Scientific and Technical, Spatial, and Bibliographic Data Bases of the U.S. Geological Survey, 1979

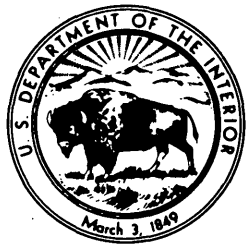
Geological Survey Circular 817

Scientific and Technical, Spatial, and Bibliographic Data Bases of the U.S. Geological Survey, 1979

Compiled by the Office of the Data Base Administrator

Geological Survey Circular 817

United States Department of the Interior
CECIL D. ANDRUS, *Secretary*



Geological Survey
H. William Menard, *Director*

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Suggestions for improving the usefulness of any future editions of the publication will be appreciated. Write:

Office of the Data Base Administrator
U.S. Geological Survey
115 National Center
Reston, VA 22092

Scientific and Technical, Spatial, and Bibliographic Data Bases of the U.S. Geological Survey, 1979

Compiled by the Office of the Data Base Administrator

INTRODUCTION

This circular is the result of a comprehensive inventory of the machine-readable scientific and technical, spatial, and bibliographic data bases of the U.S. Geological Survey. The data bases described are either currently in operation or are under development. They are sets of data that are systematically collected and maintained and are used or can be used by more than one person.

This inventory, which will be updated periodically, will ultimately be made available by means of an interactive storage and retrieval computer system for browsing, querying, searching, and analysis. It will provide an extremely useful reference tool for members of the U.S. Geological Survey, as well as for outside individuals and organizations. The inventory will also provide a foundation for a next productive step in information management—the development of a Data Element Dictionary.

The Office of the Data Base Administrator wishes to thank the members of the Data Coordinating Committee and the contact persons in the Survey's Divisions for their extensive support and cooperation in compiling this inventory.

The data bases are described by the following categories of information:

Name. A short descriptive name or identifying title of the data base.

Acronym. A short name or the abbreviation of the title identified in the Name field.

Data Base Type. An indication of the type of data in the data base—either Spatial, Scientific and Technical, Bibliographic, or Mission Support.

System that Accesses the Data Base. The name of the computer system that uses or accesses the data base or file.

Division/Office. The U.S.G.S. Division or Office responsible for the data base.

Contact Person. The name of the U.S.G.S. contact person who can answer questions concerning the data base.

Contact Telephone. The telephone number of the Contact Person.

Contact Address. The address of the Contact Person in Bureau, Division, or Office; Program or Branch; Post Office Box Number and (or) Mail Stop Number; City; State; and Zip Code order.

Subject Coverage. The general subject coverage of the data in the data base.

Keywords. Keywords or descriptors used to describe the data in the data base.

Geographical Coverage. A general description of the geographical areas covered or represented by data in the data base.

Spatial Data Types. A descriptive term such as Point, Line, Polygon, Grid, or other term that identifies the type of spatial data in the data base.

Coordinate System. The identification of the coordinate system(s) used in spatial data bases.

Sources of Data in Data Base. The internal or external individual or organizational source of the data in the data base.

Time Span of Data Collected. The period of time during which data collection took place.

Status of Data Base. An indication of the present status of the data base— either Operational or Under Development.

Users. The known or intended individual or organizational users of the data in the data base or recipients of information products of the data base.

Data Availability. An indication of the availability or accessibility of the data base.

Output Media. The media used for output of information products of the data base.

Storage Media. The media on which the data base resides or is stored.

Size of Data Base. An indication of the volume of data in the data base, measured in records, characters per record, and (or) bytes.

Computer Residence. A code identifying the manufacturer of the computer on which the data base resides, or will reside, accompanied by the location of the computer. The following codes are used:

AMD, Amdahl;
IBM, International Business Machines;
UNI, Univac;
CDC, Control Data Corporation;
VAR, Varian;
BUR, Burroughs;
HP, Hewlett Packard;
DEC, Digital Equipment Corporation;
TI, Texas Instruments;
HIS, Honeywell;
SEL, Systems Engineering Laboratory.

Languages. The software language(s) and (or) data base management system(s) used to develop and (or) access the data in the data base.

Abstract. A brief description of the data base.

Documentation. A bibliographic citation of documentation available, a reference concerning the data base, or an indication that no documentation is available.

Comments. General comments concerning the data base or amplifying information not covered in other categories.

Date of This Information. October 1979, during which this information was last verified.

INDEXES

In the main body of the catalogue, the data bases have been sequentially ordered by:

- Division/Office (listed alphabetically)
- Data Base Name within Division/Office (listed alphabetically)

In addition, a unique ascending sequence number has been assigned to each data base. This number is placed at the beginning of the description of the data base.

Indexes, cross-referenced by the ascending sequence number, are listed in the back of the catalogue and sequentially order the data bases by:

- Acronyms (listed alphabetically)
- Contact Persons (listed alphabetically by last name)
- Geographic Coverage (listed alphabetically)
- Keywords (listed alphabetically)
- Names of Data Bases (listed alphabetically)

LIST OF DATA BASES

COMPUTER CENTER DIVISION

1

Name FLAGSTAFF LANDSAT TAPE LIST
Acronym LANDSAT TAPE_LIB
Data Base Type
Scientific and Technical
Division/Office
Computer Center Division
Contact Person Lynda B. Sowers
Contact Telephone
(602) 779-3311 Ext 1312
(FTS) 8-261-1312
Contact Address
U.S. Geological Survey
Flagstaff Computation Branch
Computer Center Division
2255 North Gemini Drive
Flagstaff, AZ 86001
Subject Coverage
Bands 4, 5, 6 and 7 of LANDSAT satellite coverage.
Keywords
Image Description; LANDSAT Images; Tape Library
Geographical Coverage
Worldwide; Area description included in data file
Sources of Data in Data Base
List of all LANDSAT tapes in Flagstaff; Input by tape librarian at Flagstaff
Time Span of Data Collected
1971 to the present
Status of Data Base Operational
Users
Image Processing Facility, Flagstaff Computation Branch
Data Availability
Available for unlimited access
Output Media Interactive access
Storage Media Disc
Size of Data Base
More than 2,000 records; one or two 132-character lines per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN; MULTICS
Abstract
The Flagstaff LANDSAT Tape List identifies LANDSAT tapes available in Flagstaff. Each record includes the following information about each tape: tape number, scene identification, area description, sun angle, quality of image, track, bits per inch, center latitude and longitude, exposure date, number and files per tape, path and row of image. Access to data is allowed by program (lib_List) or by MULTICS print command.
Documentation None
Date of This Information October 1979

CONSERVATION DIVISION

2

Name AUTOMATED BASE MAPS
Acronym BASEMAP
Data Base Type Spatial
Division/Office Conservation Division
Contact Person Jim W. Eberhardt
Contact Telephone
(213) 688-5780 (FTS) 798-5780
Contact Address
U.S. Geological Survey
Conservation Division
District Geologist
1340 W. Sixth Street, Room 160
Los Angeles, CA 90012
Subject Coverage
Cartographic data-base and mapping system, including geologic and geophysical data
Keywords
Base Maps; Cartographic; Geologic Mapping; Mapping; OCS Data; Spatial
Geographical Coverage
State of California
Spatial Data Type Grid
Coordinate System
Latitude/Longitude; UTM Northings and Eastings; State plane coordinates
Sources of Data in Data Base
BLM: Three-mile limit, lease tract boundaries; Petroleum companies: Well data; Geophysical companies: Seismic data.

Time Span of Data Collected
1968 to the present
Status of Data Base Under development
Users
USGS, Conservation Division, Los Angeles
Data Availability
Available to Conservation Division personnel only.
Output Media
Interactive access; Magnetic tape
Storage Media Disc
Computer Residence
HIS MULTICS Menlo Park, CA
Languages FORTRAN; DISSPLA
Abstract
BASEMAP will be a cartographic data-base and mapping system for base maps used for lease-tract evaluation for any area. The maps will be on a scale of 1:48,000, 1:96,000, or variable from 1:200 to 1:1,500,000. Users may select UTM, Lambert, or geographic position projections. There will be three basis types of maps: (a) geologic, (b) geophysical, and (c) bottom sample. All base maps will contain the shore line, three-mile limit line, and latitude-longitude tickmarks. The geophysical maps will contain all seismic lines, shot point locations, and OCS lease-tract boundaries within the map window, or time, depth, or velocity data selected from the geophysical data base. Geologic maps will contain platform and well locations, reservoirs, fields, and other data. The bottom-sample maps contain locations of bottom samples taken within the map area.
Documentation
Limited documentation is available on the proposed system design.
Fisher, Susan, System Proposal Automation of OCS Base Maps, 1978
Date of This Information October 1979

3

Name BIDDING SYSTEM FILES
Acronym BS
Data Base Type
Scientific and Technical
System That Accesses Data Base
COMPETITIVE BIDDING HISTORY SYSTEM
Division/Office Conservation Division
Contact Person Bruce A. Blakley
Contact Telephone
(415) 323-8111 Ext 2884
(FTS) 467-2884
Contact Address
U.S. Geological Survey
Conservation Division
Office of the Area Geothermal Supervisor
MS 92
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
History of geothermal competitive bidding
Keywords
Competitive Geothermal Leasing; Date of Sale; KGRA Identification Code; Known Geothermal Resource Area; Tract Number
Geographical Coverage United States
Spatial Data Type
Tract number; Township and Range
Sources of Data in Data Base
Public records from all Bureau of Land Management State offices
Time Span of Data Collected
1974 to the present
Status of Data Base Operational
Users
Office of the Area Geothermal Supervisor
Data Availability
Available for limited access; Output products are available to other government agencies.
Output Media Computer printout
Storage Media Disc
Size of Data Base
1,250 records; 75,000 characters
Computer Residence
DATAPOINT 5500 Palo Alto, CA
Languages DATABUS
Abstract
The Bidding System Files (BS) represent the only nationwide data-retrieval system for Federal competitive-bidding and leasing information. BS consists of four

interrelating files and the information contained in these files includes the Known Geothermal Resource Area (KGRA), identification code, modified legal description, date of the lease sale, tract number, acreage offered, successful bidder and bid, grandfather rights, reoffers, and unsuccessful bidders and bids. A series of up-date programs perform all processing tasks needed to build, operate, and maintain the data files. Data-retrieval programs are available to print summaries of the information.

Documentation
Butler, Kathleen, Program Documentation for Bidding System Files, 1979.

Date of This Information October 1979

4

Name
BOREHOLE AND COMPLETION FILE, GULF OF MEXICO--OCS

Acronym BHCP

Data Base Type
Scientific and Technical

System That Accesses Data Base
WELL HISTORY

Division/Office Conservation Division

Contact Person Joseph J. Chedotal

Contact Telephone
(504) 837-4720 (FTS) 680-9395

Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 7944
Metairie, LA 70010

Subject Coverage Well data

Keywords
Gas Lease; Natural Gas; OCS Lease Evaluation; Oil; Oil and Gas Operatons; Oil Lease; Petroleum; Well Drilling and Boring

Geographical Coverage Gulf of Mexico

Spatial Data Type
Lease number; Departures from lease line

Sources of Data in Data Base
OCS Operators send in DI form 9-330, Well Completion Report and DI form 9-331, Sundry Notice.

Time Span of Data Collected
1948 to the present

Status of Data Base Operational

Users Gulf of Mexico Region

Data Availability
Summaries are available upon written request. Details are available only to Conservation Division personnel.

Output Media
Magnetic tape; Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base
40,000 records; 90 characters per record

Computer Residence
IBM 370/155 Reston, VA

Languages PL/1

Abstract
Contains borehole and completion information about each well in the Gulf of Mexico. Some of the data elements are field name, lease number, well name, and operator. For each borehole there are total depth, date total depth reached, and elevation. For each completion there are date of completion, perforation interval, type of completion, top production horizon, and reservoir name.

Documentation
Chedotal, Joseph J., Well History System, July 1978

Date of This Information October 1979

5

Name CLASSIFIED LAND

Acronym CL

Data Base Type Spatial

Division/Office Conservation Division

Contact Person Loi O. Moe

Contact Telephone
(503) 231-6812 (FTS) 429-6812

Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 2967
Portland, OR 97208

Subject Coverage
Temporary power-site reserves; Power-site reserves; Power-site

classifications; Water-power designations; Indian power-site reserves; Reservoir-site reserves and Federal power projects; Modifications; Interpretations; Revocations; and Cancellations

Keywords
Federal Power Projects; Power-Site Cancellations; Power-Site Classifications; Power-Site Reserves; Power-Site Restorations; Subsequent Actions; Waterpower Designations; Withdrawals

Geographical Coverage
U.S. Geological Survey's Western Region States: Alaska, Washington, Oregon, California, Idaho, Nevada, and Arizona

Spatial Data Type Polygon

Coordinate System
Public Land Survey (Section, Township, and Range)

Sources of Data in Data Base
Area Hydraulic Engineer office records that are copies of original land orders and subsequent changes bound in volumes by States or filed by type of action by State or river basin

Time Span of Data Collected
1910 to 1978

Status of Data Base Under development

Users
Offices of area and district hydraulic engineers

Data Availability
Available for limited access

Output Media Interactive access

Storage Media Disc

Size of Data Base 3,000,000 bytes

Computer Residence
HIS MULTICS Menlo Park, CA

Languages MRDS; PL/1; LINUS

Abstract
Federal lands that have been classified by the USGS since March 3, 1879 (20 Stat. 394-the Organic Act) for potential water-resource development in the future and Federal Power Project lands withdrawn by virtue of application to the Federal Energy Regulatory Commission under the Federal Power Act are recorded. Original areas withdrawn have been subsequently affected by other actions, and the files reflect the current status of the classified lands. Land lists by aliquot parts and land orders with acreage totals will be retrievable as necessary for reports to other agencies or for review of outstanding acreages by river basin.

Documentation
USGS formal classification records bound in volumes by States but not formally published

Comments
This data base will eventually be cross-referenced to our Water Resource Sites Inventory data base for determination of which sites are to be withdrawn and acreages within each potential site.

Date of This Information October 1979

6

Name
COMPUTERIZED ONSHORE MONTHLY ENGINEERING REPORT

Acronym COMER

Data Base Type
Scientific and Technical

Division/Office
Conservation Division

Contact Person
Eddie R. Wyatt

Contact Telephone
(703) 860-7535 (FTS) 928-7535

Contact Address
U.S. Geological Survey
Conservation Division
MS 650
Reston, VA 22092

Subject Coverage
Unit agreements; Lease sale; Lease and well status; Inspections; Applications; Environmental analysis

Keywords
Gas Lease; Natural Gas; Oil; Oil and Gas Operations; Oil Lease; Petroleum; Petroleum Industry; Water Pollution; Well Drilling

Geographical Coverage
Conterminous United States; Alaska

Spatial Data Type Place name

Sources of Data in Data Base
Conservation Division Onshore Oil and Gas Area and District Offices
Time Span of Data Collected
1976 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Headquarters and Field Offices of the Conservation Division
Data Availability
Selected information is available on written request. If request is significant, a fee may be charged for the service.
Output Media
Interactive access; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base
10,000 variable-length records
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY, PL/1, FORTRAN
Abstract
COMER contains basic information for administering oil and gas operations on Federal and Indian onshore oil and gas leases. There is information on unit agreements, communization agreements, lease activities, well activities, field operations, applications for a permit to conduct operations, and environmental analysis activities.
Documentation
Ellsworth, Trinh, COMER, July 1977
Date of This Information October 1979

7

Name EARTHQUAKE DATA RETRIEVAL
Acronym QUAKES
Data Base Type Spatial
Division/Office Conservation Division
Contact Person Jim W. Eberhardt
Contact Telephone
(213) 688-5780 (FTS) 798-5780
Contact Address
U.S. Geological Survey
District Geologist
Conservation Division
1340 W. Sixth Street, Suite 160
Los Angeles, CA 90017
Subject Coverage Earthquake data
Keywords Earthquakes; Seismicity
Geographical Coverage
Arizona, California, Idaho, Nevada, Oregon, Utah, Washington, West Coast Offshore
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
California Division of Mines and Geology; California Institute of Technology; U.S. Geological Survey, Geologic Division
Time Span of Data Collected
1900 to 1978
Status of Data Base Operational
Users
USGS Conservation Division, Los Angeles
Data Availability
Available to USGS personnel only.
Output Media Interactive access
Storage Media Magnetic tape
Size of Data Base
3,000,000 characters
Computer Residence
HIS MULTICS Menlo Park, CA
Languages MULTITRIEVE
Abstract
The earthquake data consists of three tapes from USGS Geologic Division, California Division of Mines and Geology, and California Institue of Technology. The data is accessable using the MULTITRIEVE software package. The information on each tape includes date, time, location, magnitude, and depth. There is additional data, but this is variable depending on the origin of the tape. The user's guide explains the data format for each tape.
Documentation
J. Vinton, Earthquake Retrieval User's Guide
Date of This Information October 1979

8

Name
FIELD AND RESERVOIR RESERVE ESTIMATES, GULF OF MEXICO--OCS
Acronym FRRE

Data Base Type
Scientific and Technical
Division/Office Conservation Division
Contact Person Joseph J. Chedotal
Contact Telephone
(504) 837-4720 (FTS) 680-9395
Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 7944
Metairie, LA 70010
Subject Coverage
Reserves by reservoir
Keywords
Field Reserves; Natural Gas; Oil; Oil and Gas Reservoirs; Petroleum; Petroleum Reserves
Geographical Coverage Gulf of Mexico
Spatial Data Type Lease Number
Coordinate System
Lease number can be converted to X,Y coordinates.
Sources of Data in Data Base
Reserve studies of the Gulf of Mexico
Time Span of Data Collected
1950 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Conservation Division, Gulf of Mexico Region
Data Availability
The detailed data is proprietary and available to Conservation Division personnel only. Area summaries of the data are published in open-file reports, which are available in the public records room.
Output Media
Interactive access; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base
7,000 records, 344 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages COBOL
Abstract
Contains reserve estimates and cumulative production data for each reservoir in the Gulf of Mexico. Some of the data elements are area, gas and oil ratios, recovery factors, in-place reserves, geologic age, discovery data, number of wells, porosity, and gravity.
Documentation
Borne, Michael, General System Description for Field and Reservoir Reserve Estimates, May 1979; Borne, Michael, Technical Manual for Field and Reservoir Reserve Estimates, May 1978
Date of This Information October 1979

9

Name
GEOTHERMAL APPLICATIONS AND LEASE FILES
Acronym GAAL
Data Base Type Scientific and Technical
System That Accesses Data Base
GEOTHERMAL APPLICATIONS AND LEASE RECORDS SYSTEM
Division/Office Conservation Division
Contact Person Bruce A. Blakley
Contact Telephone
(415) 323-8111 Ext 2884
(FTS) 467-2884
Contact Address
U.S. Geological Survey
Conservation Division
Office of the Area Geothermal Supervisor
MS 92
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Competitive, noncompetitive, and Indian leases and noncompetitive applications
Keywords
Applications; Decisions; Geothermal Leasing Activity; Leases
Geographical Coverage Nationwide
Spatial Data Type Polygon
Coordinate System
Public Land Survey (Section, Township and Range)
Sources of Data in Data Base
Public records from all Bureau of Land Management State offices

Time Span of Data Collected
1974 to the present
Status of Data Base Operational
Users
Office of the area Geothermal Supervisor
Data Availability
Available for limited access; Output products are available to other Government agencies.
Output Media Computer printout
Storage Media Disc
Size of Data Base
27,500 records; 2,840,000 characters
Computer Residence
DATAPOINT 5500 Palo Alto, CA
Languages DATABUS
Abstract
The Geothermal Applications and Lease (GAAL) Files represent the only nationwide data-retrieval system for Federal competitive and noncompetitive geothermal leasing information. GAAL consists of three interrelating files, and the information contained in the files includes serial register number, date of application, surface-managing agency, county, modified legal description, acreage, actions affecting the application, and the applicant's identification code. A series of update programs perform all processing tasks needed to build, operate, and maintain the data files. Data-retrieval programs are available to print summaries of the information.
Documentation
In-house user-oriented documentation; Butler, Kathleen, Program Documentation for Geothermal Application and Lease Records System, 1978.
Date of This Information October 1979

10

Name
HIGH RESOLUTION SEISMIC DATA, GULF OF MEXICO
Acronym HIRESGOM
Data Base Type Spatial
Division/Office
Conservation Division
Contact Person Latinus E. Boylston
Contact Telephone
(504) 837-4720 (FTS) 680-9333
Contact Address
U.S. Geological Survey
Conservation Division
Gulf of Mexico Region
P.O. Box 7944
Metairie, LA 70011
Subject Coverage
High resolution seismic data
Keywords
Geophysics; High Resolution Seismic Hazards Studies; OCS Lease Evaluation; OCS Lease Sales--Gulf of Mexico; Seismic Studies
Geographical Coverage Gulf of Mexico
Spatial Data Type Line
Coordinate System
Arbitrary X,Y coordinates
Sources of Data in Data Base
Geophysical data contractors
Time Span of Data Collected
1977 to 1978
Status of Data Base Under development
Users
Geophysicists; hazards and evaluation researchers
Data Availability
Contact the National Oceanic and Atmospheric Administration (NOAA) for access to the data:
National Geophysical and Solar-Terrestrial Data Center
NOAA/EDS/NGSDC, Code D-621
Boulder, CO 80303
(303) 499-1000 Ext 6338
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
NOAA has 500 tapes; the Gulf of Mexico Region of the Conservation Division has 1,000 tapes.
Computer Residence
IBM 370/155 Reston, VA
Languages None
Abstract
This data file consists of contractor-supplied 800 BPI nine-track magnetic tapes of high resolution geophysical data acquired by the U.S. Geological

Survey in support of hazards studies and lease sale activities in the Gulf of Mexico. Magnetic tapes are the original field data tapes generated by the contractors in the performance of the data acquisition process.

Documentation

National Geophysical and Solar-Terrestrial Data Center, 1977, The marine geophysical data exchange Format-'MGD77', 18 p.

Comments

The seismic and navigational data are available in the Marine Geophysical Data Exchange Format--MGD77.

Date of This Information October 1979

11

Name

LEASE DATA FILE--GULF OF MEXICO OCS

Acronym LEASE

Data Base Type

Scientific and Technical

Division/Office Conservation Division

Contact Person Jack L. Morrison

Contact Telephone

(504) 837-4720 (FTS) 680-9395

Contact Address

U.S. Geological Survey
Conservation Division
P.O. Box 7944
Metairie, LA 70010

Subject Coverage

Basic lease-hold information and data on all oil, gas, salt, and sulfur leases in the Gulf of Mexico Outer Continental Shelf (OCS)

Keywords

Gas Lease; Natural Gas; OCS Leases--Gulf of Mexico; Oil Lease; Petroleum; Petroleum Industry; Salt Lease; Sulfur Lease

Geographical Coverage

Gulf of Mexico--Outer Continental Shelf--in Federal Waters

Spatial Data Type

Bureau of Land Management (BLM) Block Number

Sources of Data in Data Base

Gulf of Mexico OCS lease-hold information and data from the Bureau of Land Management and the U.S. Geological Survey

Time Span of Data Collected

1945 to the present

Status of Data Base Operational

Users

Conservation Division, Gulf of Mexico Region; Conservation Division, Reston; Other Federal agencies; The oil and gas industry; Consultants

Data Availability

Written requests will be answered, but some data is confidential and cannot be released. Answers will be provided on paper or in machine-readable form.

Output Media

Interactive access; Magnetic tape; Batch computer printout; Punched cards

Storage Media Magnetic tape; Disc

Size of Data Base

3,514 records; 2,800,000 characters

Computer Residence

IBM 370/155 Reston, VA

Language

GIPSY

Abstract

The file contains information about the operation of oil, gas, salt, and sulfur leases in the Gulf of Mexico. As soon as a lease sale has been completed, information about the new lease is added to the file. New information about current leases is added each week. Some of the data elements in the file identify sale number, current status, standard operating procedures, owners of a working interest, percentage of ownership, wells drilled, exploratory wells drilled, development wells drilled, area, block, date of first production, and number of platforms.

Documentation

Available from contact above

Date of This Information October 1979

12

Name LEASE PRODUCTION AND REVENUE
Acronym LPR
Data Base Type Spatial
Division/Office Conservation Division
Contact Person John Lohrenz
Contact Telephone
(303) 234-5453 (FTS) 234-5453
Contact Address
U.S. Geological Survey
Conservation Division
Applied Research and Analysis Section
Building 85, Denver Federal Center
Denver, CO 80225
Subject Coverage
Mineral lease bidding and production data
Keywords
Bidding; Leases; Minerals; Production; Revenue
Geographical Coverage
Onshore and offshore Federal mineral leases
Spatial Data Type Polygon
Coordinate System
Arbitrary X,Y coordinates
Sources of Data in Data Base
USGS files publicly available
Time Span of Data Collected
1954 to 1978
Status of Data Base Operational
Users
Department of Energy; Department of the Interior; Federal Trade Commission; Non-Government organizations and companies
Data Availability
Available for unlimited access
Output Media Magnetic tape
Storage Media Disc
Size of Data Base
5,000,000 characters
Computer Residence
IBM 370/155 Reston, VA; CDC Los Alamos Scientific Laboratory, Los Alamos, NM; UNI Computer Sciences Corporation, Infonet
Languages FORTRAN IV
Abstract
Data base contains the quantitative information regarding offerings by bidders for Federal mineral leases and all production and revenue by year by individual lease. There are data elements for date of sale, State, location of lease, acreage of lease, date of relinquishment, bid, owner of bid, annual rents paid, annual production, and royalty paid.
Documentation
Applied Research and Analysis Section, LPR-5/10 Data Base Documentation, 1979
Date of This Information October 1979

13

Name
LEASE SALE DATA FILE--GULF OF MEXICO OCS
Acronym LSALE
Data Base Type
Scientific and Technical
Division/Office
Conservation Division
Contact Person Jack L. Morrison
Contact Telephone
(504) 837-4720 (FTS) 680-9395
Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 7944
Metairie, LA 70010
Subject Coverage
Lease sale information and data on Gulf of Mexico OCS lease sales since October 1954
Keywords
Natural Gas; OCS Bidding; OCS Bonuses; OCS Lease Sales--Gulf of Mexico; Petroleum; Petroleum Industry
Geographical Coverage
Gulf of Mexico--Outer Continental Shelf
Sources of Data in Data Base
Gulf of Mexico lease sale information and data from the Bureau of Land Management and the U.S. Geological Survey
Time Span of Data Collected
1954 to the present
Status of Data Base Operational

Users
Conservation Division, Gulf of Mexico Region; Conservation Division, Reston
Data Availability
Data is available to anyone who requests it in writing. The data requested will be provided on paper or in machine-readable form.
Output Media
Interactive access; Magnetic tape; Batch computer printout; Microform; Punched card
Size of Data Base
41 records; 1,000 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
Shortly after a lease sale, the Bureau of Land Management sends data on the sale to the Gulf of Mexico Region of the Conservation Division where it is put into this file. None of this data is proprietary. Some of the data elements in the file are sale date, sale number, State, number of acres, number of bids, number of acres receiving bids, total amount of all bids, tracts offered, high bid, low bid, and tracts sold.
Documentation None
Date of This Information October 1979

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Name MICROFILM DATA FILE
Acronym MICRO FILE
Data Base Type
Scientific and Technical
System That Accesses Data Base
MICROFILM
Division/Office Conservation Division
Contact Person Latinus E. Boylston
Contact Telephone
(504) 837-4720 (FTS) 680-9333
Contact Address
U.S. Geological Survey
Conservation Division
Gulf of Mexico Region
P.O. Box 7944
Metairie, LA 70011
Subject Coverage
Contains cross-reference data for microfilm images of proprietary data
Keywords
OCS Lease Evaluation; OCS Lease Sales--Gulf of Mexico; Seismic Studies; Velocity Data
Geographical Coverage
Gulf of Mexico Outer Continental Shelf
Spatial Data Type Point
Coordinate System
Arbitrary X,Y coordinates
Sources of Data in Data Base
Geophysical data contractors
Time Span of Data Collected
1971 to the present
Status of Data Base Operational
Users Geophysicists; Technicians
Data Availability
Available to Conservation Division personnel only because it is proprietary.
Output Media Batch computer printout
Storage Media Disc
Size of Data Base
500,000 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA; Datapoint Metairie, LA
Languages DATASHARE; ASSEMBLY
Abstract
This is an index to a file of velocity data stored on microfilm. There is a record in the system for each data item. A record contains date of microfilming, microfilm roll number, geographic area, type of data, contractor, and Bureau of Land Management (BLM) block number.
Documentation None
Date of This Information October 1979

15

Name MONTE CARLO EVALUATION FILES
Acronym MONT CARL
Data Base Type Spatial
System That Accesses Data Base
MONTE CARLO

Division/Office Conservation Division
Contact Person Latinus E. Boylston
Contact Telephone
(504) 837-4730 (FTS) 680-9333
Contact Address
U.S. Geological Survey
Conservation Division
Gulf of Mexico Region
P.O. Box 7944
Metairie, LA 70011
Subject Coverage
Lease Evaluation--presale and postsale input and output
Keywords
Gas Lease; Natural Gas; OCS Lease Evaluation; OCS Leases--Gulf of Mexico; Oil Lease; Petroleum; Petroleum Industry
Geographical Coverage
Gulf of Mexico
Spatial Data Type
BLM Block Number
Sources of Data in Data Base
Evaluation geologists, engineers, geophysicists, with Bureau of Land Management and Department of the Interior data constraints
Time Span of Data Collected
1971 to the present
Status of Data Base Operational
Users
Bureau of Land Management; Secretary of the Interior; U.S. Geological Survey
Data Availability
Available to Conservation Division personnel only because it is proprietary.
Output Media Batch computer printout
Storage Media Disc
Size of Data Base 21,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV; ASSEMBLY; PL/1
Abstract
The purpose of the Monte Carlo system is to determine the minimum acceptable bid for each tract being offered during an OCS lease sale. The following data is gathered and input: current prices for oil and gas, tract number, transportation costs, pipeline costs, exploration costs, number of wells necessary, water depth, drilling depths, production depths, tax data, and estimated volumes of gas and oil. This data is available for access only during the sale. After that it is put into an archival form on magnetic tape.
Documentation
Akers, Harry, Monte Carlo Documentation Manual, 1974, with revisions
Date of This Information October 1979

