by the seven digits of the local telephone number. A dash may appear between the third and fourth digits of the local number. If the office is outside the United States, whatever format is required is the one used to store the correct telephone number.

General Description - This is the telephone number at which the office can be reached.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_AREA | 120 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X LARGEST OF LONGEST VALUE S

Data Values - This component contains a one-character alphabetic code that describes the geographic area encompassed by the data available from the office.

General Description:

| Code | | Meaning |
|---|---|---|
| A | Multicounty | - Two or more counties, all in the same state, but not encompassing the entire state. |
| C | One county | - All the available data are for a single county. |
| I | Multicountry, International | - Data from more than one country are available. |
| M | Multistate/province | - Data from more than one state or province are available, and all data are for a single country. |
| N | | The available data span an entire country and are limited to that single country. |
| S | Statewide | - The available data span an entire state and are limited to that single state (or province). |

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_REQUESTS | 121 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE Y or N

Data Values - This component is valued with "Y" if the office responds to requests for data, and with "N" if it does not.

General Description - Offices that collect and/or store water data may or man not choose to furnish that data to those who request it. If the office does respond to requests for its data, then this component is valued with "Y". This information is furnished to users of NAWDEX so that they can ascertain if the office can be contacted to obtain data.

If the office does not respond to requests for its data, it is still included in the WDSD for administration purposes, and this component is valued with "N". Frequently offices that do not respond to requests for data furnish their data to one or more organizations that do respond to requests. When this is the case, information about the alternate source of data is contained in repeating group number 400.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 100 | OFC_MEDIA | 123 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE P

Data Values - This component contains a one-character alphabetic code that describes the types(s) of media used to store the office's hydrologic data.

General Description:

| Code | Meaning |
|---|---|
| C | Computer recognizable - The data are stored on meida that can be read by a computer. This might be punched cards, paper tape, magnetic disk, drum, or some similar device. |
| D | Computer and published - Data are stored in both computer recognizable and published form. |
| E | Computer and microform - Data are stored in both computer recognizable and microform formats. |
| F | Computer, published, and microform - Data are stored in computer recognizable, published, and microform formats. |
| G | Published and microform - Data are stored in both published and microform formats. |
| M | Micoform - Printed data which are stored in reduced size on roll microfilm, microfiche, aperture cards, or some other type of microfilm. |
| P | Published - The data are available in printed form. |

NAWDEX

WATER DATA SOURCES DIRETORY

DATA DICTIONARY

| 100 | OFC_LAC_FLAG | 124 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9 LARGEST OR LONGEST VALUE 1

Data Values - Valued "1" if the office is a NAWDEX Assistance Center. Otherwise, it is not valued.

General Description - The purpose of this component is to identify offices that are Assistance Centers for the NAWDEX program. The service capabilities of NAWDEX are supported by a nationwide network of Assistance Centers. These Centers were established in offices of NAWDEX members to provide local and convenient access to NAWDEX and its services. Most are equipped with computer terminals, thereby providing an extensive telecommunications network for access to the computerized directory and indexes being developed for the NAWDEX program. As the NAWDEX membership increases, additional Centers will be added in large population areas and areas of high user interest to provide more optimal access to NAWDEX and its services. A complete directory of Assistance Centers may be obtained from the National Water Data Exchange, U.S. Geological Survey, 421 National Center, Reston, Virginia 22092.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

ASSISTANCE CENTER DATA

| 100 | OFC_LAC | 125 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - The repeating group contains the telephone numbers and operating hours of Assistance Centers.

| 125 | OFC_LAC_HRS | 126 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Text

PICTURE X(20) LARGEST OR LONGEST VALUE 20 characters

Data Values - The hours of operation of the Assistance Center are given in the following manner:

As shown on the following table, the first three characters indicated the time zone, standardized to Greenwich Mean Time; the fourth character is a blank.

| U.S. Time Zone | Greenwich Standardization (First Three Characters) |
|---|---|
| Atlantic | +04 |
| Eastern | +05 |
| Central | +06 |
| Mountain | +07 |
| Pacific | +08 |
| Yukon | +09 |
| Alaska-Hawaii | +10 |
| Bering | +11 |

The following abbreviations are also incorporated: SU for Sunday; M for Monday; T for Tuesday; W for Wednesday; TH for Thursday; F for Friday; S for Saturday.

Thus, the following would be for an office in the Central Time Zone in the U.S.A. which is open from 9AM to 3PM on Monday through Thursday, and 9AM to 2PM on Friday:

+ 0 6 M - TH 9 - 3 F 9 - 2

General Description - This component contains information about the hours during which someone is available at an Assistance Center to respond to requests for data.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 125 | OFC_LAC_PHONE | 127 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Name

PICTURE X(12) LARGEST OR LONGST VALUE 999-999-9999

Data Values - This is the telephone number of the Assistance Center. If the office is within the United States or one of its territories, the number consists of a three-digit area code, followed by a dash, followed by seven digits of the local telephone number. A dash may appear between the third and fourth digits of the local number. If the office is outside the United States, whatever format is required is the one used.