16

Name ONSHORE RECORD OF EVENTS
Acronym CORE
Data Base Type
Scientific and Technical
Division/Office Conservation Division
Contact Person Eddie R. Wyatt
Contact Telephone
(703) 860-7535 (FTS) 928-7535
Contact Address
U.S. Geological Survey
Conservation Division
MS 650
Reston, VA 22092
Subject Coverage
Undesirable events on oil and gas leaseholds on lands under supervision
Keywords
Accident; Blowout; Drilling Mud Spill; Fatalities; Fire; Gas Lease; Gas Pipelines; Gas Production; Gas Vented; Injuries; Natural Gas; Oil; Oil and Gas Operations; Oil Lease; Oil Spill; Petroleum; Petroleum Industry; Petroleum Pipelines; Petroleum Production; Petroleum Transportation; Pipelines; Pipeline Transportation; Salt Water Spill; Toxic Fluids Spill; Water Pollution; Well Drilling and Boring
Geographical Coverage
48 conterminous United States and Alaska
Spatial Data Type Polygon
Coordinate System
Public Land Survey (Section, Township, and Range)

Sources of Data in Data Base
Some of the data is submitted by oil and gas operators. Other data is collected during field inspections by the Onshore Oil and Gas field offices of the Conservation Division.
Time Span of Data Collected
1974 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Conservation Division, Deputy Division Chief Onshore,
Data Availability
Selected information is available on written request. If the request requires significant work to answer, a fee may be charged for the work.
Output Media Batch computer printout
Storage Media
Magnetic tape; Punched cards; Disc
Size of Data Base
1,600 records; 200 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY, IRS
Abstract
Reports of spills, fires, accidents, and blowouts on oil and gas onshore leaseholds under U.S.G.S. supervision
Documentation
Nichols, Louise, CORE Program Documentation Manual, 1976
Date of This Information October 1979

17

Name
OUTER CONTINENTAL SHELF (OCS) EVENTS FILE
Acronym EVENTS
Data Base Type
Scientific and Technical
Division/Office Conservation Division
Contact Person Donald A. Giroir
Contact Telephone
(504) 837-4720 Ext 215
(FTS) 680-9353
Contact Address
U.S. Geological Survey
Conservation Division
Area Office for Operations Support
P.O. Box 7944
Metairie, LA 70010
Subject Coverage
Pollution incidents; Injury; Death; Blowout; Oil and gas operations
Keywords
Natural Gas; Oil and Gas Operations; Petroleum; Water Pollution; Well Drilling and Boring
Geographical Coverage Gulf of Mexico
Spatial Data Type
BLM OCS Block Number
Sources of Data in Data Base
Conservation Division District Offices; Lease operators
Time Span of Data Collected
1970 to the present
Status of Data Base Operational
Users
U.S. Department of the Interior; Conservation Division headquarters
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base
1,572 records; 422,214 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
The file contains information about traumatic events that occur on oil and gas platforms in the Gulf of Mexico. An event could be an oil spill, a blowout, a fatality, an injury, a fire, or an explosion. There are data elements for location, operator, type of rig, cause of event, and description of event.
Documentation None
Date of This Information October 1979

18

Name
PIPELINE MANAGEMENT SYSTEM, GULF OF MEXICO--OCS
Acronym PMS

Data Base Type
Scientific and Technical
Division/Office Conservation Division
Contact Person Donald A. Giroir
Contact Telephone
(504) 837-4720 Ext 215
(FTS) 680-9353
Contact Address
U.S. Geological Survey
Conservation Division
Area Office for Operations Support
P.O. Box 7944
Metairie, LA 70010
Subject Coverage
Pipeline Segment Information
Keywords
Gas Pipelines; Natural Gas; Petroleum; Petroleum Pipelines; Petroleum Transportation; Pipelines; Pipeline Transportation; Underwater Pipelines
Geographical Coverage Gulf of Mexico
Spatial Data Type Point; Grid
Sources of Data in Data Base
USGS technicians; Pipeline companies; BLM approvals
Time Span of Data Collected
1976 to the present
Status of Data Base Operational
Users
Congress; Conservation Division; Department of Commerce; Department of the Interior; Federal Trade Commission;
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base
7,113 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages COBOL; IRS
Abstract
The Pipeline Management System (PMS) provides individual identification of pipeline segments through the gathering and storing of segment-related data on pipelines. The system allows for the rapid and accurate retrieval of statistical information in the following categories for all pipelines approved for construction in the Federal waters of the Gulf of Mexico: operator, initiating location, terminating location, size, length, type of product, approval date, and construction date. All pertinent information on each segment is being continuously reviewed and updated.
Documentation None
Date of This Information October 1979

19

Name
PLATFORM INSPECTION SYSTEM--GULF OF MEXICO OCS
Acronym IS
Data Base Type
Scientific and Technical
Division/Office Conservation Division
Contact Person Donald A. Giroir
Contact Telephone
(504) 837-4720 Ext 215
(FTS) 680-9215
Contact Address
U.S. Geological Survey
Conservation Division
Area Office for Operations Support
P.O. Box 7944
Metairie, LA 70010
Subject Coverage
Production-platform inspections and drilling-rig inspections
Keywords
Gas Production; Natural Gas; Petroleum; Petroleum Production
Geographical Coverage
Federal leases in the Gulf of Mexico
Spatial Data Type
BLM OCS Block Number
Sources of Data in Data Base
USGS technicians; Field inspection forms

Time Span of Data Collected
1975 to the present
Status of Data Base Operational
Users U.S. Department of the Interior
Data Availability
The file manager will answer questions about the file and conduct searches of the file.
Output Media Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base
62,146 Inspection Master File records; 160 characters per record; 350,000 History Records (60 characters per record) are added each year.
Computer Residence
IBM 370/155 Reston, VA
Languages COBOL and IRS
Abstract
Contains information gathered during inspections of oil and gas platforms in the Gulf of Mexico. Separate inspections are made of production and drilling operations on the same platforms. There is information about the platform, hours spent inspecting, violations, departures granted, safety device settings and pipelines, well bay operations, production vessels, header systems, fired vessels, and possible items of noncompliance.
Documentation
Gulf of Mexico Region, Conservation Division, Platform Inspection System, 1975, revised 1978, unpublished users guide
Comments
Data base contains settings of various safety devices and equipment and items not in compliance with regulations.
Date of This Information October 1979

20

Name
RESERVOIR FILE, GULF OF MEXICO--OCS
Acronym WSPS
Data Base Type
Scientific and Technical
System That Accesses Data Base
WELL STATUS AND PRODUCTION SYSTEM
Division/Office Conservation Division
Contact Person Joseph J. Chedotal
Contact Telephone
(504) 837-4720 (FTS) 680-9395
Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 7944
Metairie, LA 70010
Subject Coverage
Maximum efficient rates for each reservoir
Keywords
Gas Lease; Natural Gas; Oil; Oil and Gas Operations; Oil Lease; Petroleum
Geographical Coverage
Gulf of Mexico region
Spatial Data Type
Field; Bureau of Land Management (BLM) Block Number
Sources of Data in Data Base
OCS operators submit DI form 9-1866, Request for Maximum Efficient Rate of a Reservoir.
Time Span of Data Collected
The latest six occurrences of the data are kept, so the age of the data varies from a month to two years.
Status of Data Base Operational
Users
U.S. Geological Survey, Conservation Division, Gulf of Mexico Region
Data Availability
Available to the public upon written request
Output Media
Magnetic tape; Batch computer printout
Storage Media
Magnetic tape; Disc; Text
Size of Data Base
6,000 records; 161 characters per record

Computer Residence
IBM 370/155 Reston, VA
Languages COBOL, FORTRAN
Abstract
Contains information about reservoirs in the Gulf of Mexico. There are data elements for field, reservoir, effective date, maximum efficient rate, and reservoir clearance.
Documentation
Chedotal, Joseph J., Well Status and Production System, Sept. 1978
Date of This Information October 1979

21

Name VELOCITY DATA CELLS
Acronym VELCELL
Data Base Type Spatial
System That Accesses Data Base
GEOSCIENCE INTERPRETIVE AID SYSTEM
Division/Office Conservation Division
Contact Person Latinus E. Boylston
Contact Telephone
(504) 837-4720 (FTS) 680-9333
Contact Address
U.S. Geological Survey
Conservation Division
Gulf of Mexico Region
P.O. Box 7944
Metairie, LA 70011
Subject Coverage
Seismic velocity data derived from geophysical surveys
Keywords
Natural Gas; OCS Lease Evaluation; OCS Lease Sales--Gulf of Mexico; Oil; Seismic Studies; Seismic Velocity Data
Geographical Coverage
Scattered OCS data primarily in the Gulf of Mexico
Spatial Data Type Point
Coordinate System
Arbitrary X,Y coordinates
Sources of Data in Data Base
Contract and permit seismic survey data
Time Span of Data Collected
1971 to the present
Status of Data Base Operational
Users
Resource Evaluation Offices of the Conservation Division
Data Availability
Since the data is proprietary, it is available only to Conservation Division Personnel.
Output Media
Interactive access; Magnetic tape; Batch computer printout; Microform; Punched cards
Storage Media
Magnetic tape; Punched cards; Disc
Size of Data Base
5 million points; 20 million bytes
Computer Residence
IBM 370/155 Reston, VA; HIS MULTICS/Denver, CO; HIS MULTICS/Menlo Park, CA; HIS MULTICS/Reston, VA
Languages FORTRAN IV
Abstract
The current data is on disc, and the historical data is on tape. The contents are various velocity representations of the seismic wavelet as derived from data supplied by contractor and permittee (seismic signal). These files are processed in a computative and analytical fashion either by batch or interactive means to assist in the lease evaluation and management technical study at the technical-specialist level.
Documentation
Geoscience Interpretive Aid System (GIAS) Documentation Manual
Date of This Information October 1979

22

Name WATER RESOURCE SITE INVENTORY
Acronym WSRI
Data Base Type Spatial
Division/Office Conservation Division
Contact Person Loi O. Moe

Contact Telephone
(503) 231-6812 (FTS) 429-6812
Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 2967
Portland, OR 97208
Subject Coverage
Water-resource sites: Hydroelectric, developed and undeveloped; Pumped-storage power, developed and undeveloped; Reservoirs, developed and undeveloped
Keywords
Power Potential; Powersites; Reservoir Sites; River Basin; Site Inventory; Storage Volumes
Geographical Coverage
Western Region States: Alaska, Washington, Oregon, California, Idaho, Nevada, and Arizona
Spatial Data Type Polygon
Coordinate System
Public Land Survey (Section, Township, and Range)
Sources of Data in Data Base
USGS engineers' original studies; literature search of publications of other agencies or corporations
Time Span of Data Collected
1910 to 1978
Status of Data Base Under Development
Users
Conservation Division, offices of area and district hydraulic engineers
Data Availability
Available for limited access
Output Media Interactive access
Storage Media Disc
Size of Data Base 3,000,000 bytes
Computer Residence
HIS MULTICS Menlo Park, CA
Languages MRDS; Pl/1; LINUS
Abstract
The Water Resource Site Inventory (WRSI) will provide a ready access to information on developed and potential power and reservoir sites for the Western Region. It will be possible to display these sites in various ways to furnish data for energy studies and land-use plans. Some of the information on sites will include location, size, altitudes, river basin, State, and purpose. It will be possible to relate the site information to the public lands affected, and a further refinement will allow a display by formal power- or reservoir-site withdrawal. In this way the forthcoming review of withdrawals required by the Bureau of Land Management by the FLPMA of October 1976 will be expedited. Comparisons of resource values of the river basins will be possible by a printout of potential power and storage values for each basin.
Documentation
No one source for the data exists. There have been reports published that include site information used in making the WRSI, but these are very numerous and are yet minor in number as sources for the data base. Most of the data has been generated basin by basin with no published report.
Comments
This data base will probably be supplemented by the U.S. Army Corps of Engineers National Hydropower Inventory and will include FERC site lists but will be updated constantly as new sites are found or proposed. Eventually it will be cross-referenced to the Classified Lands data base.
Date of This Information October 1979

23

Name WELL FILE
Acronym WF
Data Base Type
Scientific and Technical

Division/Office Conservation Division
Contact Person Steve Prensky
Contact Telephone
(213) 688-5780 (FTS) 798-5780
Contact Address
U.S. Geological Survey
Conservation Division
District Geologist
1340 W. Sixth Street, Suite 160
Los Angeles, CA 90017
Subject Coverage
Directional Survey--Offshore (OCS); Onshore (Limited)
Keywords
Directional Survey; Directional Wells; Gas Lease; Natural Gas; OCS Data; Oil; Oil Lease; Petroleum Industry; Well Survey
Geographical Coverage
Southern California
Spatial Data Type Other--Well Name
Sources of Data in Data Base
Oil companies--OCS data
Time Span of Data Collected
1968 to the present
Status of Data Base Operational
Users
USGS Conservation Division, Los Angeles
Data Availability
Available to Conservation Disivion personnel only
Output Media
Interactive access
Storage Media Disc
Size of Data Base
550 records; 614,400 characters
Computer Residence
HIS MULTICS Menlo Park, CA
Languages FORTRAN
Abstract
The information in Well File describes directional surveys obtained from wells drilled in the OCS region off California. The files are in a format which is readable to the program WELDEV. The information consists of the company, well name, Kelly Bushing, and well survey. The well survey includes measured depth, average drift angle, and direction of deviation. The program WELDEV will compute true depth at various intervals. There is an option to plot a plan and (or) cross-sectional view of the well.
Documentation None
Date of This Information October 1979

24

Name WELL FILE, GULF OF MEXICO--OCS
Acronym WSPS
Data Base Type
Scientific and Technical
System That Accesses Data Base
WELL STATUS AND PRODUCTION SYSTEM
Division/Office Conservation Division
Contact Person Joseph J. Chedotal
Contact Telephone
(504) 837-4720 (FTS) 680-9395
Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 7944
Metairie, LA 70010
Subject Coverage
Well production, test, and maximum production rates
Keywords
Gas Lease; Gas Production; Natural Gas; Oil; Oil and Gas Operations; Oil Lease; Petroleum; Petroleum Production
Geographical Coverage
Gulf of Mexico
Spatial Data Type
Area; Bureau of Land Management (BLM) Block Number; Lease Number
Coordinate System
UTM Northings and Eastings; Arbitrary X,Y coordinates; Latitude/Longitude
Sources of Data in Data Base
OCS operators send in the following forms: DI 9-152, Monthly Report of Operations; DI 9-1866, Request for a Maximum Efficient Rate of a

Reservoir; DI 9-1867, Request for Well Maximum Production Rate; DI 9-1868, Well Potential Test Report; DI 9-1869, Quarterly Oil Test Report; and DI 9-1870, Semi-annual Gas Test Well Report

Time Span of Data Collected
The data is six months old at the most. Older data has been moved to the Well History Production File, Gulf of Mexico, OCS.

Status of Data Base Operational

Users
U.S. Geological Survey, Conservation Division, Gulf of Mexico Region

Data Availability
Some data is available upon written request. Proprietary data is available to Conservation Division personnel only.

Output Media
Magnetic tape; Batch computer printout

Storage Media
Magnetic tape; Disc; Text

Size of Data Base
12,000 records, 396 characters per record

Computer Residence
IBM 370/155 Reston, VA

Languages COBOL

Abstract
Contains information about well production in the Gulf of Mexico. The data is used to monitor the rate of depletion of a reservoir. After six months the data is moved to the Well History Production File. Some of the data elements are well number, operator, field, reservoir, lease number, maximum production rate, the last six months of production for oil, gas and water, gravity of oil, and last production day.

Documentation
Chedotal, Joseph J., Well Status and Production System, 1978

Date of This Information October 1979

Name
WELL HISTORY PRODUCTION FILE, GULF OF MEXICO--OCS

Acronym WHPR

Data Base Type
Scientific and Technical

System That Accesses Data Base
WELL HISTORY

Division/Office Conservation Division

Contact Person Joseph J. Chedotal

Contact Telephone
(504) 837-4720 (FTS) 680-9395

Contact Address
U.S. Geological Survey
Conservation Division
P.O. Box 7944
Metairie, LA 70010

Subject Coverage
Oil and gas production

Keywords
Gas Production; Natural Gas; Oil; Petroleum; Petroleum Production

Geographical Coverage Gulf of Mexico

Spatial Data Type
Area; Bureau of Land Management (BLM) Block Number; Lease Number

Coordinate System
UTM Northings and Eastings; Arbitrary X,Y coordinates; Latitude/Longitude

Sources of Data in Data Base
The data came from the Well File

Time Span of Data Collected
1948 to the present

Status of Data Base Operational

Users
U.S. Geological Survey, Conservation Division, Gulf of Mexico Region

Data Availability
Some of the detailed data is available to Conservation Division personnel only. Some is available to the public upon written request. Summaries of the data are available to the public in the public records room.

Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base
1,200,000 records; 90 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1; EASYTRIEVE
Abstract
Contains information about well production in the Gulf of Mexico. The data is collected and stored in the Well File for six months. Then it is moved to this file and kept permanently. Some of the data elements are field, lease, operator, well name, date of production, quantity of oil, quantity of gas, quantity of water, gravity, and days produced.
Documentation
Chedotal, Joseph J., Well History System, July 1978
Date of This Information October 1979

GEOLOGIC DIVISION

26

Name A GENERALIZED SAMPLE DATA SYSTEM
Acronym GSDS
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Ted S. Dyman
Contact Telephone
(303) 234-6115 (FTS) 234-6115
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
P.O. Box 25046 MS 971
Denver, CO 80225
Subject Coverage
Well and outcrop sample data; both historical and recent data
Keywords
Data; Geochemical; Geophysical; Lithological; Outcrop Data; Sample Data
Geographical Coverage
Appalachian Basin: New York to Kentucky; eventually to be extended to other basins
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
U.S. Geological Survey projects within the Branch of Oil and Gas Resources
Time Span of Data Collected
1976 to the present
Status of Data Base Under development
Users
U.S. Geological Survey geologists and Department of Energy
Data Availability
Available from the Department of Energy
Output Media Interactive access
Storage Media Magnetic tape
Size of Data Base
5,000 records; 200,000 characters
Computer Residence
HIS MULTICS Denver, CO
Languages FORTRAN IV
Abstract
A Generalized Sample Data System is now being developed by the Branch of Oil and Gas Resources in Denver to store and retrieve a wide variety of geochemical, lithological, paleontological, physical character, structural, and geophysical data generated by the many projects in the Branch. Data is stored in fixed format card image and will be linked to the Well History Control System by unique well number. A retrieval system is being designed to extract data by latitude, longitude, data type, and well number. The system is now in the developmental stage.
Documentation None
Date of This Information October 1979

27

Name AOCS SEISMIC DATA
Acronym AOCSSRD
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Dave J. Taylor
Contact Telephone
(303) 234-5008 (FTS) 234-5008
Contact Address
U.S. Geological Survey
Geologic Division
Oil and Gas Branch
P.O. Box 25046, MS 960
Denver, CO 80225
Subject Coverage
Regional seismic-reflection data coverage
Keywords
Atlantic Outer Continental Shelf; Common Depth Point; Hydrocarbons; Seismic Reflection
Geographical Coverage
Offshore east coast of United States
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
U.S.G.S. marine geologists
Time Span of Data Collected
1970 to the present
Status of Data Base Operational
Users
USGS, Office of Marine Geology, Oil and Gas Branch; Oil companies; Universities
Data Availability
Available for unlimited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
7,000 2,400-foot half-inch and one-inch magnetic tapes
Computer Residence
Phoenix I Denver, CO
Languages FORTRAN IV
Abstract
The data base includes a regional grid of Common Depth Point (CDP) seismic-reflection data covering the offshore east coast of the United States
Documentation None
Date of This Information October 1979

28

Name CALIFORNIA (CRIB) WORK FILE
Acronym CRIB/CA
Data Base Type Spatial
System That Accesses Data Base CRIB
Division/Office Geologic Division
Contact Person Donald F. Huber
Contact Telephone
(415) 323-8111 Ext 2906
(FTS) 467-2906
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Western Mineral Resources
MS 26
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Mineral-resource information; only those deposits with coordinates capable of generating computer map plots
Keywords
California; Commodities; CRIB; Deposits; Mineral Resources
Geographical Coverage
State of California
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings
Sources of Data in Data Base
Conservation Division files; Bureau of Mines; Published literature; Unpublished literature; Various commodity geologists' updates.
Status of Data Base Under development
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout
Storage Media Disc
Size of Data Base 5,048 records
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract See CRIB abstract.
Documentation None
Date of This Information October 1979

29

Name CARBON CONTENT ANALYSES
Acronym CARBON
Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Environmental assessment information
Keywords
Clay; Continental Shelf; Continental Slope; Marine Geology
Geographical Coverage
U.S. East Coast--Continental Shelf and Slope
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises
Time Span of Data Collected 1975
Status of Data Base Under development
Users
Bureau of Land Management; National Geophysical and Solar Terrestrial Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 40 records
Computer Residence
HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs
Abstract
Contains nine fields plus a key field to enable linkage to a sample collection information dataset called STA004. The data is computerized to enable transmittal in machine-readable form to the National Geophysical and Solar Terrestrial Data Center (NGSDC) in conformance with the USGS/NOAA data-archiving agreements.
Documentation None
Date of This Information October 1979

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Name CARBON 14 DATES
Acronym CDATES
Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Environmental assessment information
Keywords
Carbon; Continental Shelf; Continental Slope; Marine Geology
Geographical Coverage
U.S. East Coast--Continental Slope and Shelf
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises

Time Span of Data Collected 1975
Status of Data Base Under development
Users
Bureau of Land Management; National Geophysical and Solar Terrestrial Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 19 records
Computer Residence
HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs
Abstract
Contains eight fields plus a key field to enable linkage to a sample collection dataset called STA004
Documentation None
Date of This Information October 1979

31

Name
CHEMICAL ANALYSES ON MAJOR, MINOR, AND TRACE ELEMENTS IN U.S. COAL BEDS
Acronym USCHEM
Data Base Type Spatial
System That Accesses Data Base
NATIONAL COAL RESOURCES DATA SYSTEM
Division/Office Geologic Division
Contact Person M. Devereaux Carter
Contact Telephone
(703) 860-7464 (FTS) 928-7464
Contact Address
U.S. Geological Survey
Geologic Division
MS 956
Reston, VA 22092
Subject Coverage Coal geochemistry
Keywords
Coal; Geochemical Analysis; Major, Minor; Trace Elements
Geographical Coverage
All coal-bearing States in the United States
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS geologists and laboratories; USBM and DOE Laboratories; State Geological Survey geologists
Time Span of Data Collected
1974 to the present
Status of Data Base Daily update
Users
Computer Sciences Corporation (provides access to many outside users); Department of Interior Policy Analysis Office; State Geological Surveys; U.S. Army Corps of Engineers
Data Availability
Available for unlimited access
Output Media Interactive access
Storage Media Disc
Size of Data Base
4,000 records; 512 characters per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN IV; PL/I
Abstract
The data base maintains major, minor, and trace element analyses on coal beds analyzed by USGS laboratories. Standard Bureau of Mines analyses are included for many samples. Data are located by latitude and longitude coordinates. Data elements include State, county, coal field, geologic age and formation, rank, thickness or coal, thickness of overburden, and reliability of data. This is part of a continuing USGS coal geochemical program. Analyses on coal and related rocks will be added to the file as they are reported.
Documentation None
Date of This Information October 1979

32

Name CLAY MINERALOGY ANALYSES
Acronym CLAYMI
Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office
Geologic Division

Contact Person
Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Environmental assessment information
Keywords
Clay; Continental Shelf; Continental Slope; Marine Geology
Geographical Coverage
U.S. East Coast--Continental Shelf and Slope
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises
Time Span of Data Collected 1975
Status of Data Base Under development
Users
Bureau of Land Management; National Geophysical and Solar Terrestrial Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 34 records
Computer Residence
HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs
Abstract
Contains 14 fields plus a key field to enable linkage to a sample collection dataset called STA004
Documentation None
Date of This Information October 1979

Name
COMPUTERIZED FILE OF GEOLOGIC MAP DATA
Acronym GEOL MAP DATA
Data Base Type Bibliographic
Division/Office Geologic Division
Contact Person Kathleen C. DeWitt
Contact Telephone
(602) 779-3311 Ext 1531
(FTS) 261-1631
Contact Address
U.S. Geological Survey
Geologic Division
Office of Environmental Geology
Branch of Central Environmental Geology
2255 North Gemini Drive
Flagstaff, AZ 86001
Subject Coverage
Geologic features; Man-made features, including mining operation by commodity; mapping or map display techniques; occurrence of selected types of rock/mineral deposits; and dominant rock type
Keywords
Commodities; Geologic Data; History; Mapping; Maps; Mineral Deposits; Occurrences
Geographical Coverage
General purpose geologic maps at scales between 1:24,000 to 1:250,000 of all areas in the conterminous United States covering more than half of a standard 7-1/2-minute-sized quadrangle
Sources of Data in Data Base
U.S. Geological Survey and State Geological Surveys. A geologic data file, cataloging the availability of many types of data commonly shown on geologic maps published since 1930
Time Span of Data Collected
1930 to the present
Status of Data Base Under development
Users
U.S. Geological Survey geologists
Data Availability
Available for unlimited access
Output Media Interactive Access
Storage Media Disc

Size of Data Base
125,000 punched cards; 80 characters per card
Computer Residence
HIS MULTICS Denver, CO; PDP-11/34 Flagstaff, AZ
Languages QUERY
Abstract
The data file serves as a catalogue for the availability of many types of data commonly shown on geologic maps--especially those types of data that may be used for topical compilations within the Environmental Overviews Program. The data file serves a library retrieval function, providing lists of any of the items, either singly or in combinations.
Documentation None
Date of This Information October 1979

34

Name
COMPUTERIZED RESOURCE INFORMATION BANK
Acronym CRIB
Data Base Type Spatial
Division/Office Geologic Division
Contact Person James A. Calkins
Contact Telephone
(703) 860-6455 (FTS) 928-6455
Contact Address
U.S. Geological Survey
Geologic Division
MS 952
Reston, VA 22092
Subject Coverage
Mineral resources locations (mines and occurrences); Commodities
Keywords
Commodities; Deposits; Mineral Resources; Mines
Geographical Coverage Worldwide
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings; State Plane Coordinates
Sources of Data in Data Base
Bureau of Land Management; South Africa; State geological surveys of the States of Idaho, Minnesota, Montana, Nevada, North Carolina, Oregon, South Dakota, Tennessee, and Virginia; Tennessee Valley Authority; U.S. Geological Survey; West Germany
Status of Data Base Operational
Users
Access through worldwide General Electric MARK III Service Computer Network; Bureau of Land Management; Tennessee Division of Geology; Tennessee Valley Authority; U.S. Forest Service; U.S. Geological Survey
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base
46,000 variable-length records
Computer Residence
IBM 370/155 Reston, VA
Languages IBM-BAL
Abstract
In general, CRIB consists of a set of records on the mineral deposits and mineral commodities of the United States and, to a certain extent, the world. The file is arranged so as to accept the basic information needed to describe a mineral deposit or mineral commodity. A given record may relate to a single commodity, a group of commodities, a mineral deposit, or a group of related deposits, such as a mining district. The file is flexible so that what constitutes a record can be decided largely by the user. Entries are in natural-language text wherever possible, but certain entries are rigidly formatted, or coded, or both. A given record may consist of as many as 32,000 characters. The organization of the file together with the program used provides for highly selective retrievals. Retrieved information can be printed in any of three arrange-

ments, or it can be passed to a subsequent program for further processing.

Documentation
Circulars 681, 755A, 755B; University of Oklahoma Gipsy Users Manual

Date of This Information October 1979

35

Name
COMPUTERIZED RESOURCES INFORMATION BANK MERCURY COMMODITY FILE

Acronym CRIB/Hg

Data Base Type Spatial

System That Accesses Data Base CRIB

Division/Office Geologic Division

Contact Person
Jim Rytuba or Jocelyn Peterson

Contact Telephone
323-8111 Ext 2205(JR),
Ext 2549(JP)
(FTS) 467-2205 or 467-2549

Contact Address
U.S. Geological Survey
Branch of Western Mineral Resources
MS 26
345 Middlefield Road
Menlo Park, CA 94025

Subject Coverage
Geologic, location, and resource information for mercury

Keywords
Cinnabar; Conterminous United States; Mercury; Quicksilver

Geographical Coverage
Conterminous United States; will soon be entering worldwide data

Spatial Data Type Point

Coordinate System
Latitude/Longitude; UTM Northings and Eastings; Township, Range, and Section

Sources of Data in Data Base
USGS geologists and technicians

Time Span of Data Collected
1973 to the present

Status of Data Base Operational

Users
USGS geologists; Mining and consulting firms

Data Availability
Available for unlimited access

Output Media
Interactive access; Batch computer printout; Publication

Storage Media Magnetic tape; Disc

Size of Data Base
1,500 variable-length records

Computer Residence
IBM 370/155 Reston, VA

Languages GIPSY

Abstract
The CRIB Mercury Commodity File consists of variable-length records containing the basic information needed to characterize mercury deposits, including text, numeric data, and codes with the following information: Name, location, geology, production, references, and, occasionally, reserves.

Documentation
Peterson, J. A., Bergquist, J. R., and Gassaway, J. S., 1977, Mercury in the conterminous United States: computerized data file and computer plotted map of occurrences: U.S. Geological Survey Open-File Report 77-859. Keefer, E. K., and Calkins, J. A., 1977, Description of individual data items and codes in CRIB: U.S. Geological Survey Circular 755-B, 32 p.

Comments
The conterminous United States records have been released to the public; worldwide coverage is just beginning.

Date of This Information October 1979

36

Name
COMPUTERIZED RESOURCES INFORMATION BANK--UTAH FILE

Acronym CRIB/UTAH

Data Base Type Spatial

System That Accesses Data Base CRIB

Division/Office Geologic Division

Contact Person Edwin W. Tooker

Contact Telephone
(415) 323-8111 Ext 2621
(FTS) 467-2621

Contact Address
U.S. Geological Survey
Branch of Western Mineral Resources
MS 26
345 Middlefield Road
Menlo Park, CA 94025

Subject Coverage
Mineral-resources information: commodities, geology, location, production, reserves, and workings

Keywords
Metallic Commodities; Mineral Occurrences; Utah

Geographical Coverage State of Utah

Spatial Data Type Point

Coordinate System
UTM Northings and Eastings

Sources of Data in Data Base
Publications

Time Span of Data Collected
1978 to the present

Status of Data Base Under development

Users
USGS geologists and mineral economists

Data Availability
Available for unlimited access

Output Media
Interactive access; Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base 3,038 records

Computer Residence
IBM 370/155 Reston, VA

Languages GIPSY

Abstract
The Computerized Resources Information Bank (CRIB) is a very useful tool in assessing the mineral resources of Utah. CRIB consists of records that contain the name, location, commodity information, deposit information, geology, workings, production, reserves, potentials, and any other information that would characterize the deposit. In order for CRIB to be useful, it uses the GIPSY program. This program is used to correct incorrect data, add new data, delete unuseful data, add new records, or delete duplicate records. Information in CRIB can be retrieved in a number of ways: by commodity, district or county, production, deposit, or location. These kinds of information can be compared and contrasted with that of each other, other States, other countries.

Documentation
Keefer, Eleanor K., and Calkins, James A., 1977, Description of Individual Data Items and Codes in CRIB: U.S. Geological Survey Circular 755-B, 32 p.

Date of This Information October 1979

37

Name
COMPUTERIZED RESOURCE INFORMATION SPECIALISTS PROGRAM

Acronym CRISP

Data Base Type Spatial

System That Accesses Data Base
RESOURCE ATTACHE PROGRAM

Division/Office Geologic Division

Contact Person Allen L. Clark

Contact Telephone
(703) 860-6555 (FTS) 928-6555

Contact Address
U.S. Geological Survey
Geologic Division
Office of International Geology
MS 917
Reston, VA 22092

Subject Coverage
Mineral-resource information commodities

Keywords
Coal; Commodities; Energy Resources; Mineral Resources; Ownership; Productive Capacity; Reserves; Resources; Uranium-Thorium

Geographical Coverage
Prototype file on South Africa and Bolivia; file extension to Argentina, Brazil, Australia, India, Indonesia, Mexico, and Thailand

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Resource attaches and science reporting officers of the Department of State

Time Span of Data Collected
1976 to the present

Status of Data Base Under development
Users
Bureau of Mines; Department of State; U.S. Geological Survey
Data Availability
Available for limited access
Output Media
Batch computer printout
Storage Media Disc
Size of Data Base
2,000 records; 500,000 bytes
Computer Residence
HIS MULTICS Reston, VA
IBM 370/155 Reston, VA
Languages GIPSY; GRASP
Abstract
The U.S. Geological Survey, in cooperation with the resource-attache program of the Department of State, is developing a data file of energy and mineral resource information specifically designed to support the reporting responsibility of Department of State resource attaches. The data files are specific to each Resource Attache's country or region of reporting responsibility, and together the files form the CRISP (Computerized Resource Information Specialist Program) system. The data files are created using CRIB formats. Data is processed by the GIPSY or GRASP Systems. The intent is to collect, evaluate, and report information on energy and mineral resources that may be of economic or political importance to the United States.
Documentation None
Date of This Information October 1979

38

Name CORE LIBRARY DATA FILE
Acronym CLDF
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Charles W. Spencer
Contact Telephone
(303) 234-4750 (FTS) 234-3893
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
P.O. Box 25046 MS 940
Denver, CO 80225
Subject Coverage
Library of summary data for cores stored at USGS Core Library in Golden, Colo.
Keywords
Core Data; Gas Well; Inventory; Oil Well; Stratigraphic Data; Summary
Geographical Coverage
Rocky Mountain Region
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Data (cores) made available to the U.S. Geological Survey by donation. Some proprietary cores are present
Time Span of Data Collected Variable
Status of Data Base Operational
Users
Academic institutions; Government; Private industry;
Data Availability
Available for limited access
Output Media
Batch computer printout
Storage Media Disc
Size of Data Base
1,250 Records (cores)
Computer Residence
HIS MULTICS Denver, CO
Languages FORTRAN
Abstract
The Core Library Data File is a computerized library of data on more than 1,200 drill cores in the USGS Core Library. The data contained is a summary of location and identification of cores, stratigraphic data, shipping data, and storage data. A retrieval program to extract data by location, stratigraphy, and library storage identification number has been written to satisfy inquiries to the system.
Documentation None
Comments
Some proprietary data is present. Access is through the Branch of

Oil and Gas Resources. Computer listings will be made available for observation.

Date of This Information October 1979

39

Name
CRUDE OIL ANALYSIS-PETROLEUM DATA SYSTEM

Acronym PDS/CRUDE

Data Base Type Spatial

System That Accesses Data Base
Petroleum Data System (PDS)

Division/Office Geologic Division

Contact Person Ted S. Dyman

Contact Telephone
(303) 234-6115 (FTS) 234-6115

Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
MS 971
Building 25 Denver Federal Center
Denver, CO 80225

Subject Coverage
Analysis of chemical properties of crude oil from selected producing wells in U.S.

Keywords
Crude Oil; Energy; History; Oil; Oil Wells; PDS; Petroleum; Petroleum Industry

Geographical Coverage United States

Spatial Data Type Field

Coordinate System State, County

Sources of Data in Data Base
Department of Energy

Time Span of Data Collected
1972 to the present

Status of Data Base Operational

Users
Petroleum industry; Federal agencies; State geological activities; Interested parties

Data Availability
Available for unlimited access

Output Media
Interactive access; Batch computer printout

Storage Media Magnetic tape

Size of Data Base 8,600 records

Computer Residence
General Electric MARK 3000 service Computer Network through the University of Oklahoma

Languages GIPSY

Abstract
The Crude Oil Analysis Petroleum Data System is a small file of chemical analysis data on producing oil wells in the United States. The data is supplied by the Department of Energy.

Documentation
Petroleum Data System Information Systems Program Documentation, Volumes I and II, Office of Research Administration, University of Oklahoma, Norman, OK (3/77)

Comments
There are eleven other (smaller) data bases in the system not included in this inventory.

Date of This Information October 1979

40

Name CRUISE ADMINISTRATIVE DATA

Acronym ADMIN/CRUIS

Data Base Type Bibliographic

Division/Office Geologic Division

Contact Person Norman G. Bailey

Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175

Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building G, Quissett Campus
Woods Hole, MA 02543

Subject Coverage
Branch cruise information

Keywords
Continental Shelf; Continental Slope; Marine Geology; Marine Geophysics; Oceanography

Geographical Coverage
U.S. East Coast Continental Shelf and Slope; Gulf of Mexico Continental Shelf; Puerto Rican Shelf

Sources of Data in Data Base
USGS scientists and technicians; data gleaned from cruise reports written by "chief scientists"
Time Span of Data Collected
1971 to the present
Status of Data Base Under development
User
Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 139 records
Computer Residence HP/Woods Hole, MA
Language
IMAGE/1000 Data Base Management System
Abstract
The ADMIN/CRUIS data base contains 86 fields of information concerning the scientific cruises of the Branch.
Documentation None
Comments
Data can only be accessed by IMAGE package software.
Date of This Information October 1979

41

Name
DIGITIZED OIL AND GAS FIELD MAP PROJECT
Acronym PDS/DIG OIL & GAS
Data Base Type Spatial
System That Accesses Data Base
Petroleum Data System (PDS)
Division/Office Geologic Division
Contact Person Lonnie Alley
Contact Telephone
(303) 234-4750 (FTS) 234-4750
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
Building 25 Denver Federal Center
MS 940
Lakewood, CO 80225
Subject Coverage
Oil and gas fields
Keywords
Economic Geology; History; Oil Fuel; Oil Shales; Petroleum; U.S. Gas; U.S. Oil Fields
Geographical Coverage
Nationwide by State
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
U.S. State publications
Time Span of Data Collected
1976 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Geologic Division, Branch of Oil and Gas Resources
Data Availability
Available for limited access
Output Media
Interactive access; Batch computer printout
Storage Media Magnetic tape
Size of Data Base
25,000 to 30,000 fields covered
Computer Residence
General Electric MARK 3000 service computer network through the University of Oklahoma
Languages
FORTRAN and other languages available through computer service above
Abstract
This is a project related to the Petroleum Data System. The data file contains digitized outlines of the oil and gas fields of the U.S. compiled at a scale of 1:500,000 plus a Federal Power Commission (FPC) field number and a latitude and longitude of the centerpoint.
Documentation
Petroleum Data System Information Systems Program Documentation, Vols. I and II Office of Research and Administration, University of Oklahoma, Norman, OK
Date of This Information October 1979

42

Name
EASTERN GAS SHALES PROJECT DATA FILE
Acronym EGSPDF
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Ted S. Dyman
Contact Telephone
(303) 234-6115 (FTS) 234-6115
Contact Address
U.S. Geological Survey
Geologic Division
P.O. Box 25046 MS 971
Denver, CO 80225
Subject Coverage
Geochemical, geophysical, lithologic, physical character, and sample data.
Keywords
Data; Devonian; Gas Well; Geochemical; Geological; Oil Well; Outcrops; Samples; Shale
Geographical Coverage
Appalachian basin
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS geologists; State geological surveys; Oil and gas producing companies
Time Span of Data Collected
1976 to 1980
Status of Data Base Under development
Users
Department of Energy; Oil and gas producing companies; State geological surveys; USGS geologists
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Magnetic tape
Size of Data Base
5,000 records; 200 characters per record
Computer Residence
HIS MULTICS Denver, CO
Languages FORTRAN IV; COBOL
Abstract
The Eastern Gas Shales Project Data File is a computer-compatible, card-image file of geological-, geochemical-, and physical-character data generated during the life of the Eastern Gas Shales Project. Data is sample dependent by either well or outcrop location, depth, or stratigraphic position. Each record (sample) may have data encompassing as many as 100 possible card images or data categories. The Eastern Gas Shales Project is a Department of Energy effort to generate natural gas from Devonian shales in the Appalachian basin.
Documentation
U.S. Geological Survey Open-File Report 79-1670, 125 p.
Date of This Information October 1979

43

Name
GEOLOGIC INFORMATION ON COAL RESOURCES OF THE UNITED STATES
Acronym USGEOL
Data Base Type Spatial
System That Accesses Data Base
NATIONAL COAL RESOURCES DATA SYSTEM
Division/Office Geologic Division
Contact Person M. Devereaux Carter
Contact Telephone
(703) 860-7464 (FTS) 928-7464
Contact Address
U.S. Geological Survey
Geologic Division
MS 956
Reston, VA 22092
Subject Coverage
Coal geology
Keywords
Carbon; Coal Geology; Mines; Outcrop; Strip Mines; Underground Mines
Geographical Coverage
All coal-bearing States in the United States east of the Mississippi River
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS geologists; State geological survey geologists
Time Span of Data Collected
1974 to the present
Status of Data Base Daily update

Users
Computer Sciences Corporation (provides access to many outside users); Department of the Interior Policy Analysis Office; State Geological Surveys; U.S. Army Corps of Engineers
Data Availability
Available for limited access
Output Media Interactive access
Storage Media Disc
Size of Data Base
2,000 records; 276 characters per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN IV; PL/1
Abstract
The data base maintains field geologists' observations at an outcrop, strip pit, or underground mine. It includes data on name of coal, thickness, cleats, roof and floor rock, overburden, structural features, lithology, color, bedding, grain size and shape, average slope, and weathering.
Documentation None
Date of This Information October 1979

44

Name GEOLOGIC NAMES
Acronym GEONAMES
Data Base Type Bibliographic
Division/Office Geologic Division
Contact Person Roger W. Swanson
Contact Telephone
(703) 860-6511 (FTS) 928-6511
Contact Address
U.S. Geological Survey
Geologic Division
Office of Scientific Publications
MS 902
Reston, VA 22092
Subject Coverage
Geologic names of the United States
Keywords
Age; Geologic Names; Published Information; State; Stratigraphic Names
Geographical Coverage
United States and all U.S. possessions
Sources of Data in Data Base
Publications; USGS card files
Time Span of Data Collected
1800 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Geologic Division, Office of Scientific Publications and geologists nationwide
Data Availability
Available for limited access
Output Media
Batch computer printout; Publication
Storage Media Magnetic tape; Disc
Size of Data Base
27,000 records; 80 characters per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN
Abstract
The rock stratigraphic names in good usage in the United States have been coded by the U.S. Geological Survey in accordance with the standard stratigraphic code adopted by the American Association of Petroleum Geologists. The data was placed and was computer sorted to provide three printouts: by age, by alphabetic arrangement, and by alphabetic arrangement for each State. Copies of the State printouts were sent to the respective State geologists for review and help in revision. Copies of all three printouts are available for reference in the Geologic Names Committee offices of the Geological Survey in Reston, VA, Denver, CO, and Menlo Park, CA; a copy of the tape is also at each center. The printouts show for each line (record) the State in which the unit occurs, its geologic age, a four-letter mnemonic code of the name, a two-digit sequence number to help identify that record, an asterisk if the name has been published since the last lexicon, and the geologic name of the unit including a rank or lithology term. Each

State, each age, and each rank or lithology usage is accorded a separate record. Additional data for the type locality is being coded to accompany the geologic name. These include principal rock type (if not already identified in the name), diagnostic color, thickness, location in State, and a reference for names not in a lexicon. The original tape is being revised with the help of data provided by the State geologists. The added data will be inserted into the tape, and new printouts will be made. This version will be made available as soon as possible.

Documentation
USGS Bulletins 896, 1200, and 1350

Date of This Information October 1979

45

Name GEOTHERMAL RESOURCES
Acronym GEOTHERM
Data Base Type Spatial
Division/Office Geologic Division
Contact Person James R. Swanson
Contact Telephone
(415) 323-8111 Ext 2906
(FTS) 467-2906
Contact Address
U.S. Geological Survey
Geologic Division
Office of Resource Analysis
MS 84
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Geothermal resources information; Wells; Springs
Keywords
Energy; Geothermal; Hot Springs; Hydrothermal; Resources; Water; Wells
Geographical Coverage
Western United States; Alaska; Hawaii; Mexico; New Zealand; Taiwan
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings
Sources of Data in Data Base
USGS geologists or technicians; Geological surveys of Western U.S.
Time Span of Data Collected
1974 to 1978
Status of Data Base Operational
Users
Department of Energy; National Oceanic and Atmospheric Administration; State Geologists
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media Disc
Size of Data Base
5,500 records; 500 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
Geothermal Resources is an operational data base containing geothermal resources information. There are three files covering geothermal fields, wells, and point sources of warm water in the United States and some other countries. Information on locality, geology, and physical and chemical characteristics of the waters is stored in the system. GEOTHERM uses the data storage and retrieval system called GIPSY. Retrievals are available at this time by written request.
Documentation
Mariner, R. H., Brook, C. A., Swanson, J. R., and Mabey, D. R., 1978, Selected Geothermal Resources Data for Hydrothermal Convection Systems in the United States 90 C: U.S. Geological Survey Open-File Report 78-858, 460 p.
Date of This Information October 1979

46

Name GRAIN SIZE ANALYSES
Acronym GRSIZE

Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Environmental assessment information
Keywords
Continental Shelf; Continental Slope; Grain Size; Marine Geology; Oceanography
Geographical Coverage
U.S. East Coast--Continental Shelf and Slope
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises
Time Span of Data Collected
1975 to 1978
Status of Data Base Under development
Users
Bureau of Land Management; National Geophysical and Solar Terrestrial Data Center/EDS/NOAA; U.S. Geological Survey Conservation Division and Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 770 records
Computer Residence HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs
Abstract
The GRSIZE dataset contains 21 fields plus a key field that enables linking to a sample collection dataset called STA004. The data has been formatted and entered into computer storage to get the data in machine-readable form to transmit to the National Geophysical and Solar Terrestrial Data Center (NGSDC), EDS, NOAA in conformance with the USGS/NOAA data-archiving agreements.
Documentation None
Date of This Information October 1979

47

Name HYDROCARBONS
Acronym HYCARB
Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Environmental assessment information
Keywords
Continental Shelf; Continental Slope; Hydrocarbons; Marine Geology
Geographical Coverage
U.S. East Coast--Continental Shelf and Slope
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises.
Time Span of Data Collected
1975 to 1978
Status of Data Base Under development
Users
Bureau of Land Management; National Geophysical and Solar Terrestrial Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology

Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 143 records
Computer Residence
HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs
Abstract
Contains 15 fields plus a key field to enable linkage to a sample collection information dataset called STA004. The data is computerized to enable transmittal in machine-readable form to the National Geophysical and Solar Terrestrial Data Center (NGSDC) in conformance with the USGS/NOAA data-archiving agreements.
Documentation None
Date of This Information October 1979

48

Name
IDENTIFIED COAL RESOURCES OF THE EASTERN UNITED STATES
Acronym ECOAL
Data Base Type Spatial
System That Accesses Data Base
NATIONAL COAL RESOURCES DATA SYSTEM
Division/Office Geologic Division
Contact Person M. Devereux Carter
Contact Telephone
(703) 860-7464 (FTS) 928-7464
Contact Address
U.S. Geological Survey
Geologic Division
MS 956
Reston, VA 22092
Subject Coverage Coal resources
Keywords
Coal; Eastern United States; Resources
Geographical Coverage
All coal-bearing States in the United States east of the Mississippi River
Spatial Data Type County basis
Sources of Data in Data Base
Published reports
Time Span of Data Collected
1900 to the present
Status of Data Base Operational
Users
Computer Sciences Corporation (provides access to many outside users); Department of the Interior Policy Analysis Office; State Geological Surveys; U.S. Army Corps of Engineers
Data Availability
Available for unlimited access
Output Media Interactive access
Storage Media Disc
Size of Data Base
15,000 records; 112 character per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN IV; PL/1
Abstract
The data base contains published coal resource estimates for coal-bearing States east of the Mississippi River by State, county, coal field, geologic age and formation, rank, thickness of coal, thickness of overburden, and reliability of data. Sources of data are included. Also indicated is whether tonnage estimate is for original coal in the ground or that coal remaining as of the date of the publication. Data entry is 95 percent complete.
Documentation
Cargill, S. M., Olson, A. C., Medlin, A. L., and Carter, M. D., 1976, PACER--Data entry, retrieval, and update for the National Coal Resources Data System (Phase I): U.S. Geological Survey Profesional Paper 978, 107 p.
Date of This Information October 1979

49

Name
IDENTIFIED COAL RESOURCES OF THE WESTERN UNITED STATES
Acronym WCOAL

Data Base Type Spatial
System That Accesses Data Base
NATIONAL COAL RESOURCES DATA SYSTEM
Division/Office Geologic Division
Contact Person M. Devereux Carter
Contact Telephone
(703) 860-7464 (FTS) 928-7464
Contact Address
U.S. Geological Survey
Geologic Division
MS 956
Reston, VA 22092
Subject Coverage
Coal resources
Keywords
Coal; Resources; Western U.S.
Geographical Coverage
All coal bearing States in the United States west of the Mississippi River
Spatial Data Type County basis
Sources of Data in Data Base
Published reports
Time Span of Data Collected
1900 to the present
Status of Data Base Operational
Users
Computer Science Corporation (provides access to many outside users); Department of the Interior Policy Analysis Office; State Geological Surveys; U.S. Army Corps of Engineers
Data Availability
Available for unlimited access
Output Media Interactive access
Storage Media Disc
Size of Data Base
16,000 records; 112 characters per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN IV; PL/1
Abstract
The data base contains published coal resource estimates for coal-bearing States west of the Mississippi River. Data elements include State, county, coal field, geologic age and formation, rank, thickness of coal, thickness of overburden, and reliability of data. Data entry is 80 percent complete.
Documentation
Cargill, S. M., Olson, A. C., Medlin, A. L., and Carter, M. D., 1976, PACER--Data entry, retrieval, and update for the National Coal Resources Data System (Phase I): U.S. Geological Survey Professional Paper 978, 107 p.
Date of This Information October 1979

50

Name INDEX TO GEOLOGIC MAPS
Acronym GEOINDEX
Data Base Type Spatial
System That Accesses Data Base
GEOINDEX
Division/Office Geologic Division
Contact Person Patricia Fulton
Contact Telephone
(703) 860-7297 (FTS) 928-7297
Contact Address
U.S. Geological Survey
Geologic Division
Office of Scientific Publications
MS 922
Reston, VA 22092
Subject Coverage Geologic maps
Keywords
Geologic; Geology; Historical; Index; Inventory; Maps; Published Geologic Maps
Geographical Coverage
United States nationwide
Spatial Data Types Point; Line
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Any published material received by the USGS Library
Time Span of Data Collected
1974 to the present
Status of Data Base Operational
User Department of Energy
Data Availability
Available free in published hard-copy form
Output Media
Interactive access; Publication
Storage Media Magnetic tape; Disc
Size of Data Base
500,000 card images or 4,000,000 bytes
Computer Residence
HIS MULTICS Reston, VA

Languages FORTRAN

Abstract

The Index to Geologic Maps (GEOINDEX) has been developed as a data base and data base management system which provides three main capabilities. The primary capability is to provide the means of generating geologic index maps for rapid publication. A second capability is to provide immediate access by users to all items in the data base. The third capability is to provide nationwide summary information to policy and decision makers. GEOINDEX consists of fixed length records which supply the following information on published maps: unique numeric identifier, State, author, year, title, country or countries, publisher, series, emphasis, area covered by the map, coverage in latitude and longitude, center point in latitude and longitude, depositories, type of base map, and plate number. The system uses GRASP as the storage and retrieval program. Like GRASP, the system is organized as a relational data base.

Documentation None

Date of This Information October 1979

51

Name

INTERNATIONAL PHOSPHATE RESOURCE DATA BASE

Acronym IPRDB

Data Base Type Spatial

System That Accesses Data Base GRASP

Division/Office Geologic Division

Contact Person Nancy J. Bridges

Contact Telephone

(303) 234-6284 (FTS) 8-234-6284

Contact Address

Geologic Division
Office of Resource Analysis
P.O. Box 25046 MS 937
Denver, CO 80225

Subject Coverage

International phosphate resources, including geology, petrology, chemistry, reserves, resources, and beneficiation

Keywords

Bibliography; Chemistry; Economics; Geology; Occurrences; Phosphate; Petrology; Resources

Geographical Coverage Worldwide

Spatial Data Type Polygon

Coordinate System Latitude/Longitude

Source of Data in Data Base

International Cooperative Program

Time Span of Data Collected

1967 to the present

Status of Data Base Under development

Users

Geologists specializing in the geology of phosphate deposits. Secondary users will be phosphate resource geologists.

Data Availability

Availability for unlimited access

Output Media

Interactive access; Magnetic tape; Batch computer printout; Publication

Storage Media Disc

Size of Data Base 1,500 records

Computer Residence

HIS MULTICS Denver, CO

Languages PL/1; FORTRAN (GRASP)

Abstract

This data base is an international phosphate resource data base with the unit of entry being the phosphate occurrence. Data will include objective data of location and name, interpretive data of age and depositional environment, resource data, and economic data. A subfile giving bibliographic references will document the file. Also, subfiles will be available for recording chemical data, stratigraphic data, and other geologic data.

Documentation None

Comments

This data base is the result of international cooperation of phosphate geologists from most of the countries of the world that contain phosphate deposits, and also the cooperation of organizations that

make bibliographic information available.

Date of This Information October 1979

52

Name IRON RESOURCE ASSESSMENT
Acronym FE
Data Base Type Spatial
Division/Office Geologic Division
Contact Person William Cannon
Contact Telephone
(703) 860-6914 (FTS) 928-6914
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Eastern Mineral Resources
MS 954
Reston, VA 22092
Subject Coverage Iron resources
Keywords
Drilling; Iron Resources; Metallurgy; Mines; Petrologic; Records; Structural
Geographical Coverage
Northern Michigan
Spatial Data Types Point; Polygon
Coordinate System
UTM Northings and Eastings
Sources of Data in Data Base
USGS geologists; State geological surveys; Mining companies
Time Span of Data Collected
1879 to the present
Status of Data Base Operational
Users Geologic Division geologists
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Publication
Storage Media Magnetic tape
Size of Data Base
2,500 records; each record has 45 variables
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN
Abstract
Between 1957 and 1974, the USGS mapped the Marquette district, including the Negaunee Iron formation, in detail. During that work, a vast amount of petrologic and structural information was accumulated, and, with the cooperation of the mining companies active in the area, a file of diamond-drilling records was compiled. In 1975, we began a project to organize that information into a computerized file on iron resources.
Documentation
Cannon, W.F., Powers, Sandra L., and Wright, Nancy A., 1978, Computer-aided Estimates of Concentrating-grade Iron Resources in the Negaunee Iron-formation, Marquette District, Michigan: U.S. Geological Survey Professional Paper 1045, 21 p.
Date of This Information October 1979

53

Name MAJOR MINES OF THE WORLD
Acronym MDW
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Nancy A. Wright
Contact Telephone
(703) 860-6451 (FTS) 928-6451
Contact Address
U.S. Geological Survey
Geologic Division
Office of Resource Analysis
MS 920
Reston, VA 22092
Subject Coverage Mines
Keywords
Commodity; Deposits; History; Milling; Mineral; Mines; Ore
Geographical Coverage
Mines of the world that account for 90 percent of all mineral output
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
September issues of Mining Magazine, published by Mining Journal
Time Span of Data Collected
1974 to 1977
Status of Data Base Operational
Data Availability
Available for limited access
Output Media Interactive access

Storage Media Disc
Size of Data Base
1,500 variable-length records
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN
Abstract
The basis for this file are the September issues of Mining Magazine, published by Mining Journal. The magazine contains a list of the mines of the world that account for 90 percent of all mineral output (other than coal). This basic information was put into a computer file, and GRASP is used for retrievals. The basic information includes mine name, country, location (State or district), mining method, relative size of operation, and product(s). Currently the literature is being searched to find out additional information about each mine. This information includes size and grade of original ore body, milling and mine capacities, mining and milling cut-off grade, amount and grade of commodity milled and mined each day, amount of metal produced, reserve estimate, reserve grade, and cumulative production.
Documentation
Mining Magazine, March 1978; Mining Journal, publisher
Date of This Information October 1979

54

Name
MEDFORD-COOS BAY 2° SHEET MINERAL DATA FILE (CRIB)
Acronym CRIB/OREGON
Data Base Type Spatial
System That Accesses Data Base CRIB
Division/Office Geologic Division
Contact Person Maureen G. Johnson
Contact Telephone
(415) 323-8111 Ext 2304
(FTS) 467-2304
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Western Mineral Resources
MS 41
345 Middlefield Road
Menlo Park, CA 94022
Subject Coverage
Mineral-resources information
Keywords
Commodity; Mineral Occurrences; Mineral-Resource Data; Oregon; Platinum Metals
Geographical Coverage
Medford and south half of Coos Bay two-degree Quadrangles, southwestern Oregon
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Published and unpublished descriptions of metallic and some nonmetallic occurrences, prospects, and mines in two-degree sheets in Oregon
Time Span of Data Collected
1973 to 1979
Status of Data Base Operational
Users
U.S. Geological Survey, Branch of Western Mineral Resources
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Publication
Storage Media Disc
Size of Data Base
1,548 variable-length records
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
Data on occurrences, prospects, and mines, with emphasis on geology, especially host-rock type and ore mineralogy. Used in mineral-resource evaluation of two-degree sheets (part of national CRIB data base; resides in separate file).
Documentation
Calkins, James A., Kays, Olaf, and Keefer, Eleanor K., 1973, CRIB--The mineral resources databank of

the U.S. Geological Survey: U.S. Geological Survey Circular 681, 33 p; Page, N. J., Johnson, M. G., Halfty, Joseph, and Ramp, Len, 1975, Occurrence of platinum group metals in ultramafic rocks of the Medford-Coos Bay two-degree Quadrangles, southwestern Oregon: U.S. Geological Survey Miscellaneous Field Studies Map MF-694, scale 1:250,000; Page, N. J., and Johnson, M. G., 1977, Chromite resources of the sodiform chromite deposits and exploration for concealed chromite deposits in the Medford-Coos Bay Quadrangles, southwestern Oregon: U.S. Geological Survey Open-File Report 77-656, 14 p.