General Description - This is the telephone number at which the Assistance Center can be reached for the purpose of requesting information from NAWDEX. It may differ from the telephone number in component 117, OFC_PHONE, because OFC_LAC_PHONE is the number to call to request data and index information from NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

OFFICE COMMENTS

| 100 | OFC_COMMENTS | 150 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - General information, in textual form, about an office and its data holdings.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 150 | OFC_CMNT | 151 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Text

PICTURE X(20) LARGEST OR LONGEST VALUE 40 characters

Data Values - Contains textual comments about the office and its data holdings in a textal format.

General Description - The purpose of this component is to provide a means of storing general information about an office and its data holdings. The information may include anything that would potentially be of interest to a user of NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 150 | OFC_CMNT_SEQ | 152 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Integer

PICTURE 99 LARGEST OR LONGEST VALUE 99

Data Values - A two-digit number that identifies a comment. The first digit is the sequence number of the comment. The second digit is the sequence number of an individual line of the comment.

General Description - The comment sequence number has two purposes. One is to distinguish among separate comments. Up to nine comments can be present under any office, and the first digit of the comment sequence number will be valued from one to nine. The second purpose of the sequence number is to permit segmenting long comments into lines of up to 40 characters per line. Each line is numbered from zero to nine so that if a comment has several lines, they will be printed in correct order when sorted by the sequence number in ascending order.

Therefore, the first line of the first comment is numbered "10," the second line is numbered "11," etc. The first line of the second comment is "20."

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

OFFICE STORED DATA

| 100 | OFFICE_STORED_DATA | 200 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information about the geographic area covered by the data available from the office.

| 200 | OFC_NON_US_COUNTRY | 201 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Name

PICTURE X(2) LARGEST OR LONGEST VALUE 2 characters

Data Values - This component contains a two-character alphabetic FIPS country code, if, and only if, the office has data for sites physically located outside the United States; if the office's data is for sites within the United States, the component will not e valued. Commonly used values are:

MX = Mexico
RP = Republic of the Phillipine Islands
CA = Canada

A complete list of country codes is contained in the Federal Information Processing Standards (FIPS) publication 10-2, dated 1976, entitled "Countries, Dependencies, and Areas of Special Sovereignty."

General Description - The non-U.S. country code is valued for only those offices that have data from sites that lie outside of the borders of the United States and its outlying areas. It bears no relationship to the location of the office.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 200 | OFC_STATE | 202 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(3) LARGEST OR LONGEST VALUE 99

Data Values - This component contains a two-digit numeric code representing the state for which the office has data. Numeric codes for foreign installations will also appear, when applicable, as follows:

80 = Mexico
- 81 = Tamaulipas
- 82 = Nuevo Leon
- 83 = Coahuila
- 84 = Chihuahua
- 85 = Sonora
- 86 = Baja California Norte

87 = Canada
- 90 = New Brunswick
- 91 = Quebec
- 92 = Ontario
- 93 = Manitoba
- 94 = Saskatchewan
- 95 = Alberta
- 96 = British Columbia
- 97 = Yukon

99 = U.S. Foreign Installations - Miscellaneous

General Description - State codes are contained in the Federal Information Processing Standards (FIPS) publication 5-1, dated June 15, 1970, entitled "States and Outlying Areas of the United States," and temporary codes are assigned by NAWDEX to identify foreign installations. The state code represents the location of a data collection site for which the office has data, not the location of the office itself.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

OFFICE COUNTIES

| 200 | OFC_COUNTIES | 275 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information about the counties for which the office has data.

| 275 | OFC_COUNTY | 276 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Integer

PICTURE 9(3) LARGEST OR LONGEST VALUE 840

Data Values - This component contains a three-digit numeric county code for a county for which the office has data. For data from sites outside the United States, this component is not valued.

General Description - This component is valued with a code representing a county in which a data collection site exists, for which the office has data from the site. The county must be in the state whose code is in component C202, OFC_STATE. County codes are contained in the Federal Information Processing Standards (FIPS) publication 6-2, dated September 15, 1973, entitled "Counties and County Equivalents of the States of the United States."

Note: Codes used to value this component include independent city codes for the states of Maryland, Missouri, Nevada, and Virginia and division codes for the state of Alaska.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

ORGANIZATION STORED DATA

| 0 | ORGANIZATION_STORED_DATA | 400 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information about the number and types of sites operated by the organization.

| 400 | NON_US_COUNTRY | 401 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Name

PICTURE X(2) LARGEST OR LONGEST VALUE 2 characters

Data Values - This component contains a two-character alphabetic country code, if and only if, the organization operates data collection sites physically located outside the United States. If the organization's data collection sites are within the United States, the component is not valued. Commonly used values are:

MX = Mexico
RP = Republic of the Phillipine Islands
CA = Canada

A complete list of country codes is contained in the Federal Information Processing Standards (FIPS) publication 10-2, dated 1976, entitled "Countries, Dependencies, and Areas of Special Sovereignty."

General Description - The non-U.S. country code is valued for only those organizations that operate data collection sites that lie outside of the borders of the United States and its outlying areas. It bears no relationship to the location of the organization.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 400 | STATE | 402 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(3) LARGEST OR LONGEST VALUE 99

Data Values - This component contains a two-digit numeric code representing the state in which the organization operates data collection sites. Numeric codes for foreign countries will also appear, when applicable, as follows:

80 = Mexico
- 81 = Tamaulipas
- 82 = Nuevo Leon
- 83 = Coahuila
- 84 = Chihuahua
- 85 = Sonora
- 86 = Baja California Norte

87 = Canada
- 90 = New Brunswick
- 91 = Quebec
- 92 = Ontario
- 93 = Manitoba
- 94 = Saskatchewan
- 95 = Alberta
- 96 = British Columbia
- 97 = Yukon

99 = U.S. Foreign Installations - Miscellaneous

A complete list of state codes is contained in the Federal Information Processing Standards (FIPS) publication 5-1, dated June 15, 1970 entitled "States and Outlying Areas of the United States."