Date of This Information October 1979

55

Name METALLOGENIC STUDIES
Acronym CP MIN MAP
Data Base Type Spatial
System That Accesses Data Base
METALLOGENIC STUDIES PROJECT
Division/Office Geologic Division
Contact Person
Matthew E. Paidakovich
Contact Telephone
(703) 860-6604 (FTS) 928-6604
Contact Address
U.S. Geological Survey
Geological Division
Office of Resource Analysis
MS 952
Reston, VA 22092
Subject Coverage
Mineral deposit data
Keywords
Commodities; History; Maps; Metallogenic; Mineral Resources; Mineralogy
Geographical Coverage
Western United States; Alaska; Western Canada; Mexico; Central America; Carribean
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
State and Federal publications and open files
Time Span of Data Collected
1976 to the present
Status of Data Base Under development
Users Foreign Geological Surveys
Data Availability
Available for limited access
Output Media
Interactive access; Batch computer printout; Punched cards
Storage Media Magnetic tape; Disc
Size of Data Base
2,800 records; 160 characters per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN IV
Abstract
The data base contains mineral deposit data compiled for the purpose of selective retrieval and plotting primarily at the map scale of 1:10,000,000.
Documentation None
Date of This Information October 1979

56

Name
NATIONAL URANIUM RESOURCE EVALUATION DATA BASE
Acronym NAT. U.D.B.
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Ronald R. Wahl
Contact Telephone
(303) 234-5150 (FTS) 234-5150
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Uranium and Thorium Resources
P.O. Box 25046, MS 916
Denver Federal Center
Denver, CO 80225
Subject Coverage
The locations where people have looked for uranium
Keywords
Commodities; Deposits; Rare Elements; Uranium; Uranium Exploration; Uranium Mines
Geographical Coverage United States
Spatial Data Type Point

Coordinate System Latitude/Longitude
Sources of Data in Data Base
U.S. Geological Survey geologists; Energy Research and Development Administration
Time Span of Data Collected
1940 to the present
Status of Data Base In test stage
Users
Department of Energy; U.S. Geological Survey, Geologic Division, Branch of Uranium and Thorium Resources
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Disc
Size of Data Base
500 records; 8,000,000 characters
Computer Residence
HIS MULTICS Denver, CO
Languages PL/1; MRDS
Abstract
The National Uranium Resource Evaluation (NURE) data base was established as an adjunct to the NURE program of the Department of Energy and the Geological Survey's role in this program. Data is being stored for the conterminous forty eight states. No data is presently available for Alaska and Hawaii for inclusion in the data base. Data is entered and retrieved in CRIB (Computerized Resource Information Bank) input format to allow easier data exchange.
Documentation None
Date of This Information October 1979

57

Name
NATURAL GAS ANALYSIS PETROLEUM DATA SYSTEM
Acronym PDS/GAS ANAL
Data Base Type Spatial
System That Accesses Data Base
Petroleum Data System (PDS)
Division/Office Geologic Division
Contact Person Ted S. Dyman
Contact Telephone
(303) 234-6115 (FTS) 234-6115
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
MS 971
Building 25 Denver Federal Center
Denver, CO 80225
Subject Coverage
Analysis of chemical properties of producing natural gas samples
Keywords
Gas; Gas Analysis; Natural Gas; Petroleum; U.S. Energy
Geographical Coverage United States
Spatial Data Type Field
Coordinate System State, County
Sources of Data in Data Base
Department of Energy
Time Span of Data Collected
1971 to 1973
Status of Data Base Operational
Users
Petroleum industry; Federal agencies; State geological surveys; Interested public
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout
Storage Media
Magnetic tape
Size of Data Base 9,000 samples
Computer Residence
General Electric MARK 3000 Service Computer Network through the University of Oklahoma
Languages GIPSY
Abstract
The Natural Gas Analysis Petroleum Data System is a small file of chemical analysis data on producing natural-gas wells in the U.S. The data is maintained and provided for the Petroleum Data System by the Department of Energy.
Documentation
Petroleum Data System Information Systems Program Documentation Volumes I and II, Office of Research Administration, University of Oklahoma, Norman, OK (3/77)
Date of This Information October 1979

58

Name NICKEL/COBALT
Acronym NI/CO
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Michael P. Foose
Contact Telephone
(703) 860-7356 (FTS) 928-7356
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Eastern Mineral Resources
MS 954
Reston, VA 22092
Subject Coverage
Magnetic sulfides (Nickel, Copper, and Platinum grade metals)
Keywords
Copper; Deposits; Magnetic; Nickel; Platinum; Sulfides
Geographical Coverage Worldwide
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
International Geologic Community, International Geological Correlation Program (IGCP) #161 participants
Time Span of Data Collected
Earliest available records (some centuries old) to 1984
Status of Data Base Under development
Users Worldwide scientific community
Data Availability
Available for limited access
Output Media
Interactive access; Publication
Storage Media Not yet decided
Size of Data Base
Not known at this time
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN
Abstract
File currently being developed by international scientific community on magnetic sulfide that will meet the needs of IGCP #161. The file will focus on sulfide deposits containing nickel, cooper, and platinum group metals. Data will be entered by participants from each participating country and will be put in a CRIB-type system.
Documentation None
Date of This Information October 1979

59

Name
NONFERROUS METAL DEPOSITS OF THE WORLD
Acronym MANIFILE
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Nancy A. Wright
Contact Telephone
(703) 860-6451 (FTS) 928-6451
Contact Address
U.S. Geological Survey
Geological Division
Office of Resource Analysis
MS 920
Reston, VA 22092
Subject Coverage
Metal deposits--Nonferrous
Keywords
Deposits; History; Metals; Mineral Deposits; Nonferrous Metals
Geographical Coverage World
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
University of Manitoba
Time Span of Data Collected
1968 to 1970
Status of Data Base Operational
Users
USGS geologists and economists
Data Availability
Magnetic tapes are available
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
4,000 variable-length records
Computer Residence
INFONET was used; not currently computer-resident
Languages GRASP
Abstract
Developed as a thesis project at the University of Manitoba by Peter Laznicka, the MANIFILE is a computer-processable file of nonferrous-metal deposits of the

world. The USGS version of the file contains about 4,000 records; each record being a mineral deposit. Each record may contain identification and location information, assured content and grade of gold, silver, copper, zinc, lead, chromium, tin, tungsten, molybdenum, antimony, or mercury, references, rock unit name, geologic and absolute age geotectonic data, environment-of-formation data, associated and enclosing rocks, genetic types, shape-of-ore body data, minerals present, and deposition ages. Work on the file was completed in 1971, so parts may be somewhat out of date.

Documentation

A complete description and printout of the file may be found in MANIFILE, Publication No. 2, Centre for Precambrian Studies, Department of Earth Sciences, University of Manitoba, Winnipeg, 1973, Peter Laznicka, compiler.

Comments

At the U.S. Geological Survey, retrievals on the files are done using the GRASP system.

Date of This Information October 1979

60

Name

OIL AND GAS PRODUCTION FILE--PETROLEUM DATA SYSTEM

Acronym PDS/OIL & GAS PROD

Data Base Type Spatial

System That Accesses Data Base

Petroleum Data System (PDS)

Division/Office Geologic Division

Contact Person Ted S. Dyman

Contact Telephone

(303) 234-6115 (FTS) 234-6115

Contact Address

U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
MS 971
Building 25 Denver Federal Center
Denver, CO 80225

Subject Coverage

Oil and gas production data

Keywords

Canada; Energy; Gas; Oil; PDS; Petroleum; Pools; Production; U.S. Reservoirs

Geographical Coverage

United States; Canada in separate file

Spatial Data Type

Pool or field (equivalent to point data type)

Coordinate System Latitude/Longitude

Sources of Data in Data Base

U.S. and Canadian publications of oil and gas production. Some publications are by pool, some by field. Supplemental data from other commercial and Federal sources. Maintained and operated by University of Oklahoma

Time Span of Data Collected

1976 to the present

Status of Data Base Operational

Users

Petroleum industry; Federal agencies; State geological activities; Interested public

Data Availability

Available for unlimited access

Output Media

Interactive access; Batch computer printout

Storage Media Magnetic tape

Size of Data Base 80,000 records

Computer Residence

General Electric MARK 3000 service Computer Network through University of Oklahoma

Languages GIPSY

Abstract

The oil and gas data file for the United States consists of over 80,000 records containing publicly available data on production of all fields and pools. Data for each State is updated annually with production, well counts, and new discoveries from State records, supplemented with commercial and Federal data sources. The data for Canadian oil and gas production are compiled by the Geological Survey of Canada. The Petroleum Data System (PDS) was developed and is being maintained

by the Office of Research Administration, University of Oklahoma, under USGS Contract Number 14-08-0001-14796.

Documentation
Petroleum Data System Information Systems Program Documentation Volumes I and II, Office of Research Administration, University of Oklahoma, Norman, OK (3/77)

Comments
There are eleven other (smaller) data bases in the system not included in this inventory.

Date of This Information October 1979

61

Name OIL SHALE DATA SYSTEM

Acronym OSDS

Data Base Type
Spatial

Division/Office Geologic Division

Contact Person Janet K. Pitman

Contact Telephone
(303) 234-5121 (FTS) 234-5121

Contact Address
U.S. Geological Survey
Geologic Division
P.O. Box 25046 MS 939
Lakewood, CO 80225

Subject Coverage
Oil Shale Fischer Assay and saline mineral data

Keywords
Fischer Assay; History; Oil Shale; Saline Data; Well Cores

Geographical Coverage
Piceanie Basin, Colorado; Uinta Basin, Utah

Spatial Data Type Polygon

Coordinate System
Public Land Survey (Section, Township, and Range)

Sources of Data in Data Base
Bureau of Mines; Private industry

Time Span of Data Collected
1950 to the Present

Status of Data Base Operational

Users
Bureau of Land Management; Private industry; U.S. Geological Survey, Conservation Division

Data Availability
Available for limited access

Output Media
Interactive access; Magnetic tape; Batch computer printout; Publication

Storage Media Disc

Size of Data Base
350 files; Maximum of 3,000 records per file

Computer Residence
HIS MULTICS Denver, CO

Languages FORTRAN IV

Abstract
The data base consists of over 400 sets of Fischer Assay and saline mineral data for well cores from Colorado and Utah. Much of the information is held on a confidential basis. Each file consists of chemical analyses-percent water, gas, oil and spent shale-for one well core. The oil-shale averaging program uses the data base to compute thickness, grade, and resource for an entire core or selected zone in a core. Limited computer graphics are also available.

Documentation
1. USGS Open-File Report 341, 1975
2. Pitman and Saxe, 1978, NTIS report, approved by the Director
3. Watts and Van Trump, 1976, USGS Open-File Report 76-867

Date of This Information October 1979

62

Name PACIFIC/ARCTIC MULTICHANNEL DATA

Acronym PAMCD

Data Base Type Spatial

System That Accesses Data Base
MARINE INTEGRATED DATA ACQUISITION AND PROCESSING SYSTEM (MIDAPS)

Division/Office Geologic Division

Contact Person Donald H. Tompkins

Contact Telephone
(415) 323-8111 Ext 2070
(FTS) 467-2070

Contact Address
U.S. Geological Survey
Geologic Division
MS 79
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Marine 24-channel seismic-reflection data (2400%-fold)
Keywords
Marine; Multichannel; Reflection; Seismic
Geographical Coverage
Outer continental shelf and adjoining margins from the Mexican border to the Beaufort Sea
Spatial Data Type Line
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Marine 24-channel seismic-reflection data (2400%-fold)
Time Span of Data Collected
1975 to the present
Status of Data Base Operational
Users
National Oceanic and Atmospheric Administration Marine Data Base (Boulder, Colorado); U.S. Geological Survey geologists and geophysicists
Data Availability
Available for limited access
Output Media Microform
Storage Media
Magnetic tape; Microform; Paper copy
Size of Data Base
23,000 miles of seismic sections
Computer Residence
Data General Menlo Park, CA
Languages FORTRAN V
Abstract
Raw field tapes contain processed, 2400-percent, multichannel seismic data for sections for west coast of the United States from the Mexican border to the Beaufort Sea. The term "data base" applies to this unit only in sense that more than one person uses the data for research related to resource potential, geologic structure, and environmental factors.
Documentation None
Date of This Information October 1979

Name
PERMIAN BASIN WELL AND RESERVE FILE
Acronym PBW/RF
Data Base Type Spatial
System That Accesses Data Base AUEDPT
Division/Office Geologic Division
Contact Person Lawrence J. Drew
Contact Telephone
(703) 860-6446 (FTS) 928-6446
Contact Address
United States Geological Survey
Geological Division
Office of Resource Analysis
MS 920
Reston, VA 22092
Subject Coverage
Petroleum-well information
Keywords
Permian Basin; Petroleum-well Data
Geographical Coverage
Western Texas; Eastern New Mexico
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Purchased from Petroleum Information, Inc., Denver, CO
Time Span of Data Collected
1908 to 1976
Status of Data Base Operational
Users
Interagency Oil and Gas Supply Task Force Project; U.S. Geological Survey, Office of Resource Analysis
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base 208,000 records
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN IV
Abstract
There is data on 49 variables for each of the 208,000 wells. These variables include the hole location, operator, spud and completion dates, lake class, depth, flow rates, computer intervals, field code, name code, and show code. This information is used to fore-

cast future rates of discovery of petroleum deposits in the Permian basin.

Documentation None

Date of This Information October 1979

64

Name
PETROLEUM WELL HISTORY CONTROL SYSTEM

Acronym WHCS

Data Base Type Spatial

System That Accesses Data Base
Well History Control System

Division/Office Geologic Division

Contact Person Ted S. Dyman

Contact Telephone
(303) 234-6115 (FTS) 234-6115

Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
MS 971
Building 25 Denver Federal Center
Denver, CO 80225

Keywords
Energy; Oil; Oil Wells; Petroleum; Well Data; Well History Control System

Geographical Coverage
Eleven regional subdivisions of U.S.: (1) West Coast/Alaska, Rocky Mountain, Midcontinent, Michigan Basin, Appalachian and Illinois Basins, Permian Basin, Gulf Coast-East Texas, North Louisiana-South Arkansas, South Louiaiana/Offshore, Mississippi-Southeast, North Central Texas

Spatial Data Type Point

Coordinate System
Latitude/Longitude and Township, Range, and Section

Sources of Data in Data Base
Petroleum Information Corporation, P.O. Box 2612, 1640 Grant St., Denver, CO 80201, Phone (303) 825-2181

Time Span of Data Collected
1955 to 1972: partial coverage; 1972 to the present: full coverage

Status of Data Base Operational

Users
Academic institutions; All commercial petroleum companies; Bureau of Land Management; State geological surveys; U.S. Geological Survey

Data Availability Proprietary

Output Media
Interactive access; Magnetic tape; Batch computer printout; Publication; Microfiche

Storage Media Magnetic tape

Size of Data Base
1,024,000 records; Average 8,000 characters per record

Computer Residence
Petroleum Information Corporation; IBM-compatible system

Languages Proprietary software

Abstract
The Well History Control System is a historic file of more than 1,024,000 records, each representing data obtained in drilling wells for petroleum products. The system is updated monthly from records submitted from industry cooperatives. The system is owned and maintained by Petroleum Information Corp., a subsidiary of A. C. Nielsen Corp., although the USGS has purchased unlimited rights to the file (subject only to protection of petroleum industry proprietary interests). Extracts from the file are made primarily in batch mode by the petroleum industry, although a limited subset (Colorado Data) is now operating on Honeywell MULTICS, using FORTRAN retrieval. Microfiche output is also available.

Documentation
Well History Control System Users' Guide, Petroleum Information Corp., Nov., 1975; Well Data Tape Storage Format, 10/27/75, Petroleum Information Corp.

Comments
There are eleven other (smaller) data bases in the system not included in this inventory.

Date of This Information October 1979

65

Name PLATINUM FILE
Acronym CRIB/PLAT
Data Base Type Spatial
System That Accesses Data Base CRIB
Division/Office Geologic Division
Contact Person Norman J. Page
Contact Telephone
(415) 323-8111 Ext 2650
(FTS) 467-2650
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Western Mineral Resources
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Mineral resources information; Commodities
Keywords
Commodities; Deposits; Iridium; Osmium; Palladium; Platinum Metals; Rare Earth Metals; Rhodium; Ruthenium; Worldwide Platinum
Geographical Coverage Worldwide
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings
Sources of Data in Data Base
USGS geologists or technicians
Time Span of Data Collected
1973 to 1979
Status of Data Base Operational
Users U.S. Government geologists
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Publication
Storage Media Magnetic tape; Disc
Size of Data Base
2,999 variable-length records
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
The goal of the platinum file is to contain a record of every deposit or mine in the world which proves platinum group metal occurrence or potential. Data is obtained through literary research, and the PGM potential is determined by a commodity specialist (Norm Page). The information is then placed on a CRIB form (10(5-76)) and includes the deposit name, location, commodity information, geology, production, reserves, potential resources, and references. A continuous effort is made to keep all records current by updating an entry as new or pertinent data is found.
Documentation
Keefer, E. K., Calkins, J. A., 1977, Description of Individual Data Items and Codes in CRIB: Geological Survey Circular 755-B; Blair, W. N., et al., 1977, Map and list of reported occurrences of platinum group metals in the U.S.: USGS Miscellaneous Field Studies Map MF-861; Till, A., 1979, Map of Platinum occurrences in U.S.S.R.: USGS Miscellaneous Field Studies Map (in press).
Date of This Information October 1979

66

Name
PRODUCTION HISTORY FILE--PETROLEUM DATA SYSTEM
Acronym PDS/HISTORY
Data Base Type Spatial
System That Accesses Data Base
Petroleum Data System (PDS)
Division/Office Geologic Division
Contact Person Ted S. Dyman
Contact Telephone
(303) 234-6115 (FTS) 234-6115
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
MS 971
Building 25 Denver Federal Center
Denver, CO 80225
Subject Coverage
Oil and gas production data
Keywords
Energy; Gas; History; Oil; PDS; Production; Wells

Geographical Coverage State of Texas
Spatial Data Type Field
Coordinate System State, County
Sources of Data in Data Base
International Oil Scouts Association (IOSA)
Time Span of Data Collected
1942 to 1972
Status of Data Base Operational
Users
Petroleum industry; Federal agencies; State geological activities; Interested public
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout
Storage Media Magnetic tape
Computer Residence
General Electric Mark 3000 Timeshare Service through University of Oklahoma
Languages GIPSY
Abstract
The Production History File was developed by the IOSA under contract to the Federal Government. The data was utilized to create the Decline Curve Study required by the Department of Energy. The data consists of annual production figures and well counts by field for the years 1942-1972
Documentation
Petroleum Data System Information System Program Documentation Volumes I and II, Office of Research Administration, University of Oklahoma, Norman, OK. (3/77)
Comments
There are eleven other (smaller) data bases in the system not included in this inventory.
Date of This Information October 1979

67

Name RADIOMETRIC AGE DATA BANK
Acronym RADB
Data Base Type Spatial
System That Accesses Data Base GIPSY
Division/Office Geologic Division
Contact Person Richard Marvin
Contact Telephone
(303) 234-5531 (FTS) 234-5531
Contact Address
U.S. Geological Survey
Geologic Division
P.O. Box 25046 MS 963
Denver, CO 80225
Subject Coverage Radiometric ages
Keywords
Age Determinations; Geologic; Radiometric; Reference
Geographical Coverage
Wyoming; Minnesota; Michigan; and Wisconsin
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS geologists and various grants
Time Span of Data Collected
1975 to the present
Status of Data Base Under development
Users
American Association of Petroleum Geologists, U.S. Department of Commerce
Data Availability
Available to Federal agencies via the contact person above; eventually available to the general public via the National Oceanic and Atmospheric Administration (NOAA)
Output Media Batch computer printout
Storage Media Magnetic tape
Size of Data Base
6,100 records; Minimum of 300 characters per record; maximum of 3,000
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV; GIPSY
Abstract
This file is used to provide information concerning radiometric ages. It provides a rapid method for obtaining ages for various geologic periods, and serves as a reference library. A record in this file is a sample for which any of 1 to 5 age determinations have been made, these being K-A, Rb-Sr, Pb-Alpha, fission track, and U-Pb-Th. Each

record contains data about location, country, State, county, quadrangle, latitude, longitude; a rock description: petrographic name, description of mineral content, geologic unit code, age code, and petrographic code: an analytical section: a laboratory number, rock material analyzed, and the results of the various age determination methods which are used to calculate the actual age; and a reference section.

Documentation None

Date of This Information October 1979

68

Name RAINIER MESA (NEVADA TEST SITE)

Acronym RM

Data Base Type Spatial

Division/Office Geologic Division

Contact Person William S. Twenhofel

Contact Telephone
(303) 234-2112 (FTS) 234-2112

Contact Address
U.S. Geological Survey
Geologic Division
1526 Cole Boulevard
Denver West Building III
Golden, CO 80225

Subject Coverage
Rock physical properties

Keywords
Nevada; Nuclear; Rainier Mesa; Underground

Geographical Coverage State of Nevada

Spatial Data Type Point

Coordinate System
Nevada Test Site Coordinate System

Sources of Data in Data Base
Core samples

Time Span of Data Collected
1970 to the present

Status of Data Base Operational

Users
Defense Nuclear Agency (DNA) and DNA contractors; U.S. Geological Survey geologists and geophysicists

Data Availability
Available for limited access

Output Media Interactive access

Storage Media Magnetic tape

Size of Data Base
2,000 records; 500 characters per record

Computer Residence
HIS MULTICS Denver, CO

Languages FORTRAN IV

Abstract
This data base contains some 35 rock physical properties for each location in the Rainier Mesa, Nevada Test Site, where core has been sampled. This data is used in evaluating the requirements necessary for containment of Defense Nuclear Agency-sponsored undergound experiments in Rainier Mesa.

Documentation None

Date of This Information October 1979

69

Name ROCK ANALYSIS STORAGE SYSTEM

Acronym RASS

Data Base Type Spatial

System That Accesses Data Base
ROCK ANALYSIS STORAGE SYSTEM

Division/Office Geologic Division

Contact Person Lamont O. Wilch

Contact Telephone
(303) 234-3366 (FTS) 234-3366

Contact Address
U.S. Geological Survey
Geologic Division
P.O. Box 25046
Lakewood, CO 80225

Subject Coverage
Mineral-resource chemical investigations

Keywords
Age; Element; Field Number; Formation; Latitude/Longitude; Material Class; Sample Number; Sample Source; Sample Type

Geographical Coverage
Coverage consists of the United States (including Puerto Rico) and offshore; some foreign areas and countries are included, such as the continent of Antarctica, Brazil, England, most of the European countries, India, Saudia Arabia, and Viet Nam. Data for moon samples, some Pacific Islands,

Canada, Mexico and others are also included. (Foreign data is proprietary.)

Spatial Data Type Point

Coordinate System
Latitude/Longitude; UTM Northings and Eastings; Arbitrary X, Y coordinates

Sources of Data in Data Base
Geologic Division geologists and chemists; Samples of various materials, e.g. rock, soil, stream sediments, water, and gases, are collected by geologists and analyzed by chemists. Spectrographic and assorted wet-chemistry analytical methods are used, e.g., atomic absorption, colorimetric, and X-ray.

Time Span of Data Collected
1965 to the present

Status of Data Base
Operational; System now being rewritten

Users
U.S. Geological Survey, Geologic Division geologists

Data Availability
Available for limited acess

Output Media
Magnetic tape; Batch computer printout; Publication

Storage Media Magnetic tape; Disc

Size of Data Base
500,000 records; 75-100 characters per record

Computer Residence
HIS MULTICS Denver, CO

Languages
FORTRAN IV; New system in PL/1; MRDS

Abstract
The Rock Analysis Storage System was developed to store and retrieve chemical analyses using geologic and location attributes as query parameters. Some attributes are material, sample type, sample source, rock type, geologic age, rock name, formation, latitude and longitude, or, in some cases, UTM. Parameters of the coding scheme permit only certain characteristics of the sample and do not provide for a full description. Obviously, only observable characteristics can be coded at the time of collection; however, additional coding or corrections can be entered into the system at a later date. All analytical results for each element are stored separately according to the method and unit of measure. This data is consequently used in statistical analysis, plotting routines, and terminal graphics.

Documentation
Not documented at present time. New system now being written will be documented by the contractor, Potomac Research Incorporated.

Comments
Data stored in RASS may be requested by other agencies, as well as the public sector. The request will be handled by Roy Mendes (telephone 234-2438) or Steve McDanal (234-2361) in Denver, CO.

Date of This Information October 1979

70

Name SEISMIC DATA ANALYSIS SYSTEM

Acronym SEDAS

Data Base Type Spatial

Division/Office Geologic Division

Contact Person Bruce R. Julian

Contact Telephone
(303) 234-4041 (FTS) 234-4041

Contact Address
U.S. Geological Survey
Geologic Division
National Earthquake Information Service
P.O. Box 25046 MS 967
Denver, CO 80225

Subject Coverage
Earthquake--Seismic Data

Keywords
Earthquake; History; NEIS; Records; Seismic Data; Worldwide

Geographical Coverage Worldwide

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Monitoring stations collecting seismic data from approximately 2,100 stations around the world. Information is processed to determine the epicenter and magnitude of each earthquake.

Time Span of Data Collected
1978 to 1979

Status of Data Base Operational

Users
Private Industry; State governments; Universities

Data Availability
Available for limited access

Output Media
Interactive access; Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base
75,000 seismic wave readings

Computer Residence
HIS MULTICS Denver, CO

Languages
PL/1

Abstract
The National Earthquake Information Service (NEIS) is responsible for collecting seismic data from various monitoring stations around the world, determining the epicenter of each earthquake, and publishing the origin time, location, depth, magnitude, and other characteristics of each earthquake. The NEIS is located in Golden, Colorado, and receives information by real-time direct transmission from monitoring stations, by telecomunications from monitoring centers, by airmail delivery from stations outside the United States, by direct computer link, and from other sources available. The NEIS processes the data as soon as possible in order to determine the epicenter and magnitude of each earthquake. For severe earthquakes, the NEIS provides a quick epicenter determination service in order to mobilize emergency aid facilities. Additional processing of the data to determine the various earthquake characteristics leads to regularly published reports from the U.S. Geological Survey, which are distributed on a worldwide basis to every institute involved in earthquake research. Among these are the International Seismological Centre (ISC) and the NOAA Environmental Data Service, which maintain historic records on most known earthquakes. The data is acquired from participating analog and digital seismic recording stations, of which there are approximately 2,100 around the world. Of these, 700-800 stations are within the United States and transmit the seismic readings directly to Golden, Colo. Each seismic recording station is located by latitude, longitude, and elevation. Geographic coordinates of these stations are determined from USGS topographic maps and other maps as available. The location of stations in foreign countries, particularly all of the recording stations in the U.S.S.R., is less precise than that of stations in the United States.

Documentation
None. In late 1979, documentation will be written.

Date of This Information October 1979

71

Name
SESTON SAMPLE ANALYSES--PART 1 AND PART 2

Acronym
SS1xxx and SS2xxx (xxx is replaced by area and period codes for individual subsets)

Data Base Type Spatial

System That Accesses Data Base GRASP

Division/Office Geologic Division

Contact Person Norman G. Bailey

Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175

Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543

Subject Coverage
Water column information; Environmental studies

Keywords
Aquatic Microbiology; Biological Oceanography; Continental Shelf; Dissolved Organic Matter; Oceanography; Sea Water

Geographical Coverage
Atlantic coastal waters; Atlantic ocean over the Continental Shelf and Slope

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
USGS scientists and technicians; Seston samples collected at sea during scientific cruises and analyzed at laboratories of Woods Hole Oceanographic Institution under contract with the U.S. Geological Survey.

Time Span of Data Collected
1975 to 1977

Status of Data Base Under development

Users
Bureau of Land Management; National Oceanographic Data Center/EDS/NOAA; USGS, Branch of Atlantic-Gulf of Mexico Geology

Data Availability
Available for limited access

Output Media
Magnetic tape; Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base
1,534 SS1xxx records, 1,134 SS2xxx records

Computer Residence HP Woods Hole, MA

Languages
Manufacturer-supplied software

Abstract
The Seston analysis data has been formatted and entered into computer storage to get the data in machine-readable form to transmit to the National Oceanographic Data Center (NODC), EDS, NOAA in conformance with the USGS/NOAA data archiving agreements. The first half of the Seston database, (SS1xxx), contains 16 fields plus a key field that enables linking to a sample collection dataset. The second half, (SS2xxx), contains 11 fields plus the key field.

Documentation None

Date of This Information October 1979

72

Name STANDARD USBM CHEMICAL ANALYSES

Acronym BMALYT

Data Base Type Spatial

System That Accesses Data Base
NATIONAL COAL RESOURCES DATA SYSTEM

Division/Office Geologic Division

Contact Person M. Devereux Carter

Contact Telephone
(703) 860-7464 (FTS) 928-7464

Contact Address
U.S. Geological Survey
Geologic Division
MS 956
Reston, VA 22092

Subject Coverage
Coal chemical analyses

Keywords
Chemistry; Coal; Proximate Analysis; Ultimate Analysis

Geographical Coverage
All coal-bearing States in the United States

Spatial Data Type County basis

Sources of Data in Data Base
Bureau of Mines

Time Span of Data Collected
1900 to the present

Status of Data Base Operational

Users
Computer Sciences Corporation (provides access to many outside users); Department of the Interior Policy Analysis Office; State Geological Surveys; U.S. Army Corps of Engineers

Data Availability
Available for unlimited access

Output Media Interactive access

Storage Media Disc
Size of Data Base
53,000 records: 136 characters per record
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN IV; PL/1
Abstract
Standard Bureau of Mines chemical analyses (proximate, ultimate, BTU, ash softening temperature, free swelling index, and Hardgrove grind-ability index) on channel, tipple, and delivered coal samples. Analyses are located by State, county, nearest town and mine codes, and coal bed. Rank has been calculated by formulae of American Society for Testing and Materials.
Documentation None
Date of This Information October 1979

73

Name
STATE OF ARIZONA MINERAL RESOURCES FILE
Acronym CRIB/ARIZONA
Data Base Type Spatial
System That Accesses Data Base CRIB
Division/Office Geologic Division
Contact Person Kris H. Johnson
Contact Telephone
(415) 323-8111 Ext 2251
(FTS) 467-2251
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Western Mineral Resources
MS 41
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Mineral resource information; Base and precious metals
Keywords
Arizona; Commodity; History; Inventory; Mine; Mineral Deposits; Occurrence; Ore Minerals; Production; Prospects
Geographical Coverage
State of Arizona
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings
Sources of Data in Data Base
Published Literature: publications of the U.S. Geological Survey, Arizona State Bureau of Mines, and Bureau of Mines
Time Span of Data Collected
1972 to 1979
Status of Data Base Under development
Users U.S. Geological Survey
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Publication
Storage Media Disc
Size of Data Base
5,138 variable-length records
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
The Arizona Mineral Resources File is part of the U.S. Geological Survey's Computerized Resource Information Bank (CRIB). The file is composed of variable-length records containing data on occurrences, prospects, and mines, with emphasis on name, location, commodity information, geology, production, potential resources, and references.
Documentation
Calkins, James A., Kays, Olaf, and Keefer, Eleanor K., 1973, CRIB--the mineral resources data bank of the U.S. Geological Survey: U.S. Geological Survey Circular 681, 33 p.
Date of This Information October 1979

74

Name
STATE OF NEVADA MINERAL DATA FILE
Acronym CRIB/NEVADA
Data Base Type Spatial
System That Accesses Data Base CRIB
Division/Office Geologic Division
Contact Person David A. Dellinger

Contact Telephone
(415) 323-8111 Ext 2195
(FTS) 467-2195
Contact Address
U.S. Geological Survey
Western Mineral Resources
Geologic Division
MS 41
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Mineral resource information
Keywords
Commodity; Deposits; Geology; History; Inventory; Mine; Mineral Resources; Nevada; Occurrence; Ore Mineralogy; Prospect
Geographical Coverage State of Nevada
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings
Sources of Data in Data Base
All information is obtained through published literature, including: U.S. Geological Survey Publications, Nevada Bureau of Mines, Bureau of Mines, and thesis papers.
Time Span of Data Collected
1972 to 1979
Status of Data Base Operational
Users
Western Mineral Resources Branch
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Publication
Storage Media Disc
Size of Data Base
1,255 records; 783,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
The data base contains information on occurrences, prospects, and mines with emphasis on geology, especially host-rock type and ore mineralogy used in mineral resources evaluation of two-degree sheets. This is part of the National CRIB data base and resides in separate file.
Documentation
Calkins, James A., Kays, Olaf, and Keefer, Eleanor K., 1973, CRIB--the mineral resources data bank of the U.S. Geological Survey: U.S. Geological Survey Circular 681, 33 p.
Date of This Information October 1979

75

Name
STATE OF OREGON MINERAL RESOURCES FILE
Acronym CRIB/OREGON
Data Base Type Bibliographic
System That Accesses Data Base CRIB
Division/Office Geologic Division
Contact Person George W. Walker
Contact Telephone
(415) 323-8111 Ext 2285
(FTS) 467-2285
Contact Address
U.S. Geological Survey
Branch of Western Mineral Resources
MS 41
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Mineral resources information; Metal deposits; Commodities
Keywords
Commodities; Geology; History; Inventory; Metal Deposits; Mineral Deposits; Occurrence; Ore Minerals; Oregon; Production; Resources
Geographical Coverage State of Oregon
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings; State plane coordinates
Sources of Data in Data Base
State of Oregon, Department of Geology and Mineral Industries
Time Span of Data Collected
1978 to 1979
Status of Data Base Under development
Users
U.S. Geological Survey geologists; State Geologists
Data Availability
Available for unlimited access

Output Media Batch computer printout
Storage Media Disc
Size of Data Base
2,758 records; 1,446,330 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
The Oregon Mineral Resources File is a segment of the U.S. Geological Survey's Computerized Resource Information Bank (CRIB), a mineral inventory that enables systematic classification of mineral deposits in the U.S. The specific purpose of the Oregon File is to collect and organize information about mineral commodities in the state of Oregon. The Oregon File is composed of variable-length records; each record contains data characteristics of a single deposit or group of deposits. Records have been compiled by a diversity of researchers, including Conservation Division, Forest Service, Commodity Specialists, and Specialty file reporters (Guild and Weeks). Updating of the file is in process and provides the means to add data, eliminate irrelevant or inaccurate information, and delete duplicate records. Data fields covered are: name, location, commodity information, geology, production, exploration, and references.
Documentation
Calkins, James A., Kays, Olaf, and Keefer, Eleanor K. 1973, CRIB--the mineral resources data bank of the U.S. Geological Survey: U.S. Geological Survey Circular 681, 33 p.
Date of This Information October 1979

76

Name STATION/SAMPLE COLLECTION
Acronym STA004
Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Environmental assessment information
Keywords
Continental Shelf; Continental Slope; Marine Geology; Oceanography
Geographical Coverage
U.S. East Coast--Continental Shelf and Slope
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises.
Time Span of Data Collected
1975 to 1978
Status of Data Base Under development
Users
Bureau of Land Management; National Oceanographic Data Center/EDS/NOAA; National Geophysical and Solar-Terrestrial Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 2,460 records
Computer Residence HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs
Abstract
Contains 17 fields plus a key field to enable linkage to various analytical datasets. The data is computerized to enable transmittal in machine-readable form to the oceanographic (NODC) and marine

geological/geophysical (NGSDC) data centers in conformance with the USGS/ NOAA data-archiving agreements.

Documentation None

Date of This Information October 1979

77

Name
STRATIGRAPHIC INFORMATION RELATING TO COAL RESOURCES OF THE UNITED STATES

Acronym USTRAT

Data Base Type Spatial

System That Accesses Data Base
NATIONAL COAL RESOURCES DATA SYSTEM

Division/Office Geologic Division

Contact Person M. Devereux Carter

Contact Telephone
(703) 860-7464 (FTS) 928-7464

Contact Address
U.S. Geological Survey
Geologic Division
MS 956
Reston, VA 22092

Subject Coverage Coal stratigraphy

Keywords
Coal; Drill Hole; Stratigraphy

Geographical Coverage
All coal-bearing States in United States

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Companies; State geological survey geologists; USGS geologists;

Time Span of Data Collected
1974 to the Present

Status of Data Base Operational

Users
Computer Sciences Corporation (provides access to many outside users); Department of the Interior Policy Analysis Office; State Geological Surveys; U.S. Army Corps of Engineers

Data Availability
Available for limited access

Output Media Interactive access

Storage Media Disc

Size of Data Base
4,000 records; 200 characters per record

Computer Residence
HIS MULTICS Reston, VA

Languages FORTRAN IV; PL/1

Abstract
The data base contains stratigraphic information on coal-bearing rocks in the U.S. from drill-hole records and section measurements. It includes data on latitude/longitude, identification, thickness, name of unit, lithology, color, grain size and shape, mineralogy, bedding, contact, fossils, fractures, joints, and cleats.

Documentation None

Date of This Information October 1979

78

Name
STRONG MOTION INFORMATION RETRIEVAL SYSTEM

Acronym SMIRS

Data Base Type Spatial

Division/Office Geologic Division

Contact Person April Converse

Contact Telephone
(415) 323-8111 (FTS) 467-2881

Contact Address
U.S. Geological Survey
Geologic Division
Branch of Seismic Engineering
MS 78
345 Middlefield Road
Menlo Park, CA 94025

Subject Coverage
Earthquakes--strong motion

Keywords
Accelerograph; Earthquake; Epicenter; History; Strong Motion

Geographical Coverage
Currently describes only those strong-motion records and stations for which the U.S. Geological Survey has a primary responsibility

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
USGS geologists in the Branch of Seismic Engineering

Time Span of Data Collected
1932 to the present

Status of Data Base Operational

Users
State governments; Universities
Data Availability
Available for unlimited access
Output Media Interactive access
Storage Media Magnetic tape; Disc
Size of Data Base 5,000 entries
Computer Residence
HIS MULTICS Menlo Park, CA
Languages GIPSY
Abstract
Descriptions of strong-motion accelerograph records and the circumstances in which the records were recorded are made available to persons involved in earthquake engineering through this system. The information is continually updated by Branch members as new information is gathered about earthquakes that have produced significant strong-motion records, the recording sites, the records recovered, and the extent of the analysis that has been performed on the records. The strong-motion information has been arranged into several data sets. The three major data sets are the record descriptions, the station descriptions, and the event descriptions. An entry in the records data set will contain the following: (1) identification of the event that triggered the record, (2) identification of the recording site, (3) epicentral distance and site intensity, (4) the peak acceleration on the record, (5) indication whether digitization and analysis have been performed, and (6) references to papers that have been written about the data. An entry in the stations data set will include the following: (1) the station identification, or station number, and address, (2) its latitude and longitude, and (3) structure and foundation geology information. An entry in the events data set will contain the following: (1) date and time of the event, (2) the epicenter's latitude and longitude, and (3) magnitude and maximum intensity.
Documentation
Only in draft form at this time
Date of This Information October 1979

79.

Name SUSPENDED MATTER
Acronym SUSMAT
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Water column information; Environmental studies
Keywords
Continental Shelf; Geologic Processes; Ocean Bottom; Oceanography; Sea Water; Sedimentology
Geographical Coverage
Atlantic Coast; Continental Shelf
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists or technicians; Samples collected at sea during scientific cruises
Time Span of Data Collected 1975
Status of Data Base Under development
Users
Bureau of Land Management; National Oceanographic Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Interactive access; Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base
823 records; 132 characters per record

Computer Residence HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor Programs
Abstract
Contains 19 fields of information plus a key field for linkage to a sample collection dataset named STA004.
Documentation None
Date of This Information October 1979

80

Name SUSPENDED SEDIMENTS
Acronym SUSED0
Data Base Type Spatial
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Water column information; Environmental studies
Keywords
Continental Shelf; Geologic Processes; Ocean Bottom; Oceanography; Sea Water; Sedimentology
Geographical Coverage
Atlantic Coast; Continental Shelf
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises
Time Span of Data Collected 1975
Status of Data Base Under development
Users
Bureau of Land Management; National Oceanographic Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 29 records
Computer Residence HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs
Abstract
Contains 15 fields of data plus a key field for linkage to a sample collection dataset called STA004.
Documentation None
Date of This Information October 1979

81

Name
THERMODYNAMIC PROPERTIES OF MINERALS AN RELATED SUBSTANCES AT 298.15 K AND 1 BAR (10^5 PASCALS PRESSURE AND AT HIGHER TEMPERATURES)
Acronym THERMO PROP
Data Base Type Bibliographic
System That Accesses Data Base
Unnamed
Division/Office Geologic Division
Contact Person Bruce S. Hemingway
Contact Telephone
(703) 860-7400 (FTS) 928-7400
Contact Address
U.S.Geological Survey
Geologic Division
Office of Geochemistry and Geophysics
MS 959
Reston, VA 22092
Subject Coverage
Thermodynamic properties of minerals and related substances
Keywords
Enthalpy; Entropy; Gibbs Free Energy; Heat Capacity; Thermodynamic Data
Sources of Data in Data Base
U.S. Geological Survey geologists
Time Span of Data Collected
1900 to 1978
Status of Data Base Operational

Users
Bureau of Mines; Geology and Chemistry Departments of universities
Data Availability
Available for unlimited access
Output Media Publication
Storage Media
Magnetic tape; Punched cards
Size of Data Base 500,000 bytes
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN
Abstract
Selected values for the entropy (S^o), molar volume (V^o), and for the enthalpy and Gibbs free energy of formation (ΔH^o_f, and ΔG^o_f) are given for the elements, 133 oxides, and 212 other minerals and related substances at 298.15 K. For those materials for which high-temperatures heat-capacity or heat-content data are also available $(H^o_T - H^o298)/T$, S^o_T, $(G^o_T - H^o298)/T$, C^o_p; $\Delta H^o_{f,T}$, $\Delta G^o_{f,T}$ and Log $K_{f,T}$ are tabulated at 100 K intervals for temperatures up to 1,800 K. For substances that have solid-state phase changes or whose melting or boiling point is less than 1,800 K, we have also tabulated the properties listed above at the temperature of the phase change, so that the enthalpy or entropy change associated with the transformation form an integral part of the high-temperature tables.
Documentation
Robie, Richard A., Hemingway, Bruce S., and Fisher, James R., USGS Bulletin 1452, Reprinted 1979, Superintendent of Documents Stock Number 024-001-03065-9, 456 p.
Date of This Information October 1979

Name TRACE METALS ANALYSES
Acronym TRMETS
Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office Geologic Division
Contact Person Norman G. Bailey
Contact Telephone
(617) 548-8700 Ext 175
(FTS) 837-4175
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Atlantic-Gulf of Mexico Geology
Building B, Quissett Campus
Woods Hole, MA 02543
Subject Coverage
Environmental assessment information
Keywords
Continental Shelf; Continental Slope; Marine Geology; Metals
Geographical Coverage
U.S. East Coast--Continental Shelf and Slope
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS scientists and technicians; Samples collected at sea during scientific cruises.
Time Span of Data Collected
1975 to 1978
Status of Data Base Under development
Users
Bureau of Land Management; National Geophysical and Solar Terrestrial Data Center/EDS/NOAA; U.S. Geological Survey, Branch of Atlantic-Gulf of Mexico Geology
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base 267 records
Computer Residence
HP Woods Hole, MA
Languages
HP21MX RTE-4 System; File Manager and Editor programs

Abstract
Contains 16 fields plus a key field to enable linkage to a sample collection information dataset called STA004. The data is computerized to enable transmittal in machine-readable form to the National Geophysical and Solar-Terrestrial Data Center (NGSDC) in conformance with the USGS/NOAA data-archiving agreements.
Documentation None
Date of This Information October 1979

83

Name U.S. COPPER DEPOSITS
Acronym CU
Data Base Type Spatial
System That Accesses Data Base GRASP
Division/Office Geologic Division
Contact Person Dennis P. Cox
Contact Telephone
(415) 323-8111 Ext 2310
(FTS) 467-2310
Contact Address
U.S. Geological Survey
Geologic Division
Office of Mineral Resources
MS 41
345 Middlefield Road
Menlo Park, CA 94025
Subject Coverage
Special purpose file to answer specific questions on major copper mines of the United States
Keywords
Copper; Metallurgy; Metals; Mineral Resources; Mines; Production; Reserves
Geographical Coverage
Major copper mines of the United States
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Published mining magazines
Time Span of Data Collected
1970 to the present
Status of Data Base Operational
Users USGS geologists
Data Availability
Some proprietary data is not available. Nonproprietary is available via CRIB.
Output Media Interactive access
Storage Media Disc
Size of Data Base 89 records
Computer Residence
HIS MULTICS Reston, VA
Languages FORTRAN
Abstract
This file contains reserve, production, and resource data on major copper mines of the United States This file also contains information concerning the deposit type, ore type, mining method, deposit age, first production year, percentages of metals, average grades, cutoff grades production capability, and planned capacity. An interactive FORTRAN program has been written to calculate total U.S. copper production capacity or reserves for any given year in the future. Eventual file use will include prediction of the number of copper mines that must be discovered and developed in any given year to satisfy national needs.
Documentation None
Date of This Information October 1979

84

Name
U.S.G.S./DNA PHYSICAL PROPERTIES DATA BANK
Acronym PPDB
Data Base Type Spatial
System That Accesses Data Base
U.S.G.S./DNA PHYSICAL PROPERTIES STORAGE AND RETRIEVAL SYSTEM
Division/Office Geologic Division
Contact Person George E. Brethauer
Contact Telephone
(303) 234-2371 (FTS) 234-2371
Contact Address
U.S. Geological Survey
Geologic Division
Office of Environmental Geology
MS 954
Golden, CO 80225

Subject Coverage
Measured physical properties
Keywords
Nevada Test Site; Nuclear; Physical Properties; Rainier Mesa
Geographical Coverage
Rainier Mesa, Nevada Test Site
Spatial Data Type
Sample points in tunnels
Coordinate System
State Plane coordinates
Sources of Data in Data Base
Measured physical property data from tunnels in Rainier Mesa, Nevada Test Site
Time Span of Data Collected
1971 to the present
Status of Data Base Operational
Users
Defense Nuclear Agency; U.S. Geological Survey
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout
Storage Media Disc
Size of Data Base
2,000 records; 200 characters per record
Computer Residence
HIS MULTICS Denver, CO
Languages
FORTRAN IV (Multics version 6.5)
Abstract
The USGS/DNA Physical Properties Data Bank is used in conjunction with other methods to determine the safety of a geologic site in Rainier Mesa for emplacement of an underground nuclear device. The records contain information on the spatial location and other location information for 34 physical properties. Built-in interactive options allow subset sorting of data based on geologic parameters and (or) spatial coordinates. Output is in three selectable formats: data input format, tabular printout of selected data, and a statistics table of data.
Documentation None
Date of This Information October 1979

Name U.S. OIL AND GAS ROCK CENSUS
Acronym ANOGRE FILE
Data Base Type Spatial
System That Accesses Data Base
ANOGRE (Accelerated National Oil and Gas Resource Evaluation)
Division/Office Geologic Division
Contact Person Lonnie Alley
Contact Telephone
(303) 234-4750 (FTS) 234-4750
Contact Address
U.S. Geological Survey
Geologic Division
Branch of Oil and Gas Resources
MS 940
Denver Federal Center
Denver, CO 80225
Subject Coverage
Location, extent, thickness, age, and degree of exploration (as of 1974) of all potential oil and gas host rocks
Keywords
Gas; Oil; Potential Reservoirs
Geographical Coverage
Conterminous 48 States onshore
Spatial Data Type
Oil and gas field engineering and geological data
Coordinate System States, Counties
Sources of Data in Data Base
(1) Stratigraphic manuscript-maps of the U.S.; (2) Rand-McNally Atlas for county areas; (3) Petroleum Information Corporation's Well History Control System
Time Span of Data Collected 1974
Status of Data Base Operational
Users USGS geologists
Data Availability
Available for unlimited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
4,000 records; 40 to 80 characters per record.
Computer Residence
DEC and HIS MULTICS Denver, CO
Abstract
The U.S. Oil and Gas Rock Census is a small, specialized data file that contains the rock thickness, areal

extent by county, rock volume, and degree of borehole penetration of all rocks in the conterminous 48 States onshore that have been adjudged by geologists suitable to act as host rocks to oil or gas pools as of 1974.

Documentation None

Date of This Information October 1979

86

Name WELL CORE LIBRARY FILE

Acronym CORE-DATA

Data Base Type Spatial

Division/Office Geologic Division

Contact Person Robert J. Cassidy

Contact Telephone
(303) 234-3435 (FTS) 234-3435

Contact Address
U.S. Geological Survey
Geologic Division
Office of Energy Resources Oil and Gas Branch
MS 971 Denver Federal Center
Denver, CO 80225

Subject Coverage
Oil-well cores; Operators; Locations; Top depth (footage drilled)

Keywords
Cores; Gas Well; Oil Well; Stratigraphic; Unique Well Number

Geographical Coverage
Western United States

Spatial Data Type Grid

Coordinate System
Township, Range, and Section

Sources of Data in Data Base
Various well operators; Petroleum Information Corporation, J. Fitzgerald, 1375 Delaware, P.O. Box 2612, Denver, CO 80201

Time Span of Data Collected
1930 to the present

Status of Data Base Under development

Users
USGS, Geologic Division, Office of Energy Resources, Oil and Gas Branch; Various well operators

Data Availability
Available for limited access

Output Media
Interactive access; Magnetic tape; Batch computer printout

Storage Media Disc; MULTICS segment

Size of Data Base 100 MULTICS pages

Computer Residence
HIS MULTICS Denver, CO

Languages PL/1

Abstract
CORE-DATA is a retrieval program of the USGS/OGR. It allows the user to retrieve selected data by location (latitude, longitude), geologic age, API#, USGS LIB#, well operator, formation, or State. This program operates interactively with the HIS. All core data stored at the USGS Core Library in Denver is available in the data file searched by CORE-DATA.

Documentation None

Date of This Information October 1979

87

Name WORLD FLUORSPAR RESOURCES

Acronym WFR

Data Base Type Spatial

Division/Office Geologic Division

Contact Person Paul G. Schruben

Contact Telephone
(703) 860-6455 (FTS) 928-6455

Contact Address
U.S. Geological Survey
Geologic Division
MS 920
Reston, VA 22092

Subject Coverage
Mineral resources information; Fluorspar

Keywords
Barites; Commodity; Fluorspar; Nonmetallic Minerals

Geographical Coverage Worldwide

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
USGS Reston Library and Commodity Specialist Ralph E. Van Alstine

Time Span of Data Collected 1975

Status of Data Base Operational

Users
USGS geologists; General public

Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout
Storage Media Disc
Size of Data Base 113 records
Computer Residence
HIS MULTICS Reston, VA; Denver, CO; and Menlo Park, CA; IBM 370/155 Reston, VA
Languages FORTRAN IV; GRASP; GIPSY
Abstract
The World Fluorspar Resources data base, accessed through the Computerized Resources Information Bank (CRIB), consists of mineral-deposit data in a computer-accessible form. Entries for deposit name, location, commodity type, exploration history, geology, production, and reserves are retrievable via GIPSY or GRASP.
Documentation None
Date of This Information October 1979

OFFICE OF LAND INFORMATION AND ANALYSIS

88

Name COAL BIBLIOGRAPHY
Acronym COALREC
Data Base Type Bibliographic
Division/Office
Office of Land Information and Analysis
Contact Person Olaf Kays
Contact Telephone
(703) 860-7288 (FTS) 928-7288
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
RALI Program
MS 750
Reston, VA 22092
Subject Coverage
Coal and energy impact assessment
Keywords
Coal Energy; Impact Assessment
Geographical Coverage United States
Sources of Data in Data Base
Selected publications
Time Span of Data Collected
1971 to 1978
Status of Data Base Under development
Users
Office of Land Information and Analysis, RALI Program
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Publication
Storage Media Magnetic tape; Disc
Size of Data Base 96 records
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY
Abstract
Lists title, author, and publisher of coal and energy impact literature and provides a permuted title index. The GIPSY program is being used to compile a bibliography for publication.
Documentation None
Date of This Information October 1979

89

Name
DIGITAL LAND USE AND LAND COVER DATA
Acronym LUDA
Data Base Type Spatial
System That Accesses Data Base GIRAS
Division/Office
Office of Land Information and Analysis
Contact Person William B. Mitchell
Contact Telephone
(703) 860-7796 (FTS) 928-7796
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
Geographic Information Systems Branch
MS 710
Reston, VA 22092

Subject Coverage
Land-use and land-cover data; Political boundaries; Census tracts; Hydrologic units; Federal land ownership

Keywords
Census Tract Boundaries; County Boundaries; Hydrologic Units; Land Cover; Land Use

Geographical Coverage
Scattered 1:250,000 scale topographic quadrangles for Kansas, Pennsylvania, Florida, West Virginia, Alabama, New Jersey, Gulf Coast, Pacific Coast

Spatial Data Type Polygon

Coordinate System
UTM Northings and Eastings

Sources of Data in Data Base
Land-use and land-cover maps and compilation material

Time Span of Data Collected
1972 to the present

Status of Data Base Operational

Users
Bureau of the Census; Forest Service State cooperators; U.S. Fish and Wildlife Service

Data Availability
Available for unlimited access

Output Media
Magnetic tape; Publication

Storage Media Magnetic tape; Disc

Size of Data Base 200,000,000 bytes

Computer Residence
IBM 370/155 Reston, VA

Language FORTRAN

Abstract
The U.S. Geological Survey is currently producing land-use and land-cover maps and associated overlays for the entire United States. These maps are being digitized, edited, and incorporated into a digital data base. The data will be available to the public in both graphic and digital form. These maps will help satisfy a longstanding need for a consistent level of detail, standardization of categories, and consistent use of scales of compilation for a type of data used by government land-use planners, land managers, and resource-management planners. Once this bench-mark series of maps is completed, updating of the maps will provide a much-needed tool for analyzing trends, problems in local and regional areas throughout the entire United States, and changes in land-use patterns.

Documentation
Mitchell, W. B., Guptill, S. C., Anderson, K. E., Fegeas, R. G., and Hallam, C. A., 1977, GIRAS: A Geographic Information Retrieval and Analysis System for Handling Land Use and Land Cover Data: U.S. Geological Survey Professional Paper 1059, 16 p.

Date of This Information October 1979

90

Name
LAND COVER DATA FROM LANDSAT OF BOISE, ID, 1975

Acronym LCLS-BOISE75

Data Base Type Spatial

Division/Office
Office of Land Information and Analysis

Contact Person Leonard J. Gaydos

Contact Telephone
(415) 965-6368 (FTS) 448-6368

Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035

Subject Coverage
Land-use and land-cover data for Boise, Idaho; Automated digital cartography; Remote sensing; LANDSAT; Multispectral-scanner digital data

Keywords
Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation

Geographical Coverage
Boise, ID, Quadrangle

Spatial Data Type Grid

Coordinate System
UTM Northings and Eastings

Sources of Data in Data Base
Computer processing of LANDSAT multispectral-scanner data
Time Span of Data Collected 1975
Status of Data Base Operational
Users
Ada County Planning Association; NASA Ames Research Center; Pacific Northwest Regional Commission; U.S. Geological Survey, Office of Land Information and Analysis, Geography Program
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
2,660 records; 3,985 bytes per record
Computer Residence
IMB 360/67 Ames Research Center, Moffett Field, CA
Languages PL/1
Abstract
Land cover of the Boise, ID, Quadrangle (1:250,000 scale) was mapped from LANDSAT multispectral scanner data acquired during a LANDSAT pass on 5 August 1975 (ID 2194-17523). Spectral classes were defined by USGS analysts working with NASA Ames Research Center, the Pacific Northwest Regional Commission, and the Ada County Planning Association. The EDITOR system, developed by the Center for Advanced Computation, University of Illinois, was used to conduct the analysis.
Documentation None
Date of This Information October 1979

91

Name
LAND COVER DATA FROM LANDSAT OF E. SNAKE RIVER, ID, 1975
Acronym LCLS-ESNAKE75
Data Base Type Spatial
Division/Office
Office of Land Information and Analysis
Contact Person Leonard J. Gaydos
Contact Telephone
(415) 965-6368 (FTS) 448-6368
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035
Subject Coverage
Land-use and land-cover data
Keywords
Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation
Geographical Coverage
Eastern Idaho; Idaho
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings
Sources of Data in Data Base
Computer processing of LANDSAT multispectral-scanner data
Time Span of Data Collected 1975
Status of Data Base Operational
Users
Idaho Department of Water Resources; NASA Ames Research Center; Pacific Northwest Regional Commission; U.S. Geological Survey, Office of Land Information and Analysis, Geography Program
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
2,048 records; 1,626 bytes per record
Computer Residence
IBM 360/67 Ames Research Center, Moffett Field, CA
Language PL/1
Abstract
Land cover and crop types of an area in eastern Idaho were mapped from multitemporal LANDSAT multispectral-scanner data acquired during 1975. Scenes from 30 May 1975 (ID's 5041-17200 and 5041-17203) were registered to scenes from 2 Aug 75 (ID's 2192-17345 and 2192-17352). Spectral classes were defined by USGS analysts using the EDITOR system developed by the Center for Advanced Computation,

University of Illinois The project was conducted with the cooperation of NASA Ames Research Center, the Pacific Northwest Regional Commission, and the Idaho Department of Water Resources.

Documentation

Ellefsen, Richard A., and others, Computer-aided mapping of land use and land cover using LANDSAT multispectral-scanner data. Ch. VII, in land-use and land-cover maps and statistics from remotely sensed data, Anderson, James R., ed., RSEMS (Remote Sensing of the Electromagnetic Spectrum), Oct. 1977

Date of This Information October 1979

92

Name

LAND COVER DATA FROM LANDSAT OF NEVADA, 1972

Acronym LCLS-NEVADA72

Data Base Type Spatial

Division/Office

Office of Land Information and Analysis

Contact Person Leonard J. Gaydos

Contact Telephone

(415) 965-6368 (FTS) 448-6368

Contact Address

U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035

Subject Coverage

Land-use and land-cover data; LANDSAT; Remote sensing; Automated digital cartography; Multispectral-scanner digital data; Nevada; California

Keywords

Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation

Geographical Coverage

Nevada; California

Spatial Data Type Grid

Coordinate System

UTM Northings and Eastings

Sources of Data in Data Base

Computer processing of LANDSAT multispectral-scanner data

Time Span of Data Collected 1972

Status of Data Base Operational

Users

U.S. Geological Survey, Office of Land Information and Analysis, Geography Program

Data Availability

Available for limited access

Output Media Magnetic tape

Storage Media Magnetic tape

Size of Data Base

2,660 records; 4,044 bytes per record

Computer Residence

IBM 360/67 Ames Research Center, Moffett Field, CA

Languages PL/1

Abstract

Land cover of Nevada and parts of adjacent California were mapped from digitally enhanced and mosaicked LANDSAT multispectral-scanner data. The data were mosaicked from 31 separate LANDSAT scenes acquired mostly from September 1972 by the USGS Image Processing Facility, Flagstaff, AZ. USGS analysts used the EDITOR system developed by the Center for Advanced Computation, University of Illinois, to define spectral signatures and classify the mosaicked scene into land-cover classes. The original data was prepared for geologic interpretation and was found to be suboptimal for vegetation and land-cover mapping.

Documentation

Schwarz, Deborah, and Acevedo, William, Spectral signature extension for land-cover classification from LANDSAT digital data: A Nevada example: AAG Program Abstracts, Association of American Geographers, 1978

Date of This Information October 1979

93

Name
LAND COVER DATA FROM LANDSAT OF PHOENIX, AZ, 1973
Acronym LCLS-PHOENIX73
Data Base Type Spatial
Division/Office
Office of Land Information and Analysis
Contact Person Leonard J. Gaydos
Contact Telephone
(415) 965-6368 (FTS) 448-6368
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035
Subject Coverage
Land-use and land-cover data; LANDSAT; Remote sensing; Automated digital cartography; Multispectral-scanner digital data; Arizona; Phoenix; Maricopa County, AZ
Keywords
Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation
Geographical Coverage
Phoenix, AZ; Maricopa County, AZ
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings
Sources of Data in Data Base
Computer processing of LANDSAT multispectral-scanner data
Time Span of Data Collected 1973
Status of Data Base Operational
Users
Office of Land Information and Analysis, Geography Program
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
727 records; 1,145 bytes per record
Computer Residence
IBM 360/67 Ames Research Center, Moffett Field, CA
Language PL/1
Abstract
Land cover of Phoenix, AZ, and surrounding Maricopa County was mapped from multitemporal LANDSAT multispectral-scanner data acquired 16 October 1972 (ID 1283-17334) and 2 May 1963 (ID 1085-17330). The data was registered and then analyzed by USGS analysts using the EDITOR system developed by the Center for Advanced Computation, University of Illinois. Earlier work in defining spectral classes was done by USGS analysts at the Laboratory for Applications of Remote Sensing, Purdue University.
Documentation
Ellefsen, R. A., Gaydos, Leonard, and Wray, J. R., Computer-aided mapping of land use using ERTS multispectral scanner data: Primer Congreso Panamerican y Tercero Nacional de Fotogrametria Fotointerpretacion y Geodesia, Mexico City, July 1974
Date of This Information October 1979

94

Name
LAND COVER DATA FROM LANDSAT OF PUGET SOUND, WA, 1975
Acronym LCLS-PUGET75
Data Base Type Spatial
Division/Office
Office of Land Information and Analysis
Contact Person Leonard J. Gaydos
Contact Telephone
(415) 965-6368 (FTS) 448-6368
Contact Address
U.S. Geolgical Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035
Subject Coverage
Land-use and land-cover data; Washington; Puget Sound; Automated digital cartography; Remote sensing; LANDSAT; Multispectral scanner digital data

Keywords
Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation
Geographical Coverage
Washington State; Puget Sound region
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings
Sources of Data in Data Base
Computer processing of LANDSAT multispectral scanner data
Time Span of Data Collected 1975
Status of Data Base Operational
Users
City of Tacoma; Jefferson-Port Townsend Regional Council; King County; Kitsap County; Mason County; Metro; NASA Ames Research Center; Pacific Northwest Regional Commission; Pierce County; Puget Sound Council of Governments; Snohomish County; Thurston County; University of Washington; U.S. Geological Survey, Office of Land Information and Analysis, Geography Program; Washington Department of Ecology; Washington Department of Game; Washington Office of Community Development;
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
2,578 records; 3,925 bytes per record
Computer Residence
IBM 360/67 Ames Research Center, Moffett Field, CA
Language PL/1
Abstract
Land cover of the Puget Sound region, Washington, was mapped from LANDSAT multispectral-scanner data acquired during a LANDSAT pass on 23 July 1975 (ID 2182-18201). Fifty-two spectral classes were defined by USGS analysts working with NASA Ames Research Center, the Pacific Northwest Regional Commission, and State and local agencies from the region. The EDITOR system, developed by the Center for Advanced Computation, University of Illinois, was used to conduct the analysis.
Documentation
Ellefsen, Richard A., and others, Computer-aided mapping of land use and land cover using LANDSAT multispectral data. Chapter VII in land-use and land-cover maps and statistics from remotely sensed data, Anderson, James R., (ed), RSEMS (Remote Sensing of the Electromagnetic Spectrum), October 1977. Gaydos, Leonard, and Newland, W. L., 1978, Inventory of land use and land cover of the Puget Sound Region using LANDSAT digital data: U.S. Geological Survey, Journal of Research, V. 6, No. 6
Date of This Information October 1979

95

Name
LAND COVER DATA FROM LANDSAT OF WASHINGTON, DC, 1973
Acronym LCLS-WASH73
Data Base Type Spatial
Division/Office
Office of Land Information and Analysis
Contact Person Leonard J. Gaydos
Contact Telephone
(415) 965-6368 (FTS) 448-6368
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035
Subject Coverage
Land-use and land-cover data; Washington, DC; Maryland; Virginia; Automated digital cartography; Remote sensing; LANDSAT; Multispectral-scanner digital data
Keywords
Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation

Geographical Coverage
District of Columbia; Maryland; Virginia
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings
Sources of Data in Data Base
Computer processing of LANDSAT multispectral-scanner data
Time Span of Data Collected 1973
Status of Data Base Operational
Users
IBM Corporation; U.S. Bureau of the Census; U.S. Geological Survey, Office of Land Information and Analysis, Geography Program
Data Availability
Available for limited access
Output Media
Magnetic tape
Storage Media
Magnetic tape
Size of Data Base
787 records; 985 bytes per record
Computer Residence
IBM 360/67 Ames Research Center, Moffett Field, CA
Languages
PL/1
Abstract
Land cover of the Washington, DC, urban area was mapped from LANDSAT multispectral-scanner data acquired during passes on October 11, 1972, and April 9, 1973 (Scene ID's 1080-15192 and 1260-15201). The data was registered, each pass to the other, and then, registered to the UTM projection. Twenty-six spectral classes were defined by USGS analysts using facilities at the Laboratory for Applications of Remote Sensing, Purdue University. These classes have been identified as 11 land-cover classes. Multispectral classification was done using the ILLIAC IV parallel-processing computer at Ames Research Center, CA, using the EDITOR system developed by the Center for Advanced Computation, University of Illinois.
Documentation
Gaydos, Leonard, Wray, J. R., and Guptill, S. C., 1976, Digital land-cover classification of the Washington urban area derived from LANDSAT data, 1972 and 1973: U.S. Geological Survey Geography Program magnetic tape DOI/DF-77/003. Available from National Technical Information Service, Springfield, VA 22161, as PB-264 650/3WN.
Gaydos, Leonard, and Wray, J. R., 1978, Land cover from LANDSAT, District of Columbia, Maryland, and Virginia, 1977, scale 1:100,000, U.S. Geological Survey Map I-858-F
Date of This Information October 1979

96

Name
LAND COVER DATA FROM LANDSAT OF WESTERN SNAKE RIVER, ID, 1975
Acronym LCLS-WSNAKE75
Data Base Type Spatial
Division/Office
Office of Land Information and Analysis
Contact Person Leonard J. Gaydos
Contact Telephone
(415) 965-6368 (FTS) 448-6368
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035
Subject Coverage
Land-use and land-cover data; LANDSAT; Remote sensing; Automated digital cartography; Multispectral-scanner digital data; Idaho
Keywords
Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation
Geographical Coverage
Western Snake River, Idaho
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings

Sources of Data in Data Base
Computer processing of LANDSAT multispectral-scanner data
Time Span of Data Collected 1975
Status of Data Base Operational
Users
Idaho Department of Water Resources; NASA Ames Research Center; Pacific Northwest Regional Commission; U.S. Geological Survey, Office of Land Information and Analysis, Geography Program
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
443 records; 1,757 bytes per record
Computer Residence
IBM 360/67 Ames Research Center, Moffett Field, CA
Language PL/1
Abstract
Land cover and crop types of an area in western Idaho along the Snake River were mapped from multispectral-scanner data from LANDSAT using data from 13 August 1975 (ID 5116-17331). Spectral classes were defined by USGS analysts using the EDITOR system developed by the Center for Advanced Computation, University of Illinois. The project was conducted with the cooperation of NASA Ames Research Center, the Pacific Northwest Regional Commission, and the Idaho Department of Water Resources.
Documentation
Ellefsen, Richard A., and others, Computer-aided mapping of land use and land cover using LANDSAT multispectral-scanner data. Ch. VII, in land-use and land-cover maps and statistics from remotely sensed data, Anderson, James R., ed., RSEMS (Remote Sensing of the Electromagnetic Spectrum), Oct. 1977
Date of This Information October 1979

Name
LAND COVER DATA FROM LANDSAT OF WESTERN WASHINGTON STATE, 1974
Acronym LCLS-WWASH74
Data Base Type Spatial
Division/Office
Office of Land Information and Analysis
Contact Person Leonard J. Gaydos
Contact Telephone
(415) 965-6368 (FTS) 448-6368
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Geography Program
NASA Ames Research Center 240-8
Moffett Field, CA 94035
Subject Coverage
Land-use and land-cover data; Washington; Oregon; British Columbia; Automated digital cartography; Remote sensing; LANDSAT; Multispectral-scanner digital data
Keywords
Geographic Information; Land Cover; Land Use; LANDSAT; Multispectral Scanner; Vegetation
Geographical Coverage
Washington; Oregon; British Columbia; Puget Sound Region
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings
Sources of Data in Data Base
Computer processing of LANDSAT multispectral-scanner data
Time Span of Data Collected 1974
Status of Data Base Operational
Users
City of Tacoma; Jefferson-Port Townsend Regional Council; NASA Ames Research Center; King County; Kitsap County; Mason County; Metro; Pacific Northwest Regional Commission; Pierce County; Puget Sound Council of Governments; Snohomish County; Thurston County; University of Washington; U.S. Geological Survey, Office of Land Information and Analysis, Geography Program;

Washington Department of Game; Washington Office of Community Development

Data Availability
Available for limited access

Output Media Magnetic tape

Storage Media Magnetic tape

Size of Data Base
File 1: 2,578 records; 3,925 bytes per record. File 2: 2,754 records; 3,441 bytes per record. File 3: 2,593 records; 3,761 bytes per record

Computer Residence
IBM 360/67 Ames Research Center, Moffett Field, CA

Language PL/1

Abstract
Land cover of western Washington and adjacent parts of Oregon and British Columbia was mapped from LANDSAT multispectral-scanner data acquired during a LANDSAT pass on 13 June 1974. Three consecutive scenes (1690-18243, 1690-18245, 1690-18252) were mapped using spectral signatures based on the central scene covering the Puget Sound region. Thirty-eight spectral classes were defined by USGS analysts working with NASA Ames Research Center, the Pacific Northwest Regional Commission, and State and local agencies from the region. The EDITOR system, developed by the center for Advanced Computation, University of Illinois, was used to conduct the analysis. Extension of the spectral signatures to the adjacent scenes was an experiment in signature extension.

Documentation
Gaydos, Leonard, and Newland, W. L., 1978, Inventory of land use and land cover of the Puget South Region using LANDSAT digital data: U.S. Geological Survey, Journal of Research, V.6, No. 6. Gaydos, L. J., 1978, Low-cost computer classification of land cover in the Portland area, Oregon, by signature-extension techniques: U.S. Geological Survey, Journal of Research, V. 6, No. 6

Date of This Information October 1979

Name LIA BIBLIOGRAPHIC DATA BASE

Acronym LIA BIB

Data Base Type Bibliographic

Division/Office
Office of Land Information and Analysis

Contact Person John E. Jones

Contact Telephone
(703) 860-6857 (FTS) 928-6857

Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
MS 704
Reston, VA 22092

Subject Coverage
Bibliographic information

Keywords
Earthquakes; Energy Resources; Environmental Impact Statements; Geographic Information; Geologic Hazards; Land Use; LANDSAT; Outer Continental Shelf; Remote Sensing; Urban Geology

Geographical Coverage
Worldwide: Retrievable by Geo-Key--Data by country, State, municipality, and regional descriptors

Sources of Data in Data Base
Data from the five programs of the Office of Land Information Analysis: Earth Resources Observation Systems (EROS); Earth Sciences Applications (ESA); Environmental Impact Analysis (EIA); Geography; Resource and Land Investigations (RALI)

Time Span of Data Collected
1969 to the present

Status of Data Base Operational

Users
Office of Land Information and Analysis

Data Availability
Available for limited access

Output Media Batch computer printout

Storage Media Disc

Size of Data Base
1,200 records; 300 characters per record

Computer Residence
IBM 370/155 Reston, VA

Language GIPSY

Abstract

The LIA Bibliographgic Data Base is a computer-retrievable system with boolean search capability on all of its 14 fields. The output may be formatted in USGS bibliographic style.

Documentation None

Date of This Information October 1979

99

Name MAIN IMAGE FILE

Acronym MIF

Data Base Type Spatial

System That Accesses Data Base

INORAC (INQUIRY, ORDER AND ACCOUNTING SYSTEM)

Division/Office

Office of Land Information and Analysis

Contact Person Ralph J. Thompson

Contact Telephone

(605) 594-6511 Ext 555
(FTS) 784-7555

Contact Address

U.S. Geological Survey
Office of Land Information and Analysis
EROS Data Center
Mundt Federal Building
Sioux Falls, SD 57198

Subject Coverage

Aerial photography of the United States except NASA coverage, which includes satellite coverage (both manned and unmanned craft and in both film and digital form)

Keywords

Aerial Photography; Imagery; Remotely Sensed Data

Geographical Coverage

Worldwide for LANDSAT imagery; United States only for mapping photography

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base

Bureau of Indian Affairs; Bureau of Land Management; Bureau of Reclamation; Department of Air Force; Department of Army; Department of Navy; National Aeronautics and Space Administration; National Space Technology Laboratory; U.S. Army Corps of Engineers

Time Span of Data Collected

LANDSAT data: 1971 to the present; Mapping photography: 1942 to the present

Status of Data Base Operational

Users

Department of Agriculture; National Aeronautics and Space Administration; National Oceanic and Atmospheric Administration; National Cartographic Information Center-currently four locations and their related State government affiliates (currently four locations): Canada Center for Remote Sensing; Defense Mapping Agency; Environmental Protection Agency; U.S. Army Corps of Engineers; U.S. Fish and Wildlife Service; World Bank); U.S. Geological Survey

Data Availability

Available for unlimited access

Output Media

Interactive access; Magnetic tape; Batch computer printout; Publication; Microform

Storage Media Disc

Size of Data Base

1,500,000 records; 83 characters per record

Computer Residence

BUR Sioux Falls, SD

Languages PL/1; DMSII

Abstract

The data-base name MAIN IMAGE FILE is actually somewhat of a misnomer. Instead of one file, there is a group of data structures that are logically related. These data structures are the ACCESSION, SLL, and SOURCE data sets. An accession is defined as an unique view of the Earth. The ACCESSION data set contains information that describes each accession (information such as quality, cloud cover, and geographic location). This data set is used mainly for research and inquiry purposes. The SLL (Source

Locator List) is a disjoint data set which serves as a relational structure to logically link accessions with their sources. A source is defined as the physical medium on which an accession exists. The SOURCE data set contains information pertaining to the various physical media on which imagery is maintained (e.g. film, high-density tape, or CCT).

Documentation
Unpublished, A Reference Guide to the Elements of the INORAC Data Base

Date of This Information October 1979

100

Name
OILSPILL TRAJECTORY ANALYSIS MODEL FILES

Acronym OSTA

Data Base Type Spatial

System That Accesses Data Base
OSTA

Division/Office
Office of Land Information and Analysis

Contact Person Kenneth J. Lanfear

Contact Telephone
(703) 860-6730 (FTS) 928-6730

Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
Oilspill Trajectory Analysis Group
MS 760
Reston, VA 22092

Subject Coverage
Currents; Environmental resources; Winds

Keywords
Mathematical Models; Oil Spills; Outer Continental Shelf; Prediction; Risk; Stochastic

Geographical Coverage
North-, mid-, and south-Atlantic OCS; Eastern Gulf of Mexico; Western Gulf of Alaska; California OCS

Spatial Data Type Grid

Coordinate System
Latitude/Longitude; Arbitrary X,Y coordinates

Sources of Data in Data Base
Bureau of Land Management; National Oceanic and Atmospheric Administration; National Weather Service

Time Span of Data Collected
1976 to the present

Status of Data Base Operational

Users
U.S. Geological Survey; Bureau of Land Management; Department of the Interior

Data Availability
Available for Limited Access

Output Media
Magnetic tape; Publication

Storage Media Magnetic tape; Disc

Size of Data Base 140,000,000 bytes

Computer Residence
IBM 370/155 Reston, VA

Language FORTRAN IV

Abstract
The U.S. Geological Survey's oil-spill-trajectory analysis model analyzes the probability of oil-spills from outer continental shelf oil production occurring and contacting vulnerable environmental resources. The data base for this model covers most of the United States outer continental shelf, at a grid resolution of 1.5 to 3 km. Files include spatial locations of environmental resources vulnerable to spilled oil, ocean current fields, and wind-transition probability matrices.

Documentation
None. Development of full documentation of the model and its files is in progress.

Comments
Most data files are structured to facilitate high-speed retrieval by the model.

Date of This Information October 1979

101

Name
OUTER CONTINENTAL SHELF BIBLIOGRAPHY

Acronym RBIB

Data Base Type Bibliographic

Division/Office
Office of Land Information and Analysis
Contact Person Olaf Kays
Contact Telephone
(703) 860-6717 (FTS) 928-6717
Contact Address
U.S. Geological Survey
Office of Land Information and Analysis
RALI Program
MS 750
Reston, VA 22092
Subject Coverage
Socioeconomic impacts of offshore oil and gas development
Keywords
Oil and Gas; Outer Continental Shelf; Socioeconomic Impacts
Geographical Coverage
Outer Continental Shelf; United States; North Sea
Sources of Data in Data Base
Selected publications
Time Span of Data Collected 1977
Status of Data Base Operational
Users
Office of Land Information and Analysis, RALI Program
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Publication
Storage Media Magnetic tape; Disc
Size of Data Base 110 records
Computer Residence
IBM 370/155 Reston, VA
Language GIPSY
Abstract
The data base contains a brief bibliography on socioeconomic impacts of Outer Continental Shelf oil and gas development. It includes sections on introductory literature, general studies, facility-related studies, regional studies, North Sea experience, and analytical methodologies. The GIPSY program was used for compiling this bibliography, which has been published as USGS Circular 761.
Documentation
Pattison, Malka L., 1977, Socioeconomic Impacts of Outer Continental Shelf Oil and Gas Development--A Bibliography: U.S. Geological Survey Circular 761
Date of This Information October 1979

TOPOGRAPHIC DIVISION

102

Name
AERIAL PHOTOGRAPHY INFORMATION SYSTEM
Acronym APIS
Data Base Type Mission support
Division/Office Topographic Division
Contact Person Judith E. Boyd
Contact Telephone
(703) 860-6216 (FTS) 928-6216
Contact Address
U.S. Geological Survey
Topographic Division
Office of Plans and Program Development
MS 511
Reston, VA 22092
Subject Coverage
Data descriptive of the aerial photography procured for the Topographic Division Mapping Center's quadrangle mapping of authorized areas and production of county, State, and special maps
Keywords
Aerial Photography; Cameras; Contracts; Map Photo Data
Geographical Coverage
United States; U.S. Territories; Antarctica; Canada
Sources of Data in Data Base
Office of Research and Technical Standards (RT-A); Topographic Division; Topographic Division Mapping Centers
Time Span of Data Collected
1970 to the present
Status of Data Base Operational
Users Topographic Division
Data Availability
Available for limited access

Output Media Batch computer printout
Storage Media Magnetic tape
Size of Data Base
10,000 records; 80 characters per record. 4,350 records; 403 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV; PL/1; IRS
Abstract
APIS stores the photography data--27 different data elements, including dates of award, acceptance, delivery of photography, camera, lens specifications (lens name and number), square miles and linear miles for each flight, height, contour interval, proposed use of photo, cost per linear mile, and total cost.
Documentation None
Comments
The data base is organized to relate mapping project and area covered to photo-project symbol and coverage in square miles and in linear miles.
Date of This Information October 1979

103

Name
AERIAL PHOTOGRAPHY SUMMARY RECORD SYSTEM FILE
Acronym APSRS FILE
Data Base Type Spatial
System That Accesses Data Base
AERIAL PHOTOGRAPHY SUMMARY RECORD SYSTEM
Division/Office Topographic Division
Contact Person Thomas J. Lauterborn
Contact Telephone
(703) 860-6509 (FTS) 928-6509
Contact Address
U.S. Geological Survey
Topographic Division
National Cartographic Information Center
MS 507
Reston, VA 22092
Subject Coverage
Aerial photographs taken from aircraft, generally in a scale range of 1:10,000 to 1:150,000
Keywords
Aerial Photographs; Agency Code; Date of Coverage; Geographic Coverage; Index Maps; Microfiche Listings; Project Code; Type of Film
Geographical Coverage
United States; Puerto Rico; Virgin Islands
Spatial Data Type Polygon
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Federal, State, municipal, local governments, and private contractors who contribute information on aerial-photography holdings
Time Span of Data Collected
Middle 1930's to the present
Status of Data Base Operational
Users
Bureau of Land Management; Department of Agriculture; National Ocean Survey; 19 private companies; 12 State agencies; U.S. Geological Survey
Data Availability
Available for unlimited access
Output Media Microform
Storage Media Magnetic tape
Size of Data Base
203,000 records; 26,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
The APSRS File contains contributor-supplied information on domestic aerial photographs. Data elements include agency code, geographic coverage, exposure date, film format, image class, focal length, and project code. The file is used to produce index maps and listings via specialized retrieval and standard COM microfiche.
Documentation
APSRS Input Processing Guide; APSRS User Services Guide; APSRS Contributors Guide
Date of This Information October 1979

104

Name CAMERA CALIBRATION DATA BANK
Acronym CCDB
Data Base Type
Scientific and Technical
Division/Office Topographic Division
Contact Person Michael K. Linck, Jr.
Contact Telephone
(703) 860-6271 (FTS) 928-6271
Contact Address
U.S. Geological Survey
Topographic Division
Office of Research and Technical Standards
Branch of Photogrammetry
MS 510
Reston, VA 22092
Subject Coverage
Calibration data for aerial cameras, lenses, platens, and magazines; Directory codes of the data bank entries
Keywords
Aerial Cameras; Analytical Photogrammetry; Camera Calibration; Manufacturers; Owners
Sources of Data in Data Base
Calibration by USGS calibration-laboratory facilities of aerial cameras, which belong to contractors for USGS aerial photography.
Time Span of Data Collected
1967 to the present
Status of Data Base Operational
Users
Mapping Centers and staff offices of the Topographic Division
Data Availability
Available for limited access; Proprietary
Output Media
Batch computer printout; Punched cards
Storage Media
Magnetic tape; Punched cards; Disc
Size of Data Base 180,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV
Abstract
The Camera Calibration Data Bank contains calibration data on 441 entries of aerial camera-lens-magazine combinations. Included are six directories containing lists of 272 owners, 11 manufacturers, 33 camera types, 35 lens types, 3 calibration agencies, and 4 nominal focal lengths. The calibration data contained in each entry includes focal length, fiducial-mark coordinates, indicated principal point coordinates, point of autocollimation coordinates, a table of radial lens-distortion corrections at 1 mm intervals, a table of radial and tangential lens resolution, and a table of model flatness. Data bank entries may be retrieved by using up to 11 key codes with a batch computer run from any USGS terminal. All entries that satisfy all the specified keys will be retrieved. The 11 keys are owner code, manufacturer code, camera-type code, camera number, lens-type code, nominal-focal-length code, lens number, magazine number, calibration-agency code, and month and year of calibration. The retrieved data may be printed and (or) punched. The six directories and an information list of the data bank entries may be printed.
Documentation
Eller, Robert C., Camera Calibration Data Bank, Oct. 1973.
Comments
Calibration data and test results are considered to be private information since they pertain to the property of a camera owner. Other information such as serial numbers, types, codes, names, and dates are considered to be public information.
Date of This Information October 1979

105

Name
CONGRESSIONAL DISTRICT QUADRANGLE FILE
Acronym CONGR
Data Base Type Mission support

System That Accesses Data Base
DISTRIBUTION OF EXPENDITURES BY CONGRESSIONAL DISTRICTS
Division/Office Topographic Division
Contact Person Richard B. Wong
Contact Telephone
(703) 860-6751 (FTS) 928-6751
Contact Address
U.S. Geological Survey
Topographic Division
Office of Plans and Program Development
MS 513
Reston, VA 22092
Subject Coverage
Represents parts of a 7-1/2' quadrangle within which a given county and Congressional District are located.
Keywords
Congressional District; Distribution of Expenditures; RBS; Resources Balancing System; Topographic Mapping; TRACE
Geographical Coverage
Forty-eight conterminous States of the United States
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Created and maintained by Office of Plans and Program Development of the Topographic Division
Time Span of Data Collected
Two years--generally covering a particular Congress
Status of Data Base Operational
Users
U.S. Geological Survey, Topographic Division
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media Magnetic tape
Size of Data Base
80,000 records; 92 bytes per record
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV; EASYTRIEVE
Abstract
The Congressional District Quadrangle File is a file containing records describing parts of 7-1/2' cells in the 48 conterminous States. Each record represents that part of the quadrangle that covers a particular State, county, and Congressional district subdivision. The proportional part of the 7-1/2' cell is denoted with a percentage value. Data pertaining to geographic location (southeast coordinates) of the cell and State, county, Congressional district, and percentage are recorded.
Documentation
Exists only in the form of memoranda
Comments
This file is used primarily to compute expenditures by Congressional district.
Date of This Information October 1979

106

Name
DIGITAL CARTOGRAPHIC DATA BASE/ DEFENSE MAPPING AGENCY--DIGITAL ELEVATION MODELS
Acronym DCDI/DMA-DEM
Data Base Type Spatial
System That Accesses Data Base
DIGITAL CARTOGRAPHIC DATA BASE (DCDB)
Division/Office Topographic Division
Contact Person Harry R. Jacknow
Contact Telephone
(703) 860-6294 (FTS) 928-6294
Contact Address
U.S. Geological Survey
Topographic Division
MS 519
Reston, VA 22092
Subject Coverage
Digital cartographic data; Digital elevation models
Keywords
Automated Cartography; Data Retrieval System; Defense Mapping Agency; Digital Cartography; Digital Elevation Models; DMA; Entry Update System; SYSTEM 2000
Geographical Coverage
United States--1:250,000-scale maps
Spatial Data Type Grid
Coordinate System Latitude/Longitude

Sources of Data in Data Base
Defense Mapping Agency
1:250,000-scale U.S. maps
Time Span of Data Collected
1965 to the present
Status of Data Base Operational
Users
Topographic Division, NCIC; Other Federal and State agencies; General public
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
5,000,000,000,000 characters
Computer Residence
IBM 370/155 Reston, VA
Languages
PL/I; FORTRAN IV; SYSTEM 2000
Abstract
The data base is composed of Digital Elevation Models (DEM). Each model consists of a sampled array or elevations for a number of ground positions that are usually, but not always, at regularly spaced intervals. The digital data is acquired from 1:250,000-scale digitized contour lines and interpolated to DEM data. The spacing of the data is at 300-foot intervals.
Documentation
DMA standard for Digital Terrain Elevation Data File
Comments
The data base is being updated. Contact NCIC for purchase of tapes.
Date of This Information October 1979

107

Name
DIGITAL CARTOGRAPHIC DATA BASE/ GESTALT PHOTO MAPPER II--DIGITAL ELEVATION MODELS
Acronym DCDI-GPM
Data Base Type Spatial
Division/Office Topographic Division
Contact Person Harry R. Jacknow
Contact Telephone
(703) 860-6294 (FTS) 928-6294
Contact Address
U.S. Geological Survey
Topographic Division
MS 519
Reston, VA 22092
Subject Coverage
Digital cartographic data; Digital elevation models
Keywords
Automated Cartography; Data Retrieval System; Digital Cartography; Digital Elevation Models; Entry Update System; Gestalt Photo Mapper; SYSTEM 2000
Geographical Coverage
United States--scattered 7-1/2' quadrangles
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings; State plane coordinates
Sources of Data in Data Base
USGS aerial photography
Time Span of Data Collected
1977 to the present
Status of Data Base Operational
Users
Topographic Division, Digital Applications Team
Data Availability Not available
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
Seventy-five full tapes with 100 files, each recorded at 6,250 BPI
Computer Residence
IBM 370/155 Reston, VA
Languages
PL/1; FORTRAN IV; SYSTEM 2000
Abstract
The data base is composed of Digital Elevation Models (DEM). Each model consists of a sampled array of elevations for a number of ground positions that are usually, but not always, at regularly spaced intervals. The digital data is acquired from scanned USGS aerial photography with the GPM II instrument. The spacing of the data is at 50-foot intervals.

Documentation
Computer Files for Digital Elevation Models (January 1979); Topographic Division Digital Application Team (unpublished)
Comments Data Base is being updated
Date of This Information October 1979

108

Name
DIGITAL CARTOGRAPHIC DATA BASE/ NATIONAL CARTOGRAPHIC INFORMATION CENTER--DIGITAL ELEVATION MODELS
Acronym DCDB/NCIC-DEM
Data Base Type Spatial
System That Accesses Data Base
DIGITAL CARTOGRAPHIC DATA BASE (DCDB)
Division/Office Topographic Division
Contact Person Harry R. Jacknow
Contact Telephone
(703) 860-6294 (FTS) 928-6294
Contact Address
U.S. Geological Survey
Topographic Division
MS 519
Reston, VA 22092
Subject Coverage
Digital cartographic data; Digital elevation models
Keywords
Automated Cartography; Data Retrieval System; Digital Cartography; Digital Elevation Models; Entry Update System; National Cartographic Information Center; NCIC; SYSTEM 2000
Geographical Coverage
United States--scattered 7-1/2' quadrangles
Spatial Data Type Grid
Coordinate System
UTM Northings and Eastings; State plane coordinates
Sources of Data in Data Base
USGS aerial photography
Time Span of Data Collected
1977 to the present
Status of Data Base Under development
Users
Topographic Division, Digital Applications Team
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base 2.5^{10} bytes
Computer Residence
IBM 370/155 Reston, VA
Languages
PL/I; FORTRAN IV; SYSTEM 2000 DBMS
Abstract
The data base is composed of Digital Elevation Models (DEM). Each model consists of a sampled array of elevations for a number of ground positions that are usually, but not always, at regularly spaced intervals. The digital data is acquired from scanned USGS aerial photography with the GPM II instrument. The spacing of the data is at 30-meter intervals.
Documentation
Computer Files for Digital Elevation Models (January 1979); Topographic Division Digital Applications Team (unpublished)
Comments
Contact NCIC for purchase of tapes
Date of This Information October 1979

109

Name
GEOGRAPHIC NAMES INFORMATION SYSTEM/DECISIONS BY THE BOARD ON GEOGRAPHIC NAMES
Acronym GNIS/BGN
Data Base Type
Spatial; Scientific and Technical
Division/Office Topographic Division
Contact Person Roger L. Payne
Contact Telephone
(703) 860-6262 (FTS) 928-6262
Contact Address
U.S. Geological Survey
Topographic Division
MS 523
Reston, VA 22092
Subject Coverage
Decisions by the U.S. Board on Geographic Names (BGN) on name choice, spelling, and application

Keywords
BGN Decisions; Gazetteers; Geographic Coordinates; Geographic Names; Names; Official Place Names; Toponyms

Geographical Coverage
United States and possessions

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Published decisions by the U.S. Board on Geographic Names, 1890-1959.

Time Span of Data Collected
1890 to 1959

Status of Data Base Under development

Users
The file is incomplete but is used by some Federal and State agencies, including the U.S. Geological Survey.

Data Availability
Available for limited access

Output Media
Magnetic tape; Batch computer printout

Storage Media Disc

Size of Data Base
27,255 records; 7,060,592 bytes

Computer Residence
IBM 370/155 Reston, VA

Languages PL/1; FORTRAN IV; ASSEMBLER

Abstract
The Geographic Names Information System (GNIS) of the Geological Survey is designed to serve both internal cartographic name-placement systems and external name-, shipping-, and point- location systems. GNIS provides a rapid means to organize and summarize current information about named cultural or physical geographic name entities. GNIS/BGN consists of variable-length records containing decisions on geographic names in the United States by the U.S. Board on Geographic Names (BGN). This Federal body, created in 1890 and established in its present form by Public Law in 1947, is authorized to establish and maintain uniform geographic-name usage throughout the Federal Government. Some topics covered are officially approved names, type of feature, geographic coordinates, State, county, variant names, date of decision, and textual descriptions. The information consists of text, numeric data, and codes. The data is processed by the GIPSY program, which performs all the processing tasks needed to build, operate, and maintain the GNIS file. The sophisticated retrieval program allows the user to make highly selective searches of the file--for words, parts of words, phrases, numeric data, word ranges, numerical ranges, and others--and to interrelate variables by logic statements to any degree of refinement desired. Three print options are available, or the retrieved data can be passed to another program for further processing.

Documentation
Board on Geographic Names, Decisions on Geographic Names in the United States, various publications 1932-1959; Sixth Report of the U.S. Board on Geographic Names, 1932, 834 p.

Comments
Future development plans will include BGN decisions to date (about 40,000 records).

Date of This Information October 1979

110

Name
GEOGRAPHIC NAMES INFORMATION SYSTEM/MAP NAMES

Acronym GNIS/QUAD

Data Base Type
Spatial; Scientific and Technical

Division/Office Topographic Division

Contact Person Roger L. Payne

Contact Telephone
(703) 860-6262 (FTS) 928-6262

Contact Address
U.S. Geological Survey
Topographic Division
MS 523
Reston, VA 22092

Subject Coverage
Accepted and proposed names for quadrangle maps of 1:100,000 and 1:250,000 scales
Keywords
Map Names; Map Scale; Maps; Names; Quadrangle Maps
Geographical Coverage
Conterminous United States
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS quadrangle-names unit records
Time Span of Data Collected
Maintained to the present
Status of Data Base Operational
Users
Bureau of Land Management; Department of Agriculture; U.S. Geological Survey
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media Disc
Size of Data Base
1,804 records; 911,750 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1; FORTRAN IV; ASSEMBLER
Abstract
The Geographic Names Information System (GNIS) of the Geological Survey is designed to serve both internal cartographic name-placement systems and external name-, shipping-, and point- location systems. GNIS provides a rapid means to organize and summarize current information about named cultural or physical geographic name entities. GNIS/QUAD consists of concise variable-length records containing names of quadrangle maps in process of compilation or published by the U.S. Geological Survey or Bureau of Land Management at 1:100,000 and 1:250,000 scales. The U.S. Geological Survey, by agreement, is responsible for coordinating quadrangle map names among Federal mapping agencies. Some topics covered are official map name, proposed map name, geographic coordinate (SE corner), scale, State(s), map size in minutes of degrees, cross-reference between 1:100,000- and 1:250,000-scale maps. The data is processed by the GIPSY program, which performs all the processing tasks needed to build, operate, and maintain the GNIS file. The sophisticated retrieval program allows the user to make highly selective searches of the file--for words, parts of words, phrases, numeric data, word ranges, numerical ranges, and others--and to interrelate variables by logic statements to any degree of refinement desired. Three print options are available, or the retrieved data can be passed to another program for further processing.
Documentation None
Comments
Files are updated monthly to reflect name changes.
Date of This Information *October 1979*

111

Name
GEOGRAPHIC NAMES INFORMATION SYSTEM/STATE GAZETTEERS
Acronym GNIS/GAZ
Data Base Type
Spatial; Scientific and Technical
Division/Office Topographic Division
Contact Person Roger L. Payne
Contact Telephone
(703) 860-6262 (FTS) 928-6262
Contact Address
U.S. Geological Survey
Topographic Division
MS 523
Reston, VA 22092
Keywords
Board on Geographic Names Decisions; Gazetteers; Geographic Coordinates; Geographic Names; Names; Official Gazetteers; Official Geographic Names;

Official Place Names; Place Elevations; Place Names; Toponyms

Geographical Coverage

Alaska; Massachusetts; Rhode Island; Colorado; Indiana; Kansas; Hawaii; Puerto Rico; Virgin Islands. The remaining states are in various stages of development and are released upon their completion. Coverage of the entire United States should be available by 1981.