General Description - The STATE component is valued for those states in which there are sites for which the organization has data. It bears no relationship to the location of the organization.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 400 | SW_QLTY | 403 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of surface water quality sites, located in the state identified by component 402 or the country identified by component 401, which the organization operates.

General Description - The total includes surface water sites at which one or more water quality parameters are, or have been, collected. It includes both active and inactive sites and it makes no difference whether or not the data are supplied by the organization upon request. Sites included in the total are only those that are operated by the organization in the state identified by component 402 or the country identified by component 401. If the organization has data from sites operated by other organizations, these sites are not included in the total. Water quality parameters include physical, chemical, sediment, or biological characteristics of water.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 400 | SW_QNTY | 404 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of surface water quantity sites, located in the state identified by component 402 or the country identified by component 401, which the organization operates.

General Description - The total includes surface water sites at which one or more water quantity parameters are, or have been, collected. It includes both active and inactive sites and it makes no difference whether or not the data are supplied by the organization upon request. Sites included in the total are only those that are operated by the organization in the state identified by component 402 or the country identified by component 401. If the organization has data from sites operated by other organizations, these sites are not included in the total. Surface water quantity parameters include such items as streamflow, peak flow, low flow, peak stage, low stage, reservoir content, and change in reservoir content.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 400 | GW_QLTY | 405 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water quality sites, located in the state identified by component 402 or the country identified by component 401, which the organization operates.

General Description - The total includes ground water sites at which one or more water quality parameters are, or have been, collected. It includes both active and inactive sites and it makes no difference whether or not the data are supplied by the organization upon request. Sites included in the total are only those that are operated by the organization in the state identified by component 402 or the country identified by component 401. If the organization has data from sites operated by other organizations, these sites are not included in the total. Water quality parameters include physical, chemical, or biological characteristics of water.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 400 | GW_LVL | 406 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water level data monitoring sites, located in the state identified by component 402 or the country identified by component 401, which the organization operates.

General Description - The total includes ground water sites at which water level measurements are, or have been, collected. It includes both active and inactive sites and it makes no difference whether or not the data are supplied by the organization upon request. Sites included in the total are only those that are operated by the organization in the state identified by component 402 or the country identified by component 401. If the organization has data from sites operated by other organizations, these sites are not included in the total.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 400 | GW_PUMP | 407 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water pumpage data monitoring sites, located in the state identified by component 402 or the country identified by component 401, which the organization operates.

General Description - The total includes ground water sites at which pumpage measurements are, or have been, collected. It includes both active and inactive sites and it makes no difference whether or not the data are supplied by the organization upon request. Sites included in the total are only those that are operated by the organization in the state identified by component 402 or the country identified by component 401. If the organization has data from sites operated by other organizations, these sites are not included in the total.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 400 | GLGC | 408 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water sites with geologic descriptions available, located in the state identified by component 402 or the country identified by component 401, which the organization operates.

General Description - The total includes ground water sites for which there is information describing the geology in which the site is located. This includes descriptions of the surficial geology and other information such as stratigraphic or lithologic logs. It includes both active and inactive sites and it makes no difference whether or not the information is supplied by the organization upon request. Sites included in the total are only those that are operated by the organization in the state identified by component 402 or the country identified by component 401. If the organization has data from sites operated by other organizations, these sites are not included in the total.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

ORGANIZATION COUNTIES

| 400 | COUNTIES | 475 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Identifies the counties in which the organization operates data collection sites.

| 475 | COUNTY | 476 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Integer

PICTURE 9(3) LARGEST OR LONGEST VALUE 840

Data Values - This component contains a three-digit numeric FIPS code for a county in which the organization operates one or more data collection sites. For sites operated outside the United States there will be no occurrences of the COUNTIES repeating group.

General Description - This component is valued for those counties in which there are one or more data collection sites operated by the organization. The counties must be in the state identified in component 402, STATE. A complete list of county codes is contained in the Federal Information Processing Standards (FIPS) publication 6-2, dated September 15, 1973, entitled "Counties and County Equivalents of the States of the United States."

Note: Codes used to value this component include independent city codes for the states of Maryland, Missouri, Nevada, and Virginia, and division codes for the state of Alaska.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

OTHER SOURCE DATA

| 0 | OTHER_SOURCE | 500 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information about other sources of the organization's data. If another organization stores, in part or in whole, data available from the organization named in component ORG_NAME, and will respond to requests for the data, that organization is an "other source."

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_ALT/PRF | 501 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE A or P

Data Values - Contains either an "A" or a "P" depending upon whether the organization is an alternate source or a preferred source, respectively.

General Description - A distinction is made between an alternate source, an "other source" which can be contacted instead of the organization that collected the data, and a preferred data source, an "other source" which should be contacted instead of the collector organization. A collector organization that does not have the capability to respond to requests for data may designate another organization as a preferred source. If the collector organization will respond to requests for its data, and its data is also available from another organization, that other organization may be designated as an alternate source.

All data stored by the collector organization may not be available from the "other source" organization. Component 522, OT_SRC_DATA, tells what kinds of data are available from the "other source" organization, and any further qualifications can be explained in comment form in component 551, OT_SRC_CMNT.

| 500 | OT_SRC_AGCY | 502 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Name

PICTURE X(5) LARGEST OR LONGEST VALUE 5 characters

Data Values - This is the NAWDEX agency code for the "other source" organization. The NAWDEX agency code varies in length from three to five characters. For Federal organizations it is US followed by a two or three-character meaningful abbreviation of the organization name. Values for non-Federal organizations whose activities are contained within a given state boundary will have a two-character alphabetic state code followed by a NAWDEX assigned sequence number. Values for non-Federal organizations having activities at the multistate or national level have a three to five character meaningful abbreviation of the organization name (the characters US will not appear in the first two character positions). Alphabetic state codes are contained in the Federal Information Processing Standards (FIPS) publication 5-1, dated June 15, 1970, entitled "States and Outlying Areas of the United States." NAWDEX agency codes are presented in the publication entitled "Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey," which may be obtained from the National Water Data Exchange, U.S. Geological Survey, 421 National Center, Reston, Virginia 22092.

General Description - The NAWDEX agency code is assigned by the NAWDEX Program Office and is the unique identifier for the participating Federal and non-Federal organizations that actively collect and store water data. Non-Federal organizations include state, county, and municipal agencies, as well as intergovernmental compacts, private organizations, universities, and any local organizations at other than county or municipal level.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_NAME | 510 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Name

PICTURE X(23) LARGEST OR LONGEST VALUE 40 characters

Data Values - The name of the organization may contain up to 40 characters.

General Description - This is the official name of the organization.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_CONTACT | 511 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(15) LARGEST OR LONGEST VALUE 40 characters

Data Values - This component may contain up to 40 characters.

General Description - The contact is the name, or title, of the person, or organization, that should be contacted by a requester for the purpose of obtaining the organization's data that are indexed in NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_ST/POB | 512 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(15) LARGEST OR LONGEST VALUE 40 characters

Data Values - This component may contain up to 40 characters.

General Description - This is the street address or post office box number of the contact named in component 511, OT_SRC_CONTACT. This is the address to which a requester should send a letter asking for the organization's data indexed in NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_CITY | 513 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(10) LARGEST OR LONGEST VALUE 20 characters

Data Values - The name of a city, not to exceed 20 characters.

General Description - The city in which the organization is located. The city name accompanies the address (component 512) and, therefore, should be the name of the city as it is used for mailing purposes.

| 500 | OT_SRC_STATE_ABBR | 514 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE XX LARGEST OR LONGEST VALUE WY

Data Values - A two-character Postal code identifying the state in which the organization is located.

General Description - Postal Codes are alphabetic state abbreviations recognized by the U.S. Postal Service as part of a mailing address. OT_SRC_STATE_ABBR should be valued only if the organization is located within the United States or one of its territories. If the organization is outside the United States, this component is not valued.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_ZIP | 515 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(5) LARGEST OR LONGEST VALUE 99999

Data Values - This component contains a five-digit number which is a legal Postal ZIP Code. It is the ZIP code for the address of the organization. OT_SRC_ZIP should be valued only if the organization is located within the United States or one of its territories.

General Description - ZIP Code is a five-digit geographic code that identifies areas within the United States and its possessions for purposes of simplifying the distribution of mail by the U.S. Postal Service. The ZIP Code alignments do not necessarily adhere to boundaries of cities, counties, states, or other jurisdictions.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_COUNTRY_NAME | 516 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(4) LARGEST OR LONGEST VALUE 30 characters

Data Values - This component contains the name of the country in which the organization is located. If the organization is in the United States, the abbreviation "USA" is used. For non-U.S. countries, the full name of the country is stored in this component.

General Description - The name of the country applies to the country in which the organization is physically located. It is the name that would be part of a mailing address on correspondence addressed to the organization. It bears no relationship to the data holdings of the organization.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 500 | OT_SRC_DATA | 522 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Name

PICTURE X(4) LARGEST OR LONGEST VALUE 6 characters

Data Values - This component contains one or more alphabetic codes indicating what kinds of data from the collector organization are available from the "other source" organization. From one to six codes can be used.

General Description:

| Code | Meaning |
|---|---|
| D | Geologic Descriptions - Information describing the geology of the area around data collection sites is available. |
| G | Ground Water Quality - Water quality data from ground water sites are available. |
| L | Ground Water Level - Water level measurements from ground water sites are available. |
| P | Ground Water Pumpage - Pumpage measurements (drawdown volume) from ground water sites are available. |
| Q | Surface Water Quantity - Water quantity data from surface water sites are available. |
| S | Surface Water Quality Stations - Water quality data from surface water sites are available. |

| 500 | OT_SRC_MEDIA | 523 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X LARGEST OR LONGEST VALUE P

Data Values - This component contains a one-character alphabetic code that describes the type(s) of media used to store the organization's hydrologic data.