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base

National Ocean Survey charts, Board on Geographic Names files (includes field reports from various Federal and State agencies); U.S. Forest Service maps; USGS topographic maps

Time Span of Data Collected

1970 to December 1979

Status of Data Base

Operational; Other State files under development

Users

Educational community; Federal and State agencies; General public; Private industry; U.S. Geological Survey

Data Availability

Available for limited access

Output Media

Magnetic tape; Batch computer printout; Publication; Microform; Punched cards

Storage Media Disc

Size of Data Base

111,842 records; 24,107,272 bytes

Computer Residence

IBM 370/155 Reston, VA

Languages PL/1; FORTRAN IV; ASSEMBLER

Abstract

The Geographic Names Information System (GNIS) of the Geological Survey is designed to serve both internal cartographic name-placement systems and external name-, shipping-, and point- location systems. GNIS provides a rapid means to organize and summarize current information about named cultural or physical geographic entities. GNIS/GAZ consists of variable-length records containing the basic information needed to officially identify and locate a named geographic place or feature in any given State. The information consists of text, numeric data, and codes. Some topics covered are name, type of feature, State and county locations, geographic coordinates, elevation, topographic maps, and other references. The data are processed by the GIPSY program, which performs all the processing tasks needed to build, operate, and maintain the GNIS file. The sophisticated retrieval program allows the user to make highly selective searches of the file--for words, parts of words, phrases, numeric data, word ranges, numerical ranges, and others--and to interrelate variables by logic statements to any degree of refinement desired. Three print options are available, or the retrieved data can be passed to another program for further processing.

Documentation

(1) Orth, Donald J., 1970, Computer and Place Names: A New Challenge, unpublished report, 15 p.; (2) Orth, Donald J., 1977, A program by the United States of America for the Automatic Management of Information on Geographical America for the Automated Management of Information on Geographical Names, no published documentation, UN Economic and Social Council, 15 p; (3) Geographic Names, 1976, Digital Geographic Data Handling Activities in the U.S. Geological Survey, International Geographical Union, First Interim Report, p. 315-319.

Comments

Files are updated quarterly to reflect actions of the Board on Geographic Names and revised map use.

Date of This Information October 1979

112

Name
GEOGRAPHIC NAMES INFORMATION SYSTEM/U.S. NATIONAL ATLAS INDEX
Acronym GNIS/USATLAS
Data Base Type
Spatial; Scientific and Technical
Division/Office Topographic Division
Contact Person Roger L. Payne
Contact Telephone
(703) 860-6262 (FTS) 928-6262
Contact Address
U.S. Geological Survey
Topographic Division
MS 523
Reston, VA 22092
Subject Coverage
Geoname; Geocoordinate; National Atlas of the U.S.A. map reference and key
Keywords
Geographic Coordinates; Geographic Names; Place Names; U.S. ATLAS
Geographical Coverage Worldwide
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Index to the National Atlas of the U.S.A.
Time Span of Data Collected 1970
Status of Data Base Under development
Users Not yet used
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Punched cards
Storage Media Disc
Size of Data Base
40,565 records; 4,814,040 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1; FORTRAN IV; ASSEMBLER
Abstract
The Geographic Names Information System (GNIS) of the Geological Survey is designed to serve both internal cartographic name-placement systems and external name-, shipping-, and point- location systems. GNIS provides a rapid means to organize and summarize current information about named cultural or physical geographic entities. GNIS/ATLAS consists of variable-length records containing data recorded in the Index to the National Atlas of the United States. The information refers to well-known named places, physical features, and administrative areas, such as National parks, National and State forests, National wildlife areas, and Indian reservations. The information consists of text, numeric data, and codes. Some topics covered are name, feature class, geographic coordinate, population (1970), State, county, and key reference to a map in the National Atlas. The data is processed by the GIPSY program, which performs all the processing tasks needed to build, operate, and maintain the GNIS file. The sophisticated retrieval program allows the user to make highly selective searches of the file--for words, parts of words, phrases, numeric data, word ranges, numerical ranges, and others--and to interrelate variables by logic statements to any degree of refinement desired. Three print options are available, or the retrieved data can be passed to another program for further processing.
Documentation
The National Atlas of the U.S.A., 1979: U.S. Geological Survey, 417 p.
Comments
The data has not been verified as of February 1979.
Date of This Information October 1979

113

Name INVENTORY OF PUBLISHED MAPS
Acronym T-70
Data Base Type Mission support
Division/Office Topographic Division
Contact Person
Edward E. Hill
Contact Telephone
(703) 860-6216 (FTS) 928-6216

Contact Address
U.S. Geological Survey
Topographic Division
Office of Plans and Program Development
MS 511
Reston, VA 22092

Keywords
Published Maps; Standard Quadrangle Mapping; Topographic Map Series

Geographical Coverage
United States; U.S. Territories; Antarctica; Canada

Sources of Data in Data Base
Topographic Division; Mapping Centers; Published maps from Publications Division

Time Span of Data Collected
1884 to 1978

Status of Data Base Operational

Users
Defense Mapping Agency; U.S. Geological Survey, Topographic Division

Data Availability
Available for unlimited access

Output Media
Magnetic tape; Publication; Microform

Storage Media Magnetic tape

Size of Data Base
95,168 records; 220 characters per record

Computer Residence
IBM 370/155 Reston, VA

Languages PL/1

Abstract
Most of the maps in the INVENTORY OF PUBLISHED MAPS are standard topographic maps published as 7-1/2' and 15' quadrangles. The map location is given by the latitude and longitude of the southeast (lower right) corner of the quadrangle. Series, location, scale, contour interval, survey, publication, and revision dates are specified. Other maps include photorevised maps (not field checked), series converted maps, orthophotomaps, county and State maps, and IMW. Topographic-map inventory data elements include map series, latitude and longitude, edition, survey, publication, and revision dates; type of mapping, contour intervals, published name, major and minor States covered, and square miles of coverage.

Documentation
"New Publications of the Geological Survey"--United States Department of the Interior

Comments
Standard quadrangle topographic maps are on sale at U.S. Geological Survey National Headquarters, Reston, VA, at approximately $1.25 a copy. State topographic indexes are free on request.

Date of This Information October 1979

114

Name
MAP AND CHART INFORMATION SYSTEM FILE

Acronym MCIS FILE

Data Base Type Spatial

System That Accesses Data Base
NCIC MAP AND CHART INFORMATION SYSTEM

Division/Office Topographic Division

Contact Person John P. Wilson

Contact Telephone
(703) 860-6011 (FTS) 928-6011

Contact Address
U.S. Geological Survey
Topographic Division
National Cartographic Information Center
MS 507
Reston, VA 22092

Subject Coverage Maps and charts

Keywords
Bathymetry; Charts; Coordinates; Counties; Elevations; Maps; States

Geographical Coverage
United States and Territorial Possessions

Spatial Data Type Polygon

Coordinate System
Latitude/Longitude; UTM Northings and Eastings; State plane coordinates

Sources of Data in Data Base
Federal, State, and local governments; Private mapmakers; University map libraries
Time Span of Data Collected
1884 to 1979
Status of Data Base Operational
Users
U.S. Geological Survey; Other Federal, State, and public customers of NCIC via microfiche products
Data Availability
Available for limited access
Output Media
Batch computer printout; Microform
Storage Media Magnetic tape
Size of Data Base
150,000 records; 45,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1; FORTRAN IV; DISSPLA
Abstract
The Map and Chart Information System File contains descriptor records of USGS topographic maps, National Ocean Survey nautical charts, domestic Defense Mapping Agency, and U.S. Army Corps of Engineers maps. Data elements include coordinates, scale, name, publication and survey dates, map name, microfilm storage location, State coverage, horizontal and vertical datums, price, publisher, type of copy, edition number, inset descriptions, contour intervals, and township and range.
Documentation
MCIS Data Preparation Guide; MCIS Editing and Maintenance Guide; MCIS User Services Guide
Date of This Information October 1979

115

Name
NATIONAL CARTOGRAPHIC INFORMATION SYSTEM TOPOGRAPHIC QUADRANGLE
Acronym NCICTQ
Data Base Type Spatial
Division/Office Topographic Division
Contact Person Doreen M. Prevatte
Contact Telephone
(703) 860-6508 (FTS) 928-6508
Contact Address
U.S. Geological Survey
Topographic Division
National Cartographic Information Center
Office of Plans and Program Development
MS 507
Reston, VA 22092
Subject Coverage
Map material; Quadrangle information
Keywords
Map Center; Topographic Maps; TQ Number
Geographical Coverage United States
Spatial Data Type Polygon
Coordinate System Latitude/Longitude
Sources of Data in Data Base
National Cartographic Information Center
Time Span of Data Collected 1978
Status of Data Base Operational
Users
Mapping Centers; NCIC; Publications Division
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Microform
Storage Media
Magnetic tape; Microform
Size of Data Base
52,245 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
The NCIC TQ was designed jointly by the Systems Analysis and Research Section and National Cartographic Information Center (NCIC). The principal users are Publications Division and NCIC, both in Reston and the Mapping Centers. The computer file replaces a card system maintained by hand in the Publications Division. The NCICTQ has been found particularly helpful in providing information for maps in

the intermediate scale. One program provides microfiche. Updates to the file of 52,245 records are made periodically.

Documentation
TQ Information System, 1979

Date of This Information October 1979

116

Name NCIC CARTOGRAPHIC CATALOG FILE
Acronym CC FILE
Data Base Type Bibliographic
Division/Office Topographic Division
Contact Person John P. Wilson
Contact Telephone
(703) 860-6011 (FTS) 928-6011
Contact Address
U.S. Geological Survey
Topographic Division
National Cartographic Information Center
MS 507
Reston, VA 22092
Subject Coverage
Current and historical maps; Aerial photographs; Geodetic data; Digital cartographic data
Keywords
Charts; Digital Cartographic Data; Geodetic Data; Maps; Photographs; Area Name
Geographical Coverage
United States and Territorial Possessions
Spatial Data Type Point
Coordinate System
Latitude/Longitude; UTM Northings and Eastings; State plane coordinates
Sources of Data in Data Base
Encoded NCIC data from miscellaneous cartographic sources; Library of Congress MARC File; State contributor inputs
Time Span of Data Collected
1722 to 1979
Status of Data Base Operational
Users
U.S. Geological Survey; Other Federal, state, and public customers of NCIC via microfiche products
Data Availability
Available for limited access
Output Media
Interactive access; Batch computer printout; Microform
Storage Media Disc
Size of Data Base
23,000 records; 11,500,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages GIPSY; PL/1
Abstract
The NCIC Cartographic Catalog File contains broad descriptive information about series or collections of cartographic products, including locator information. Detailed information on one-of-a-kind products, such as historical maps at the Library of Congress, is recorded in the file. Summary descriptions of geodetic data, digital cartographic data, and aerial photographs are also recorded.
Documentation
Cartographic Catalog Input Processing Guide; Cartographic catalog User Services Guide; Cartographic Catalog Data Preparation Guide
Date of This Information October 1979

117

Name SMALL-SCALE DIGITAL LINE GRAPHS
Acronym SSDLG
Data Base Type Spatial
Division/Office Topographic Division
Contact Person Warren E. Schmidt
Contact Telephone
(703) 860-6294 (FTS) 928-6294
Contact Address
U.S. Geological Survey
Topographic Division
Digital Applications Team
MS 519
Reston, VA 22092
Subject Coverage
Hydrography; Transportation; Boundaries; Public land surveys; Populated places
Keywords
Automatic Mapping; Mapping; Small-scale Maps

Geographical Coverage
United States nationwide: 1:2,000,000 scale; Idaho, Utah, Arizona, New Mexico, Colorado, California, Hawaii, Kansas, Montana, Nebraska, Nevada, North Dakota, Oregon, South Dakota, Texas, Washington, Wyoming: 1:500,000 scale
Spatial Data Type Line
Coordinate System
Latitude/Longitude; Arbitrary X,Y coordinates
Sources of Data in Data Base
USGS published and updated maps: 1:2,000,000-scale National Atlas sectional maps; 1:500,000-scale State base maps
Time Span of Data Collected
1978 to the present
Status of Data Base Under development
Users
Census; Department of Energy; National Oceanic and Atmospheric Administration; U.S. Geological Survey
Data Availability
Available for limited access
Output Media
Interactive access; Magnetic tape
Storage Media Magnetic tape; Disc
Size of Data Base Unknown
Computer Residence
IBM 370/155; SEL 32/55 Reston, VA
Languages FORTRAN IV; IBM ASSEMBLY
Abstract
The National Atlas Cartographic Data Base, 1:2,000,000-scale, is being digitized for USGS and external use. The State Base Maps are being digitized for geothermal energy maps in cooperation with NOAA and DOE. Other than that for Idaho, all data will be both structured and in a format acceptable to the CAM program.
Documentation None
Date of This Information October 1979

Name T1X
Acronym T1X
Data Base Type Mission support
Division/Office Topographic Division
Contact Person David J. Murray
Contact Telephone
(703) 860-6751 (FTS) 928-6751
Contact Address
U.S. Geological Survey
Topographic Division
MS 513
Reston, VA 22092
Subject Coverage
Special-interest areas and special-interest agencies
Keywords
Special-interest Areas; Topographic Mapping
Geographical Coverage
Conterminous 48 States of the United States
Sources of Data in Data Base
Special-interest area and special-interest agency personnel; Topographic maps and files
Time Span of Data Collected
1977 to 1978
Status of Data Base Operational
Users
U.S. Geological Survey, Topographic Division
Data Availability
Available for unlimited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
100,000 variable-length records
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
One record for every 7-1/2', 15', 1:250,000-scale, and County Series of maps in the conterminous United States Each record contains codes identifying each special-interest area and special-interest agency within the area covered, along with State and county information within each area covered.
Documentation None
Date of This Information October 1979

119

Name WORLD DATA BANK I
Acronym WDB I
Data Base Type Spatial
Division/Office Topographic Division
Contact Person Warren E. Schmidt
Contact Telephone
(703) 860-6294 (FTS) 928-6294
Contact Address
U.S. Geological Survey
Topographic Division
Digital Applications Team
MS 519
Reston, VA 22092
Subject Coverage
Coastlines; National boundaries
Keywords
Automatic Mapping; Mapping; Small-scale Maps
Geographical Coverage Worldwide
Spatial Data Type Line
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Central Intelligence Agency--available from NTIS
Time Span of Data Collected
1966 to 1967
Status of Data Base Operational
Users
American Telephone and Telegraph Long Lines; Central Intelligence Agency; Defense Intelligence Agency; Defense Mapping Agency; Oil companies; States; Statistics Canada; Universities
Data Availability
Available for limited access
Output Media
Interactive access; Magnetic tape
Storage Media Magnetic tape; Disc
Size of Data Base
100,000 records; 80 characters per record
Computer Residence
IBM 370/155; HIS MULTICS; SEL 32/55 Reston, VA
Languages
FORTRAN IV; IBM ASSEMBLY; CAM; DISSPLA
Abstract
World Data Bank I was developed by the CIA to display world coastlines and international boundaries. A companion program, Cartographic Automatic Mapping (CAM) accesses this data base and generates plots with variable projections, frames, and other map-design features.
Documentation None
Comments
Source - 1:12,300,000 world map and 1:9,000,000 Antarctica; Digitized 1966; Updated
Date of This Information October 1979

120

Name WORLD DATA BANK II
Acronym WDB II
Data Base Type Spatial
Division/Office Topographic Division
Contact Person Warren E. Schmidt
Contact Telephone
(703) 860-6294 (FTS) 928-6294
Contact Address
U.S. Geological Survey
Topographic Division
Digital Applications Team
MS 519
Reston, VA 22092
Subject Coverage
Coastlines; Primary drainage; National boundaries; Some provincial boundaries; Some transportation
Keywords
Automatic Mapping; Mapping; Small-scale Maps
Geographical Coverage Worldwide
Spatial Data Type Line
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Central Intelligence Agency--available from NTIS
Time Span of Data Collected
1973 to 1977
Status of Data Base Operational
Users
American Telephone and Telegraph Long Lines; Central Intelligence Agency; Defense Intelligence Agency; Defense Mapping Agency; Oil companies; States; Statistics Canada; Universities
Data Availability
Available for limited access

Output Media
Interactive access; Magnetic tape
Storage Media Magnetic tape; Disc
Size of Data Base
Six million records with 20-character header record and 20-character coordinate record
Computer Residence
IBM 370/155; HIS MULTICS; SEL 32/55 Reston, VA
Languages
FORTRAN IV; IBM ASSEMBLY; CAM; DISSPLA
Abstract
World Data Bank II was developed by the CIA to display world coastlines and international boundaries. A companion program, Cartographic Automatic Mapping (CAM), accesses this data base and generates plots with variable projections, frames, and other map design features. Source scales--New compilations at 1:3,000,000 average scale with some small nations at 1:1,000,000 and Siberia at 1:4,000,000; Updated
Documentation None
Date of This Information October 1979

WATER RESOURCES DIVISION

121

Name ADP INVENTORY
Acronym ADPINV
Data Base Type Bibliographic
Division/Office
Water Resources Division
Contact Person Terry A. Wilson
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Computer programs, files, and procedure information
Keywords
Computer Programs; Hydrology
Geographical Coverage United States
Sources of Data in Data Base
WRD Offices provide information on their programs, files and procedures.
Time Span of Data Collected
1978 to the present
Status of Data Base Under Development
Users Water Resources Division
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout
Storage Media Disc
Size of Data Base
1,000 records; 4,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Language PL/1; SYSTEM 2000
Abstract
This data base is designed to contain all pertinent information about computer programs, files, subroutines, and cataloged procedures developed by WRD personnel and (or) maintained by WRD personnel. The Data Base is a SYSTEM 2000 Data Base Management System maintained on-line to be used by all WRD offices when requiring information concerning availability of software.
Documentation None
Date of This Information October 1979

122

Name AGENCY CODE FILE
Acronym AGCODE
Data Base Type
Scientific and Technical
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person David V. Maddy
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage
Agency codes for agencies having access to WATSTORE
Keywords
Administrative; Inventory; Security
Geographical Coverage United States
Sources of Data in Data Base
National Water Data Exchange (NAWDEX). NAWDEX assigns a code to all agencies that become a NAWDEX member.
Time Span of Data Collected
1976 to the present
Status of Data Base Operational
Users
USGS and registered WATSTORE users
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base
376 Records; 680,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Language PL/1; ASSEMBLY
Abstract
This file is a cross-reference between agencies, their assigned codes, and their accounting codes and is referred to when non-USGS agencies attempt to access data in WATSTORE's Station Header File, Daily Values File, and Peak Flow File. The file is an on-line ISAM file.
Documentation None
Date of This Information October 1979

123

Name ANNUAL OBSERVATION WELL FILE
Acronym AOWF
Data Base Type Spatial
System That Accesses Data Base
OMNIANA
Division/Office
Water Resources Division
Contact Person James Hudson
Contact Telephone
(505) 766-2011 (FTS) 474-2011
Contact Address
U.S. Geological Survey
Water Resources Division
Box 26659
Albuquerque, NM 87125
Subject Coverage
Ground-water observation-well water-level measurements
Keywords
Aquifer; Ground Water; Hydrologic Data; Water Levels
Geographical Coverage
State of New Mexico
Spatial Data Type Point
Coordinate System
Latitude/Longitude; State plane coordinates
Sources of Data in Data Base
Field survey; State Engineer's Office
Time Span of Data Collected
1940 to 1979
Status of Data Base Operational
Users
State Engineer's Office; U.S. Geological Survey
Data Availability
Available for limited access
Output Media
Batch computer printout; Microform; Magnetic tape; Publication
Storage Media Magnetic tape; Disc
Size of Data Base 225,000 records
Computer Residence
CDC 6600 and CYBER 176 Kirtland AFB Albuquerque, NM; Harris S125 Albuquerque, NM
Languages OMNIANA
Abstract
Historical file of ground-water-level measurements and producing formations for all declared ground-water basins in New Mexico.
Documentation
U.S. Geological Survey, 1978, Water resources data for New Mexico, water year 1977: Report NM-77-1, 627 p.
Date of This Information October 1979

124

Name AUTOMATIC DIGITAL RECORDER TAPES
Acronym ADR
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Charles R. Showen
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Surface-water, ground-water, water-quality, and rainfall data
Keywords
Basic Data; Ground Water; Hydrologic Data; Surface Water; Water Quality
Geographical Coverage
United States and territories
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
WRD field offices; water resources data is punched on 16-channel paper tapes at field sites to support field investigations
Time Span of Data Collected
1960 to the present
Status of Data Base Operational
Users
Consulting engineers Federal and State agencies; U.S. Geological Survey
Data Availability
Available for limited access
Output Media Magnetic tape
Storage Media Paper tape
Size of Data Base
13 billion characters
Computer Residence
MITRON Translator Reston, VA IBM 370/155 Reston, VA
Languages PL/1
Abstract
Water data such as river stages, temperature, ground-water levels, specific conductivity, and dissolved oxygen is punched on paper tape in the field in raw form. Other WATSTORE programs process these tapes and mean, maximum, or minimum values are stored in the WATSTORE Daily Values File. The tapes are sometimes reanalysed to describe the hydrograph of specific flood events or a low flow event. These tapes are stored at WRD district offices or may be retrieved by them from a GSA records center.
Documentation
Hutchison, N. E., compiler, 1975, WATSTORE--National Water Data Storage and Retrieval System of the U.S. Geological Survey, User's Guide Vol. 1: U.S. Geological Survey Open-File Report 75-426, 532 p. Hutchison, N. E., and others, 1977, National Water Data Storage and Retrieval System--Instructions for processing digital recorder data: U.S. Geological Survey Open-File Report 77-729-I, 230 p.
Comments
These tapes must be translated onto a seven-track magnetic tape using special equipment in order to be computer-readable.
Date of This Information October 1979

125

Name
BASIC WELL DATA FOR PROFESSIONAL PAPER 796
Acronym P.P. 796
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Donald J. Dolnack
Contact Telephone
(703) 860-7131 (FTS) 928-7131
Contact Address
U.S. Geological Survey
Water Resources Division
MS 485
Reston, VA 22092
Subject Coverage
Spatial distribution of permeability

Keywords
Geology; Hydrologic Data; Permeability; Stratigraphy
Geographical Coverage
Atlantic Coastal Plain from North Carolina to New York
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
P.M. Brown and others, North Carolina WRD District
Status of Data Base Operational
Users
U.S. Geological Survey; Oil companies
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media Magnetic tape
Size of Data Base
1,000 records; 473 bytes per record
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract
The basic well data is stored as fixed length records and is used to support P.P. 796.
Documentation
Brown, P. M., Miller, J. A., Swain, F. M., 1972, Structural and stratigraphic framework and spatial distribution of permeability of the Atlantic Coastal Plain, North Carolina to New York: U.S. Geological Survey Professional Paper 796
Date of This Information October 1979

126

Name
BIOLOGICAL ANALYSES OF WATER SAMPLES
Acronym BIOFILE
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Philip N. Edelen
Contact Telephone
(404) 221-4806 (FTS) 242-4806
Contact Address
U.S. Geological Survey
Water Resources Division
National Water Quality Laboratory-Atlanta
6481 Peachtree-Independence Blvd.
Doraville, GA 30340
Subject Coverage
Aquatic biology of water samples
Keywords
Biological Properties; Water Properties; Water Quality
Geographical Coverage
United States and Puerto Rico
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Analyses performed in National Water Quality Laboratory (NWQL)-Atlanta on samples submitted by WRD field offices
Time Span of Data Collected
1974 to the present
Status of Data Base Operatonal
Users
U.S. Geological Survey, Water Resources Division hydrologists
Data Availability
Available for limited access
Output Media
Batch computer printout; Publication
Storage Media Disc
Size of Data Base
20,000 records; 8,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
This file consists of variable-length records containing information about where and when water samples were taken for biological analysis. The results of the anlysis, e.g., organism genera and organism counts, are stored. Data entry is by a NWQL-maintained program.
Documentation None
Date of This Information October 1979

127

Name BIOLOGICAL ORGANISM NAME FILE
Acronym ORGFILE
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Philip N. Edelen
Contact Telephone
(404) 221-4806 (FTS) 242-4806
Contact Address
U.S. Geological Survey
Water Resources Division
National Water Quality Laboratory-Atlanta
6481 Peachtree-Independence Blvd.
Doraville, GA 30340
Subject Coverage
Names of organisms, identified to the genera level, found in the United States and Puerto Rico
Keywords
Biological Properties; Water Properties
Geographical Coverage
United States and Puerto Rico
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Analysts in NWQL-Atlanta in support of the Biological Analyses File
Time Span of Data Collected
1974 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Water Resources Division hydrologists
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base
3,500 records; 1,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
This file consists of fixed length records that associate numbers with the taxinomic names of aquatic organisms. This file is in support of the WRD Biological Analyses File.
Documentation None
Date of This Information October 1979

128

Name CALIFORNIA GWSI
Acronym CAGWSI
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Hugh Mitten
Contact Telephone
(916) 484-4415 (FTS) 468-4415
Contact Address
U.S. Geological Survey
Water Resources Division
2800 Cottage Way
Sacramento, CA 95825
Subject Coverage
Basic well-log information
Keywords
Ground Water; Hydrologic Data; Wells
Geographical Coverage
State of California
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
California Department of Water Resources
Time Span of Data Collected
The period of record varies for each site
Status of Data Base Operational
Users
U.S. Geological Survey, Water Resources Division, California District only
Data Availability
Not available. See comments below.
Output Media Batch computer printout
Storage Media Disc
Size of Data Base 500 records
Computer Residence
IBM 370/155 Reston, VA
Languages
SYSTEM 2000
Abstract
This data base is structured exactly like the WRD GWSI Data

Base. Acess is restricted because of California water laws. Please see the corresponding abstract for the Ground-Water Site Inventory (GWSI) Data Base. The California data base was established by Charles Morgan (WRD), with assistance from Claude Baker (WRD). The data base contains selected California well data.

Documentation None

Comments

The data base is private and may not be accessed--either to update or retrieve data--by anyone except selected WRD California District personnel.

Date of This Information October 1979

129

Name CAPITAN REEF FILE

Acronym REEF FILE

Data Base Type Spatial

System That Accesses Data Base

OMNIANA

Division/Office

Water Resources Division

Contact Person John McLean

Contact Telephone

(505) 766-2810 (FTS) 474-2810

Contact Address

U.S. Geological Survey
Water Resources Division
P.O. Box 26659
Albuquerque, NM 87125

Subject Coverage

Fluid production; Interstate compacts; Water quality; Water levels

Keywords

Chemical Analyses; Ground Water; Hydrologic Data; Permian Basin; Water Quality

Geographical Coverage

Capitan Reef, within Eddy and Lea Counties, New Mexico, and Pecos, Brewster, Reeves, Loving, Ward, and Winkler Counties, Texas, within the Permian basin

Spatial Data Type Point

Coordinate System

Latitude/Longitude; State plane coordinates; Arbitrary X, Y coordinates; Bureau of Indian Affairs X, Y quadrangle system

Sources of Data in Data Base

Field survey; Water-quality laboratories; Permian basin well-data system; Geophysical logs; Analytical calculations; Pump tests

Time Span of Data Collected

1960 to 1974

Status of Data Base Operational

Users

State Engineer's Office; U.S. Geological Survey

Data Availability

Available for limited access

Output Media

Batch computer printout; Microform; Magnetic tape

Storage Media

Magnetic tape; Microform

Size of Data Base 900,000 records

Computer Residence

CDC 6600 and CYBER 176 Kirtland AFB Albuquerque, NM

Languages OMNIANA

Abstract

Compilation of ground-water, water-quality, and lithologic data in southeastern New Mexico and western Texas

Documentation

Hiss, W. L., 1975, Water-quality data from oil and gas wells in part of the Permian basin, southeastern New Mexico and western Texas: U.S. Geological Survey Open-File Report 75-579, 658 p.

Date of This Information October 1979

130

Name DAILY VALUE FILE

Acronym DVFILE

Data Base Type Spatial

Division/Office

Water Resources Division

Contact Person Ivonne Colon

Contact Telephone

(809) 783-4660
(FTS) Dial 967-1221 and ask for 753-4414

Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 34168
Ft. Buchanan, PR 00934
Subject Coverage
Daily mean discharges
Keywords
Hydrologic Data; Streamflow; Surface Water
Geographical Coverage
Puerto Rico islandwide
Spatial Data Type Point
Coordinate System
Arbitrary X,Y coordinates
Sources of Data in Data Base
USGS technicians data collection and analysis; prior to 1958 Autoridad de Fuentes Fluviales, San Juan, PR
Time Span of Data Collected
1943 to 1974
Status of Data Base Operational
Users USGS personnel in Puerto Rico
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Publication
Storage Media Disc
Size of Data Base 11,452 bytes
Computer Residence
IBM 370 Hato Rey, PR
Languages PL/1
Abstract
The Daily Value File (DVFILE) stores daily mean discharges for continuous surface water stations to be published on a yearly basis.
Documentation None
Date of This Information October 1979

131

Name DAILY VALUES FILE
Acronym DVFILE
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Neil G. Stuthmann
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Water quantity and quality data
Keywords
Daily Values; Ground Water; Streamflow; Water Data; Water Quality
Geographical Coverage United States
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
State surveys; U.S. Army Corps of Engineers; U.S. Geological Survey, Water Resources Division hydrologists and technicians
Time Span of Data Collected
1889 to the present
Status of Data Base Operational
Users
State surveys; U.S. Army Corps of Engineers
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media Magnetic tape; Disc
Size of Data Base
517,658 records; 1,600 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
The Daily Values File is the point at which the U.S. Geological Survey collects water data. The file contains daily values for streamflow, reservoir levels, water temperature, specific conductance, and sediment discharge, plus several other quality parameters that are either measured by means of monitoring equipment or result from analyses of samples collected on a daily basis.
Documentation
Hutchison, N. E., compiler, 1975, WATSTORE--National Water Data Storage and Retrieval System of

the U.S. Geological Survey--User's Guide: U.S. Geological Survey Open-File Report 75-426, 532 p.