General Description:

| Code | Meaning |
|---|---|
| C | Computer recognizable - The data are stored on media that can be read by a computer. This might be punched cards, paper tape, magnetic tape, magnetic disk, drum, or some similar device. |
| D | Computer and published - Data are stored in both computer recognizable and published form. |
| E | Computer and microform - Data are stored in both computer recognizable and microform formats. |
| F | Computer, published, and microform - Data are stored in computer recognizable, published, and microform formats. |
| G | Published and microform - Data are stored in both published and microform formats. |
| M | Microform - Printed data which are stored in reduced size on roll microfilm, microfiche, aperture cards, or some other type of microfilm. |
| P | Published - The data are available in printed form. |

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

OTHER SOURCE COMMENTS

| 500 | OT_SRC_COMMENTS | 550 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - General Information, in textual form, about an "other source" organization and its data holdings.

| 550 | OT_SRC_CMNT | 551 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Text

PICTURE X(20) LARGEST OR LONGEST VALUE 40 characters

Data Values - Contains textual comments about the "other source" organization and its data holdings in a textual format.

General Description - The purpose of this element is to provide a means of storing general information about an "other source" organization and its data holdings. The information may include anything that would potentially be of interest to a user of NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 550 | OT_SRC_CMNT_SEQ | 552 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Integer

PICTURE 99 LARGEST OR LONGEST VALUE 99

Data Values - A two-digit number that identifies a comment. The first digit is the sequence number of the comment. The second digit is the sequence number of an individual line of the comment.

General Description - The comment sequence number has two purposes. One is to distinguish among separate comments. Up to nine comments can be present under any "other source" organization, and the first digit of the comment sequence number will be valued from one to nine. The second purpose of the sequence number is to permit segmenting long comments into lines of up to 40 characters per line. Each line is numbered from zero to nine so that if a comment has several lines, they will be printed in correct order when sorted by the sequence number in ascending order.

Therefore, the first line of the first comment is numbered "10," the second line is numbered "11," etc. The first line of the second comment is "20."

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

NONSOURCE OFFICE DATA

| 0 | MWDI_NONSOURCE_OFFICE | 1000 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Contains information about any office of the organization that collects and/or stores water data but does not respond to requests for its data. This information is for administrative purposes only and is not disseminated to those who request information from NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_OFC_CODE | 1002 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Name

PICTURE X(4) LARGEST OR LONGEST VALUE 4 characters

Data Values - The NAWDEX Office Code is assigned by the NAWDEX Program Office and consists of from two to four alphanumeric characters to identify a particular office of the organization. For U.S. Geological Survey stations the code consists of two or four numeric digits. The first two digits are the state code of the Water Resources Division District in which the office is located and the second two digits, if present, are an arbitrary code assigned to subdistrict offices.

General Description - The Office Code is assigned by the NAWDEX Program Office and is used by NAWDEX support software to retrieve addresses of operating offices from the Water Data Sources Directory data base. The code for an office is unique within an organization but is not necessarily unique across the data base. Its counterpart in the Master Water Data Index data base is component number 17, WDSD_OFC_CODE.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_NAME | 1010 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(23) LARGEST OR LONGEST VALUE 40 characters

Data Values - The name of the nonsource office may contain up to 40 characters.

General Description - This is the official name of the nonsource office.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_CONTACT | 1011 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(15) LARGEST OR LONGEST VALUE 40 characters

Data Values - This component may contain up to 40 characters.

General Description - The contact is the title or name of the person who should be contacted to obtain information about the organization and its data holdings. This information is for administrative purposes only.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_ST/POB | 1012 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(15) LARGEST OR LONGEST VALUE 40 characters

Data Values - This component may contain up to 40 characters.

General Description - This is the street address or post office box number, of the nonsource office named in component 1010, NONSRC_NAME.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_CITY | 1013 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(10) LARGEST OR LONGEST VALUE 20 characters

Data Values - The name of a city, not to exceed 20 characters.

General Description - The city in which the nonsource office is located. The city name accompanies the address (component 1012) and, therefore, should be the name of the city as it is used for mailing purposes.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_STATE_ABBR | 1014 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Name

PICTURE XX LARGEST OR LONGEST VALUE WY

Data Values - A two-character Postal code identifying the state in which the nonsource office is located.

General Description - Postal codes are alphabetic state abbreviations recognized by the U.S. Postal Service as part of a mailing address. NONSRC_STATE_ABBR should be valued only if the office is located within the United States or one of its territories. If the office is outside the United States, this component is not valued.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_ZIP | 1015 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(5) LARGEST OR LONGEST VALUE 99999

Data Values - This component contains a five-digit number which is a legal Postal ZIP Code. It is the ZIP Code for the address of the nonsource office. OFC_ZIP should be valued only if the office is located within the United States or one of its territories.

General Description - ZIP Code is a five-digit geographic code that identifies areas within the United States and its possessions for purposes of simplifying the distribution of mail by the U.S. Postal Service. The ZIP Code alignments do not necessarily adhere to boundaries of cities, states, or other jurisdictions.

| 1000 | NONSRC_COUNTRY_NAME | 1016 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(4) LARGEST OR LONGEST VALUE 30 characters

Data Values - This component contains the name of the country in which the nonsource office is located. If the office is in the United States, the abbreviation "USA" is used. For non-U.S. countries, the full name of the country is stored in this component.

General Description - The name of the country applies to the country in which the office is physically located. It is the name that is part of the mailing address on correspondence addressed to the office. It bears no relationship to the data holdings of the office.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1000 | NONSRC_PHONE | 1017 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(12) LARGEST OR LONGEST VALUE 999-999-9999

Data Values - This is the telephone number of the nonsource office. If the office is within the United States or one of its territories, the number consists of a three-digit area code, followed by a dash, followed by the seven digits of the local telephone number. A dash may appear between the third and fourth digits of the local number. If the office is outside the United States, whatever format is required is the one used.

General Description - This is the telephone number at which the office can be reached.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

NONSOURCE OFFICE COMMENTS

| 1000 | NONSRC_COMMENTS | 1050 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - General information, in textual form, about a nonsource office and its data holdings.

| 1050 | NONSRC_CMNT | 1051 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Text

PICTURE X(20) LARGEST OR LONGEST VALUE 40 characters

Data Values - Contains textual comments about the nonsource office and its data holdings in a textual format.

General Description - The purpose of this component is to provide a means of storing general information about a nonsource office and its data holdings. The information may include anything that would potentially be of interest to a user of NAWDEX.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1050 | NONSRC_CMNT_SEQ | 1052 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY No DATA TYPE Integer

PICTURE 99 LARGEST OR LONGEST VALUE 99

Data Values - A two-digit number that identifies a comment. The first digit is the sequence number of the comment. The second digit is the sequence number of an individual line of the comment.

General Description - The comment sequence number has two purposes. One is to distinguish among separate comments. Up to nine comments can be present under any nonsource office, and the first digit of the comment sequence number will be valued from one to nine. The second purpose of the sequence number is to permit segmenting long comments into lines of up to 40 characters per line. Each line is numbered form zero to nine so that if a comment has several lines, they will be printed in correct order when sorted by the sequence number in ascending order.

Therefore, the first line of the first comment is numbered "10," the second line is numbered "11," etc. The first line of the second comment is "20."

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

MASTER WATER DATA INDEX (MWDI) DATA

| 0 | MWDI_DATA | 1500 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information on the total number of an organization's data collection sites about which data are stored in the Master Water Data Index (MWDI) data base of the National Water Data Exchange (NAWDEX).

| 1500 | MWDI_NON_US_COUNTRY | 1501 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Name

PICTURE X(2) LARGEST OR LONGEST VALUE 2 characters

Data Values - This component contains a two-character alphabetic country code if the organization has sites in the Master Water Data Index data base that are physically located outside the United States. If the organization's sites are within the United States, this component is not valued. Commonly used values are:

MX = Mexico
RP = Republic of the Phillipine Islands
CA = Canada

A complete list of country codes is contained in the Federal Information Processing Standards (FIPS) publication 10-2, dated 1976, entitled "Countries, Dependencies, and Areas of Special Sovereignty."

General Description - This component is valued only if the organization operates sites outside the boundaries of the United States and its territories and if one or more of those sites are indexed in the Master Water Data Index data base. It bears no relationship to the location of the organization or to the organization's sites outside the United States that are not indexed in the Master Water Data Index.

| 1500 | MWDI_STATE | 1502 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Integer

PICTURE 9(3) LARGEST OR LONGEST VALUE 99

Data Values - This component contains a two-digit numeric code representing a state in which the organization operates sites, as long as one or more of those sites are indexed in the Master Water Data Index. Numeric codes for foreign countries will also appear, when applicable, as follows:

80 = Mexico
- 81 = Tamaulipas
- 82 = Nuevo Leon
- 83 = Coahuila
- 84 = Chihuahua
- 85 = Sonora
- 86 = Baja California Norte

87 = Canada
- 90 = New Brunswick
- 91 = Quebec
- 92 = Ontario
- 93 = Manitoba
- 94 = Saskatchewan
- 95 = Alberta
- 96 = British Columbia
- 97 = Yukon

99 = U.S. Foreign Installations - Miscellaneous

A complete list of state codes is contained in the Federal Information Processing Standards (FIPS) publication 5-1, dated June 15, 1970, entitled "States and Outlying Areas of the United States."

General Description - The MWDI_STATE component is valued for those states in which the organization operates sites that are indexed in the Master Water Data Index. It bears no relationship to the location of the organization or to the organization's sites that are not indexed in the Master Water Data Index.

| 1500 | MWDI_SW_QLTY | 1503 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of surface water quality sites operated by the organization that are located in the state identified in component 1502 (or country identified in component 1501) and indexed in the Master Water Data Index. For the same organization and state/country, the value in component 1503 must be less than or equal to the value in component 403.

General Description - The purpose of this element is to provide information on the number of the organization's surface water quality sites that are indexed in the Master Water Data Index. It should not be confused with component 403, SW_QLTY, which is the total number of surface water quality sites operated by the organization, regardless of how many of them are indexed in the Master Water Data Index. If a site is indexed in the Master Water Data Index, detailed information about the site is available, including its name, location, period of record, and frequency of collection of up to 60 variables at the site.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1500 | MWDI_SW_QNTY | 1504 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of surface water quantity sites operated by the organization that are located in the state identified in component 1502 (or country identified in component 1501) and are indexed in the Master Water Data Index. For the same organization and state/country, the value in component 1504 must be less than or equal to the value in component 404.

General Description - The purpose of this element is to provide information on the number of the organization's surface water quantity sites that are indexed in the Master Water Data Index. It should not be confused with component 404, SW_QNTY, which is the total number of surface water quantity sites operated by the organization, regardless of how many of them are indexed in the Master Water Data Index. If a site is indexed in the Master Water Data Index, detailed information about the site is available, including its name, location, period of record, and frequency of collection of up to 60 variables at the site.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1500 | MWDI_GW_QLTY | 1505 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water quality sites operated by the organization that are located in the state identified in component 1502 (or country identified in component 1501) and are indexed in the Master Water Data Index. For the same organization and state/country, the value in component 1505 must be less than or equal to the value in component 405.

General Description - The purpose of this element is to provide information on the number of the organization's ground water quality sites that are indexed in the Master Water Data Index. It should not be confused with component 405, GW_QLTY, which is the total number of ground water quality sites operated by the organization, regardless of how many of them are indexed in the Master Water Data Index. If a site is indexed in the MWDI, detailed information about the site is available, including its name, location, period of record, and frequency of collection of up to 60 variables at the site.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1500 | MWDI_GW_LVL | 1506 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water level sites operated by the organization that are located in the state identified in component 1502 (or country identified in component 1501) and are indexed in the Master Water Data Index. For the same organization and state/country, the value in component 1506 must be less than or equal to the value in component 406.

General Description - The purpose of this element is to provide information on the number of the organization's ground water level sites that are indexed in the Master Water Data Index. It should not be confused with component 406, GW_LVL, which is the total number of ground water level sites operated by the organization, regardless of how many of them are indexed in the Master Water Data Index. If a site is indexed in the Master Water Data Index, detailed information about the site is available, including its name, location, period of record, and frequency of collection of up to 60 variables at the site.

| 1500 | MWDI_GW_PUMP | 1507 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water pumpage sites operated by the organization that are located in the state identified in component 1502 (or country identified in component 1501) and indexed in the Master Water Data Index. For the same organization and state/country, the value in component 1507 must be less than or equal to the value in component 407.

General Description - The purpose of this element is to provide information on the number of the organization's ground water pumpage sites that are indexed in the Master Water Data Index. It should not be confused with component 407, GW_PUMP, which is the total number of ground water pumpage sites operated by the organization, regardless of how many of them are indexed in the Master Water Data Index. If a site is indexed in the Master Water Data Index, detailed information about the site is available, including its name, location, period of record, and frequency of collection of up to 60 variables at the site.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1500 | MWDI_GLGC | 1508 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of ground water sites with geologic descriptions available, that are operated by the organization, located in the state identified in component 1502 (or country identified in component 1501), and are indexed in the Master Water Data Index. For the same organization and state/country, the value in component 1508 must be less than or equal to the value in component 408.

General Description - The purpose of this element is to provide information on the number of the organization's ground water sites that are indexed in the Master Water Data Index for which there is information describing the geology in which the sites are located. It should not be confused with component 408, GLGC, which is the total number of sites with geologic information operated by the organization, regardless of how many of them are indexed in the Master Water Data Index. If a site is indexed in the Master Water Data Index, detailed information about the site is available, including its name, location, period of record, and frequency of collection of up to 60 variables at the site.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

MASTER WATER DATA INDEX (MWDI) COUNTIES

| 1500 | MWDI_COUNTIES | 1575 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Identifies the counties in which the organization operates sites that are indexed in the Master Water Data Index.

| 1575 | MWDI_COUNTY | 1576 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY Yes KEY Yes DATA TYPE Integer

PICTURE 999 LARGEST OR LONGEST VALUE 840

Data Values - This component contains a three-digit numeric code for a county in which the organization operates one or more sites that are indexed in the Master Water Data Index. For sites operated outside the United States, there will be no occurrences of the MWDI_COUNTIES repeating group.

General Description - This component is valued for those counties in which there are one or more data collection sites operated by the organization, if those sites are indexed in the MWDI. The counties must be in the state identified in component 1502, MWDI_STATE. A complete list of county codes is contained in the Federal Information Processing Standards (FIPS) publication 6-2, dated September 15, 1973, entitled "Counties and County Equivalents of the States of the United States."

Note: Codes used to value this component include independent city codes for the states of Maryland, Missouri, Nevada, Virginia, and division codes for the state of Alaska.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 0 | WATER_RELATED DATA | 1600 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY N/A KEY N/A DATA TYPE RG

PICTURE N/A LARGEST OR LONGEST VALUE N/A

Data Values - Information about water-related data that are collected and made available by the organization. Examples of water-related data include meteorological, water use, land use, oceanographic, agricultural, demographic, and other types of data. Water-related data are defined as any data having significance to users of water data or to those conducting water-resource projects or investigations.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1600 | PARAMETER_CODE | 1601 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY Yes DATA TYPE Name

PICTURE X(8) LARGEST OR LONGEST VALUE 99999999

Data Values - This component contains an eight-character code which identifies the type of water-related data available.

General Description - The purpose of this component is to identify the individual types of water-related data that may be available from the organization. A different parameter code is assigned to each major category or subcategory of water-related data identified. A complete list of all codes assigned may be obtained from: National Water Data Exchange, U.S. Geological Survey, 421 National Center, Reston, Virginia 22092.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1600 | BEGIN_YEAR | 1602 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Integer

PICTURE 9(4) LARGEST OR LONGEST VALUE Current Year

Data Values - This component contains a four-digit numeric value identifying the year that the water-related data being reported was first collected by the organization.

General Description - This component identifies the calendar year in which the organization first began to collect the water-related data that are being made available.

| 1600 | END_YEAR | 1603 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Integer

PICTURE 9(4) LARGEST OR LONGEST VALUE Current Year

Data Values - This component contains a four-digit numeric value identifying the year that data-collection activities for the water-related data being reported were ceased. If the organization is currently collecting the water-related data reported, this component is not valued.

General Description - This component identifies the calendar year in which the organization discontinued collection of the water-related data being reported. If, at a future date, the collection of the water-related data is resumed, the former end date is deleted.

| 1600 | NUMBER_OF_SITES | 1604 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Integer

PICTURE 9(7) LARGEST OR LONGEST VALUE 9,999,999

Data Values - This is the total number of sites, if applicable, at which the reported water-related data are, or have been, collected by the organization.

General Description - The purpose of this component is to provide information on the number of sites at which the organization has the reported water-related data reported available. Some types of water-related data are collected on an areal or nonpoint source basis. In these cases, this component will not be valued.

| 1600 | NUM_OBSERVATIONS | 1605 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Integer

PICTURE 9(8) LARGEST OR LONGEST VALUE 99,999,999

Data Values - This is the total number of occurrences or observations, if applicable, for which the reported water-related data are, or have been, collected and are available.

General Description - Many types of water-related data are collected on an areal basis and the number-of-sites component (component 1604) is not applicable. The number of occurrences or observations of these data may, then, be reported to indicate the volume of data available to the user.

NAWDEX

WATER DATA SOURCES DIRECTORY

DATA DICTIONARY

| 1600 | GEOGRAPHIC AREA | 1606 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(1) LARGEST OR LONGEST VALUE S

Data Values - This component contains a one-character alphabetic code that describes the geographic area encompassed by the water-related data reported and available.

General Description:

| Code | Meaning |
|---|---|
| A | Multicounty - Two or more counties, all in the same state but not encompassing the entire state. |
| C | One County - All the data available are for a single county. |
| I | MultiCountry/International - Data from more than one country are available. |
| M | Multistate/Province - Data from more than one state or province are available, and all data are for a single country. |
| N | Nationwide - The available data span an entire country and are limited to that single country. |
| S | Statewide - The available data span an entire state or province and are limited to that single state or province. |

| 1600 | OBS_FREQUENCY | 1607 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(1) LARGEST OR LONGEST VALUE Z

Data Values - This component contains a one-character alphabetic code that best describes the frequency at which the water-related data reported are collected or measured

General Description:

| Code | Frequency |
|---|---|
| A | Annual (Once per year) |
| B | Other periodic (Less often than once per year) |
| C | Continuous, Year-round - Nonrecorder |
| D | Continuous, Seasonal - Nonrecorder |
| E | Eliminated Activity - Data are no longer being collected |
| I | Continuous, Year-round - Recorder used |
| J | Continuous, Seasonal - Recorder used |
| M | Monthly, Year-round |
| N | Monthly, Seasonal |
| O | Daily, Year-round |
| P | Daily, Seasonal |
| Q | Quarterly, Year-round |
| R | Quarterly, Seasonal |
| S | Semiannual (Twice per year) |
| U | Unique (One-time only) measurement |
| W | Weekly, Year-round |
| X | Weekly, Seasonal |
| Y | Seasonal (No time period specified) |
| Z | Data collected at an irregular or unspecified frequency |

| 1600 | STORAGE_MEDIA | 1608 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDATORY No KEY No DATA TYPE Name

PICTURE X(1) LARGEST OR LONGEST VALUE P

Data Values - This component contains a one-character alphabetic code that describes the type(s) of media used to store the water-related data reported.

General Description:

| Code | Meaning |
|---|---|
| C | Computer recognizable - The data are stored on media that can be read by a computer. This might be punched cards, paper tape, magnetic tape, magnetic disk, drum, or some similar device. |
| D | Computer and published - Data are stored in both computer recognizable and published form. |
| E | Computer and microform - Data are stored in both computer recognizable and microform formats. |
| F | Computer, published, and microform - Data are stored in computer recognizable, published, and microform formats. |
| G | Published and microform - Data are stored in both published and microform formats. |
| M | Microform - Printed data which are stored in reduced size on roll microfilm, microfiche, aperture cards, or some other type of microfilm. |
| P | Published - The data are available in printed form. |

| 1600 | OTHR_SOURCE | 1610 |
|---|---|---|
| IN RG | COMPONENT NAME | COMPONENT NUMBER |

MANDTORY No KEY No DATA TYPE Name

PICTURE X(5) LARGEST OR LONGEST VALUE 5 characters

Data Values - This the NAWDEX Agency Code that identifies another organization that is a source of the organization's water-related data.

General Description - A complete description of the NAWDEX Agnecy Code may be found in this dictionary under component number 1. This is the same code that is also stored in Component 502 (OT_SRC_AGCY). If this component is valued, Repeating Group 500 (OTHR_SOURCE) must also be valued.

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