Date of This Information October 1979

132

Name DAILY VALUES TRANSACTION FILE

Acronym WRD.DVTF

Data Base Type Spatial

System That Accesses Data Base
WATSTORE

Division/Office
Water Resources Division

Contact Person Charles F. Merk

Contact Telephone
(703) 860-6871 (FTS) 928-6871

Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage
File contains WRD Daily Values File transactions occurring between backups.

Keywords
Ground Water; Hydrologic Data; Streamflow; Water Quality

Geographical Coverage
States and outlying areas of the United States; Mexico and Canada

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
USGS hydrologists and technicians

Time Span of Data Collected
1978 to the present

Status of Data Base Operational

Users
Registered WATSTORE members; WRD Automatic Data Processing Unit

Data Availability
Available for limited access

Output Media
Magnetic tape; Batch computer printout

Storage Media Disc

Size of Data Base
Varies from 1 to 6,900 records; 1,600 bytes per record

Computer Residence
IBM 370/155 Reston, VA

Languages PL/1

Abstract
The Daily Values Transaction File is an on-line Direct Access File that contains a copy of each Daily Values record that has been updated or newly input to WATSTORE following the most current ISAM disk file backup of the Daily Values File. The Daily Values Transaction File provides a means of recreating the Daily Values ISAM File, in the event it is damaged.

Documentation
Hutchison, N. E., and others, 1977, National Water Data Storage and Retrieval System--WATSTORE Utility and Maintenance Programs: Volume 6

Date of This Information October 1979

133

Name
DATA COLLECTION PLATFORM (DCP) MANAGEMENT INFORMATION FILE

Acronym WRD.DCPMIF

Data Base Type Spatial

System That Accesses Data Base
National Water Data Storage and Retrieval System (WATSTORE)

Division/Office
Water Resources Division

Contact Person Charles F. Merk

Contact Telephone
(703) 860-6871 (FTS) 928-6871

Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage
Hydrologic information relayed via satellite communications

Keywords
Hydrologic Data; Hydrologic Instrumentation; Satellite Communications; Streamflow; Water Quality

Geographical Coverage
United States; Central America; South America

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Real-time data from data collection platforms is entered into the data base automatically from NOAA's National Environmental Satellite Service computer facilities in Suitland, MD.
Time Span of Data Collected
1977 to the present
Status of Data Base Operational
Users
Hydrologists from Federal, State, and local government agencies including: U.S. Army Corps of Engineers, U.S. Geological Survey, National Park Service, and National Weather Service
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Disc
Size of Data Base
400 records; 2,000 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
The Data Collection Platform Management Information File contains information about Data Collection Platforms operating in one of three data collection systems: LANDSAT, GOES, or COMSAT. In addition, the data base is used to monitor the performance of the data-collection platforms and the data-collection systems. The information stored in the data base can be classified into six categories: location information, owner information, data-collection system information, remote-terminal information, platform-configuration information, and platform-activity information.
Documentation
Hutchison, N. E. and others, 1977, National Water Data Storage and Retrieval System, Volume 5, Chapter V, Section A
Date of This Information October 1979

Name DATA SITE INFO FOR 208 STUDY
Acronym DATSIN
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Clyde E. Simmons
Contact Telephone
(919) 755-4510 (FTS) 672-4510
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 2857
Raleigh, NC 27602
Subject Coverage
Water resources and site-location information
Keywords
Basin Characteristics; Hydrologic Data; Minimum Flows; Surface Water
Geographical Coverage
State of North Carolina
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Field surveys; Monitoring; Published reports and maps.
Time Span of Data Collected
1900 to 1978
Status of Data Base Under development
Users
North Carolina State Department of Environmental Management
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base
18,000 records, 250 characters per record
Computer Residence
WANG 2200 Raleigh, NC
Languages
BASIC LEVEL 2 (WANG)
Abstract
Data base contains site information for approximately 18,000 stream sites located in North Carolina. Information includes name, site-location coordinates, drainage area, average discharge, lowest seven-consecutive-day flow in a 10-year time span, and geologic

characteristics. Retrieval program will permit searches by basin size, flow characteristics, location coordinates, stream name, station number, basin name, and by ranges of various numerical values. Program includes mathematical equations for computing the lowest seven-consecutive-day flow in a 10-year time span.

Documentation None

Date of This Information October 1979

135

Name DEFINITIONS DATA BASE

Acronym DEFINITIONS

Data Base Type Bibliographic

System That Accesses Data Base
WATSTORE

Division/Office
Water Resources Division

Contact Person Charles O. Morgan

Contact Telephone
(703) 860-6871 (FTS) 928-6871

Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage
Tables of parameters within the National Groundwater Data Base

Keywords Ground Water

Geographical Coverage
United States and Territories

Sources of Data in Data Base
Automatic Data Section, WRD

Status of Data Base Operational

Users Registered WATSTORE Users

Data Availability
Available for limited access

Output Media
Interactive access; Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base 493,415 characters

Computer Residence
IBM 370/155 Reston, VA

Languages
COBOL; PL/1; SYSTEM 2000 NATURAL LANGUAGE; FORTRAN

Abstract
The Definitions Data Base includes codes, their descriptions, and related error messages formatted for use by the SYSTEM 2000 Data Base Management System and the corresponding GWSI Edit Program. Included are logical ranges of numerical data, such as minimum and maximum altitudes for States. Also included are logical error check messages for use by edit program. (One example would indicate depth of water exceeded depth of hole.)

Documentation
Baker, C. H., Jr. and others, November 1975, National Water Data Storage and Retrieval System: U.S. Geological Survey Open-File Report 75-589

Comments
The Definitions Data Base is reasonably static with few additions.

Date of This Information October 1979

136

Name
DEFINITIONS OF COMPONENTS OF THE MASTER WATER DATA INDEX MAINTAINED BY THE NATIONAL WATER DATA EXCHANGE

Acronym MWDI DATA DICTIONARY

Data Base Type Bibliographic

System That Accesses Data Base
NAWDEX

Division/Office
Water Resources Division

Contact Person Owen O. Williams

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

Contact Address
U.S. Geological Survey
Water Resources Division
NAWDEX Program Office
MS 421
Reston, VA 22092

Subject Coverage
Document defines the data components in the Master Water Data Index (MWDI)

Keywords
Data Collection; Data Processing; Data Storage and Retrieval; Information Exchange
Source of Data in Data Base
NAWDEX Program Office
Time Span of Data Collected
1978 to 1979
Status of Data Base Operational
Users NAWDEX Program Office
Data Availability
Available for unlimited access
Output Media Publication
Storage Media Magnetic card
Size of Data Base
179 cards; 50 characters per card
Computer Residence
IBM Magnetic Card Selectric typewriter
Abstract
The National Water Data Exchange (NAWDEX), an interagency program to facilitate the exchange of water data, maintains a Master Water Data Index, which is a computerized data base of available water data. The index contains information on sites for which water data is available, the location and type of site, the data-collection organization, the types of data available, the major water-data parameters for which data is available, the frequency of measurement, and the media in which the data is stored. The MWDI Data Dictionary documents all elements of the Master Water Data Index in terms of name, component number, definition, data element type, and valid values.
Documentation
Perry, R. A., and Lewis, C. J., 1978, Definitions of components of the master water data index maintained by the national Water Data Exchange: U.S. Geological Survey Open-File Report 78-183, 179 p.
Date of This Information October 1979

137

Name
DEFINITIONS OF COMPONENTS OF THE WATER DATA SOURCES DIRECTORY MAINTAINED BY THE NATIONAL WATER DATA EXCHANGE (NAWDEX)
Acronym WDSD DATA DICTIONARY
Data Base Type Bibliographic
System That Accesses Data Base NAWDEX
Division/Office
Water Resources Division
Contact Person Owen O. Williams
Contact Telephone
(703) 860-6031 (FTS) 928-6031
Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092
Subject Coverage
Description of components of the Water Data Sources Directory (WDSD) data base
Keywords
Data Storage and Retrieval; Information Exchange; Information Retrieval; Water Resources
Geographical Coverage
United States and Canada
Sources of Data in Data Base
NAWDEX Program Office
Time Span of Data Collected
1978 to 1979
Status of Data Base Operational
Users NAWDEX Program Office
Data Availability
Available for unlimited access
Output Media Publication
Storage Media Floppy disc
Size of Data Base
1,409 blocks; 28 bytes per block
Computer Residence
Linolex Word Processor
Language
Linolex Video Text Editor
Abstract
This directory contains a definition and description of each component of the Water Data Sources Directory (WDSD). It is intended, primarily, to assist those persons using the WDSD in understanding and

clarifying information obtained from the data base. This directory may be used independently or in conjunction with the Master Water Data Index, (MWDI), which contains detailed information about sites at which water data are collected. A retrieval may be made from the MWDI, which gives sites at which a particular type of data are collected. The addresses and other information about the organizations operating these sites can then be obtained from the WDSD.

Documentation

Knecht, W. A., and Edwards, M. D., 1978, Definitions of components of the water data sources directory maintained by the National Water Data Exchange: U.S. Geological Survey Open-File Report 77-775, 99 p.

Date of This Information October 1979

138

Name

DIRECT ACCESS DATA INPUT/OUTPUT FILE OF SPATIAL TIME-SERIES DATA FOR NUMERICAL SIMULATION MODELING

Acronym DADIO

Data Base Type Spatial; Temporal

Division/Office

Water Resources Division

Contact Person Robert A. Baltzer

Contact Telephone

(703) 860-6947 (FTS) 928-6947

Contact Address

U.S. Geological Survey
Water Resources Division
MS 430
Reston, VA 22092

Subject Coverage

Hydrologic, oceanographic, and meteorologic information

Keywords

Coastal Zone; Estuarine; Numerical Simulation; Riverine; Simulation Modeling; Time-dependent Boundary Conditions; Unit Values

Geographical Coverage

Data depicts hydrologic characteristics at sites located in riverine, estuarine, and coastal water throughout the United States. File can handle similar time-series data from international sites.

Spatial Data Type Point

Coordinate System

Latitude/Longitude; UTM Northings and Eastings

Sources of Data in Data Base

Field recorded incremental time series; file is composed of precisely sequenced time-series of the hydrologic parameters used with flow/water-quality computer simulation models.

Time Span of Data Collected

Varies from data sequences of a few hours to several years in duration

Status of Data Base Operational

Users

Water Resources Division cooperators; Water Resources Division District project researchers

Data Availability

Available for limited access

Output Media

Interactive access; Magnetic tape; Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base 13,000,000 bytes

Computer Residence

IBM 370/155 Reston, VA (Note: Can be implemented on any 8-bit byte computer system having direct-access capability)

Language FORTRAN IV

Abstract

The utilization of numerical flow/water-quality simulation models to generate hydrologic information for planning and decision-making purposes is playing an increasingly important role in the evaluation of the nation's water resources. These models require extensive amounts of accurately timed field-data in a computer suitable format in order to achieve efficient modeling operations. Data such as time-series of water levels, flow velocities, water temperatures, salinities, wind speed, and wind

direction are examples of the information used in the modeling. Therefore, the data is referenced in both time (T) and space (x,y,z). Similar types of data generated as a result of a modeling effort can be stored and retrieved from the DADIO file as well. DADIO comprises a set of fixed-length records that are referenced by an initial index. The data may be entered or retrieved in any specified amount by direct access methods and is stored in either two- or four-byte machine-code format, thus eliminating all I/O character conversions. Storage device accesses are greatly minimized by virtue of a track indexing scheme. The system is transportable to any other computing system utilizing an eight-bit byte data structure. It is also independent of the direct access hardware employed. An array of data processing programs and simulation models have been implemented utilizing the DADIO file. The simple, yet sophisticated filing system, allows model users to efficiently and economically evaluate their findings.

Documentation

Schaffranek, Raymond W., and Baltzer, Robert A., March 1978, Fulfilling Model Time-Dependent Data Requirements: Coastal Zone '78, Am. Soc. Civil Engineers, Vol. III, P. 2062-2084; Lai, Chintu, Schaffranek, Raymond W., and Baltzer, Robert A., August 1978, An Operational System for Implementing Simulation Models A Case Study: Verification of Mathematical and Physical Models in Hydraulic Engineering, Am. Soc. Civil Engineers, p. 455-464

Date of This Information October 1979

Name

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

Acronym LAC DIRECTORY

Data Base Type Bibliographic

System That Accesses Data Base NAWDEX

Division/Office

Water Resources Division

Contact Person Beverly M. Myers

Contact Telephone

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

Contact Address

U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092

Subject Coverage

NAWDEX Local Assistance Center contacts and addresses

Keywords

Information Exchange; Organizations; Water Resources

Geographical Coverage United States

Sources of Data in Data Base

NAWDEX Program Office

Time Span of Data Collected

1977 to 1979

Status of Data Base Operational

Users

NAWDEX Program office; NAWDEX Members

Data Availability

Available for unlimited access

Output Media Publication

Storage Media Floppy disc

Size of Data Base

1,409 blocks; 28 bytes per block

Computer Residence

Linolex Word Processor

Languages Linolex Video Text Editor

Abstract

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

information needed to contact any of the established centers.

Documentation
Edwards, M. D., 1978, Directory of Local Assistance Centers of the National Water-Data Exchange (NAWDEX): U.S. Geological Survey Open-File Report 78-162, 10 p.

Comments
Updated periodically to include new addresses of Local Assistance Centers

Date of This Information October 1979

140

Name DRAINAGE AREA DATA BASE

Acronym DADB

Data Base Type Spatial

Division/Office
Water Resources Division

Contact Person Lloyd Wagner

Contact Telephone
(518) 472-3107 (FTS) 562-3107

Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1350
Albany, NY 12201

Subject Coverage
Drainage area and stream basin characteristics

Keywords
Drainage Area; Latitude and Longitude; River Miles; Streamflow

Geographical Coverage
New York State and adjoining States

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
USGS hydrologists; Topographic maps

Time Span of Data Collected
1900 to the present

Status of Data Base Under development

Users
Town of Warwick, NY; U.S. Army Corps of Engineers; U.S. Geological Survey, Water Resources Division, New York District

Data Availability
Available for limited access

Output Media Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base
2,000 records at present and 5,000 upon completion; 160 to 480 characters per record

Computer Residence
DATA-100 Albany, NY

Languages PL/1

Abstract
The data base will provide data on drainage areas and other selected basic characteristics that can be used in hydrologic studies. The report will promote uniformity, reduce confusion arising from contradictory published values, and make data on drainage area and other basin characteristics of New York streams readily available. The data base lists station number, name, and location; drainage area; drainage-area class; quadrangle number; quadrangle year; miles above river mouth; and type of measurement.

Documentation None

Date of This Information October 1979

141

Name
DRAINAGE AREAS OF ILLINOIS STREAMS

Acronym DRAINAGE AREA FILE

Data Base Type Spatial

System That Accesses Data Base
WRD ILLINOIS

Division/Office
Water Resources Division

Contact Person Richard W. Healy

Contact Telephone
(217) 398-5363 (FTS) 958-5365

Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1026
Champaign, IL 61820

Subject Coverage Drainage areas

Keywords
Drainage Areas; Drainage Divides; River Basins; Rivers; Streams; Surface Drainage; Surface Waters; Topography; Water Sheds

Geographical Coverage
State of Illinois

Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS hydrologists and technicians using USGS 7-1/2' and 15' topographic quandrangles
Time Span of Data Collected
1968 to 1979
Status of Data Base Operational
Users
U.S. Geological Survey, Water Resources Division hydrologists
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media
Magnetic tape; Punched cards; Text
Size of Data Base
3,500 records; 240 characters per record
Computer Residence
IBM 370/155 Reston, VA; CDC CYBER 175 University of Illinois, Champaign, IL
Language FORTRAN
Abstract
The drainage-area file for Illinois streams contains information on all sites where drainage areas have been determined by the USGS within Illinois. The information is stored sequentially by site in downstream order and includes: drainage area size in square miles, site name, stream rank, USGS gaging-station number, latitude, longitude, 1/4 section, township, range, topographic quadrangle, county, and hydrologic-unit number.
Documentation
Ogata, K. M., 1975, Drainage Areas for Illinois Streams: U.S. Geological Survey Water Resources Investigations 13-75, 124 p.
Date of This Information October 1979

142

Name
FIRST NAWDEX MEMBERSHIP CONFERENCE PROCEEDINGS
Acronym FIRST CONF
Data Base Type Bibliographic
System That Accesses Data Base NAWDEX
Division/Office
Water Resources Division
Contact Person Beverly M. Myers
Contact Telephone
(703) 860-6031 (FTS) 928-6031
Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092
Subject Coverage
Proceedings of first membership conference of NAWDEX
Keywords
Data Storage And Retrieval; Information Exchange
Geographical Coverage United States
Source of Data in Data Base
NAWDEX Program Office
Time Span of Data Collected
1978 to 1979
Status of Data Base Operational
Users
NAWDEX Program Office; NAWDEX Members; Water data users
Data Availability
Available for limited access
Output Media Publication
Storage Media Floppy disc
Size of Data Base
1,409 blocks; 28 bytes per block
Computer Residence
Linolex Word Processor (3M)
Languages
Linolex Text Video (3M)
Abstract
The National Water Data Exchange, a national confederation of water-oriented organizations, held its first membership conference in Denver, CO, on May 9-11, 1978. The purpose of the conference was to acquaint participants in the NAWDEX program with the systems, data resources, and services available and to establish improved personal

relationships within the membership and throughout the water-data community. There were 84 registered participants. Sixteen papers were presented at the conference. Four working groups were also conducted dealing with program administration, management, and coordination; recommended standards for the handling and exchange of water data; water-data indexing and technical systems development; and request, response, and service activities.

Documentation
Myers, B. M., and Nokes, J. M., (compilers), 1979, Proceedings of the First Membership Conference of the National Water Data Exchange, May 9-11, 1978, Denver, Colorado: U.S. Geological Survey Open-File Report 79-206, 217 p.

Comments
Published for the convenience of the NAWDEX members

Date of This Information October 1979

143

Name FLOOD MAP INVENTORY

Acronym FMI

Data Base Type Bibliographic

Division/Office
Water Resources Division

Contact Person Terry A. Wilson

Contact Telephone
(703) 860-6872 (FTS) 928-6872

Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage Index of flood maps

Keywords
Flood Data; Inventory; Mapping; Maps

Geographical Coverage
U.S.A. and territories covered by 7-1/2' and 15' quadrangles

Sources of Data in Data Base
U.S. Geological Survey, Water Resources Division, Surface Water Branch hydrologists

Time Span of Data Collected
1913 to 1979

Status of Data Base Operational

Users
WRD and registered WATSTORE users

Data Availability
Available for unlimited access

Output Media
Batch computer printout; Publication

Storage Media Magnetic tape

Size of Data Base
10,835 records; 150 characters per record

Computer Residence
IBM 370/155 Reston, VA

Language PL/1

Abstract
The Flood Map Inventory File was created by the WRD Surface Water Branch as a RALI project in 1973. It contains data for all flood maps prepared by the Water Resources Division that have been released to the public. Included in the file are maps appearing in Hydrologic Atlases, Circulars, Water-Supply Papers, Professional Papers, and reports published by cooperators. The bulk of the file consists of flood-prone-area maps. All maps in the file are identified on 7-1/2' or 15' quadrangles. Retrieval selection is available for State, county, quadrangle number of SMSA code. Retrieval is made using Program G198. Output is a computer printout listing of flood map data.

Documentation
Carrigan, P. H., and Wilson, T. A., Instructions for Flood Map Inventory File Retrieval and Update--1973, 20 p.

Comments
The Flood Map Inventory File is maintained by the WRD ADP unit in Reston, VA. Entries or updates may be sent to the ADP unit for processing. The file is open ended, new entries being added whenever available.

Date of This Information October 1979

Name
FLOOD PLAIN SIMULATION FACILITY DATA
Acronym FPDATA
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Verne R. Schneider
Contact Telephone
(601) 688-3350 (FTS) 494-3350
Contact Address
U.S. Geological Survey
Water Resources Division
Gulf Coast Hydroscience Center, Building 2101
National Space Technology Laboratories
NSTL Station, MS 39529
Subject Coverage
Stage and velocity data
Keywords
Contracted Opening; Flood Plain; Patterned Roughness; Stage; Steady Flow; Uniform Roughness; Unsteady Flow; Velocity
Geographical Coverage
Flood Plain Simulation Facility (A 4,500-foot by 300-foot research model used to study open channel flow hydraulics).
Spatial Data Type Point
Coordinate System
Arbitrary X, Y coordinates
Sources of Data in Data Base
USGS hydrologists and technicians or contractors under USGS supervision; hydrologic data collected on the Flood Plain Simulation Facility located at the Gulf Coast Hydroscience Center.
Time Span of Data Collected
1973 to the present
Status of Data Base Operational
Users
USGS researchers on the Physical Models of Hydrologic Systems Project at Gulf Coast Hydroscience Center
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media Disc; Text
Size of Data Base
12,500 records of stage data, 288 words per record; 13,300 records of velocity data, 130 words per record
Computer Residence
IBM/Applied Physics Laboratory, Johns Hopkins University, Baltimore, MD
Languages FORTRAN IV
Abstract
Hydrologic data is collected as part of a research program investigating flow in wide low-gradient flood plains under controlled conditions. Experiments include steady and unsteady flow. Flow was over uniform roughness and patterned roughness. Contracted and multiple openings were used for some of the experiments. Coastal Bermuda grass was used for roughness. Steady flow discharges ranged from approximately 50 cfs (1.42 cms) to 210 cfs (5.95 cms). Unsteady flow experiments had a base flow of 70 cfs (1.98 cms) or 14 cfs (0.40 cms) and a peak flow of 210 cfs (5.95 cms).
Documentation
Collins, D. L., and Flynn, K., 1977, Data for flow through a wide flood plain with uniform grass roughness: U.S. Geological Survey Open-File Report, 100 p. (complete--waiting approval); Collins, D. L., and Flynn, K., 1977, Data for flow through a wide flood plain with a nonuniform grass roughness: U.S. Geological Survey Open-File Report, 100 p. (being prepared for approval); Kaehrle, W. R., and Druffel, L. A., 1978, Data for flow through width costrictions of a flood plain with uniform grass roughness: U.S. Geological Survey Open-File Report, 100 p. (in work).

Comments
This data will be useful in calibrating 2-D computer flow models.
Date of This Information October 1979

145

Name
FULL STATE DIGITIZED HYDROLOGIC UNIT LINES DATA BASE
Acronym FLSTBASE
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Paul Kapinos
Contact Telephone
(703) 860-6935 (FTS) 928-6935
Contact Address
U.S. Geological Survey
Water Resources Division
Office of Water Data Cooordination
MS 417
Reston, VA 22092
Subject Coverage
Digitized hydrographic boundaries of major U.S. river basins
Keywords
Data Base; Digitized; Hydrologic-Unit Boundaries; Hydrologic-Unit Code; River Basins
Geographical Coverage
All fifty States; Puerto Rico; Virgin Islands; Canal Zone
Spatial Data Type
Polygon (Hydrologic Unit)
Coordinate System Latitude/Longitude
Sources of Data in Data Base
State hydrologic unit maps/Mylar bases digitized by Eastern Mapping Center, Topographic Division
Time Span of Data Collected 1972
Status of Data Base Under development
Users
Department of Energy; Environmental Protection Agency; National Weather Service; Office of Water Data Coordination; State Departments of Natural Resources
Data Availability
Available for unlimited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
About 48,000 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV; EASYTRIEVE
Abstract
A series of uniform, nationally consistent State hydrologic-unit maps that accurately delineate the hydrographic boundaries of major U.S. river basins has been prepared by the U.S. Geological Survey in cooperation with the U.S. Water Resources Council. These maps provide a standardized base for use by Federal and State water-resources agencies throughout the country. The delineated hydrologic unit boundaries were digitized (at a scale of 1:1,000,000) and edited as State or partial State data bases. The partial States data bases were then combined to form full State data bases. These individual data sets will be compiled as the FLSTBASE data base. A computer program HUCCODE (used as a subroutine) was developed to use the FLSTBASE to identify the hydrologic unit code associated with the point location of a data site.
Documentation None
Date of This Information October 1979

146

Name
GAZETTEER OF LAKES, PONDS, AND RESERVOIRS
Acronym GAZETTEER
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Melinda M. Lanza
Contact Telephone
(518) 472-3107 (FTS) 562-3107
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1350
Albany, NY 12201

Subject Coverage
Listing of physical characteristics of lakes in New York State.
Keywords
Lakes; Location; Physical Characteristics
Geographical Coverage
State of New York
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Files of the New York District of the Water Resources Division
Status of Data Base Operational
Users
New York State Department of Environmental Conservation; U.S. Geological Survey, Water Resources Division New York District
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Punched cards
Size of Data Base 3,000 cards
Computer Residence
DATA 100 Albany, NY
Languages FORTRAN
Abstract
Data base contains fixed-length records of descriptions of lakes, including name, county, quadrangle, drainage basin, latitude, longitude, elevation, drainage area, surface area, shore mileage, and volume. These can be listed by county or drainage basin.
Documentation
Greeson, Phillip E., and Williams, George E., 1970, Characteristics of New York Lakes: U.S. Geological Survey Bulletins 68A and 68B, 242 p.
Date of This Information October 1979

147

Name
GENERALIZED RETRIEVAL SYSTEM HEADING FILE
Acronym HEADING FILE
Data Base Type
Scientific and Technical
System That Accesses Data Base
NATIONAL WATER DATA EXCHANGE (NAWDEX)
Division/Office
Water Resources Division
Contact Person Owen O. Williams
Contact Telephone
(703) 860-6031 (FTS) 928-6031
Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092
Subject Coverage
File of table headings used in the Master Water Data Index Generalized Retrieval System Report Program
Keywords Hydrology; Reports
Source of Data in Data Base
NAWDEX Program Office
Status of Data Base Operational
Users
Private consultants; Science Education Administation; Soil Conservation Service; State geological organizations; Texas Natural Resources Information System; University of Arizona; U.S. Fish and Wildlife Service; WRD headquarters and district personnel
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Punched cards
Storage Media Punched cards; Disc
Size of Data Base
150 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract
This file contains headings for each component in the Master Water Data Index (MWDI). It is used by the Report Program of the MWDI Generalized Retrieval System. This system is one of several available to members and affiliates of the National Water Data Exchange and Water Resources Division.

Documentation
Knecht, W. A., and Harding, J., 1977, MWDI retrieval system users manual: U.S. Geological Survey, 58 p.
Date of This Information October 1979

148

Name GEOLOGIC INFORMATION FILE
Acronym GI FILE
Data Base Type Spatial
System That Accesses Data Base IWARDS
Division/Office
Water Resources Division
Contact Person Daniel J. Gockel
Contact Telephone
(319) 338-1173 (FTS) 863-6521
Contact Address
U.S. Geological Survey
Water Resources Division
123 North Capitol Street
Iowa City, IA 52240
Subject Coverage Geologic information
Keywords
Geologic; Overburden; Stratigraphic
Geographical Coverage State of Iowa
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Well logs, outcrops, and drillers' logs
Time Span of Data Collected
Circa 1975 to the present
Status of Data Base Operational
Users
State Geological Survey; U.S. Geological Survey, Water Resources Division
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media
Magnetic tape; Punched cards
Size of Data Base 54,000 records
Computer Residence IBM/Iowa City, IA
Languages IWARDS
Abstract
This geologic system contains information about a well or section that enables one to determine its location and other identifying numbers, depth to geologic unit tops, total depth, land surface altitude, and any significant economic rocks or minerals encountered with the well or exposed in the section.
Documentation
Iowa Geological Survey, 1967, Data Processing System, Instruction Manual, mimeographed, 29 p.
Comments
IWARDS is a data base management system for managing Iowa resources data
Date of This Information October 1979

149

Name GEOLOGIC UNIT FILE
Acronym GEO-UNITS
Data Base Type
Scientific and Technical
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Charles O. Morgan
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Generic codes for aquifers assigned by mnemonic scheme.
Keywords
Aquifer; Geology; Ground Water; Hydrology
Geographical Coverage United States
Sources of Data in Data Base
USGS geologists; generic codes assigned by mnemonic scheme to aquifers throughout the United States
Time Span of Data Collected
1972 to the present
Status of Data Base Operational
Users
USGS and registered WATSTORE users
Data Availability
Available for unlimited access

Output Media
Batch computer printout; Publication
Storage Media Magnetic tape; Disc
Size of Data Base
7,481 records; 2,500,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract
This file is a dictionary containing generic codes which have been assigned to aquifers throughout the United States. The code also indicates the age of the aquifer. This file is interfaced with the Water Quality Data File and the Station Header File, such that a geologic-unit code (an aquifer code) cannot be stored in either file unless it already exists in the Geologic Unit File.
Documentation
Hutchison, N. E., compiler, 1975, WATSTORE--National Water Data Storage and Retrieval System of the U.S. Geological Survey--User's guide: U.S. Geological Survey Open-File Report 75-426, 532 p.
Date of This Information October 1979

150

Name GOES DATA COLLECTION SYSTEM FILE
Acronym WRD.GOES
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Charles F. Merk
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Hydrologic information; Satellite communications
Keywords
Ground Water; Hydrologic Data; Hydrologic Instrumentation; Satellite Communications; Surface Water; Water Quality
Geographical Coverage
United States; Central America; South America
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Data Collection Platforms; National Oceanic and Atmospheric Administration's (NOAA) Geostationary Operational Environmental Satellite (GOES); NOAA National Environmental Satellite Service (NESS) GOES Data Processing System
Time Span of Data Collected
1974 to the present
Status of Data Base Operational
Users
Hydrologists from Federal, State and local government offices, including Bureau of Land Management, U.S. Army Corps of Engineers, U.S. Geological Survey, and National Weather Service
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Punched cards
Storage Media Disc
Size of Data Base
24,000 records; 128 characters per record
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract
The data in the GOES DCS file are hydrological measurements from USGS WRD field instruments, such as automatic digital recorders and water-quality monitors, equipped with special devices called Data Collection Platforms (DCP's). DCP's make it possible for data recorded at remote sites to be relayed by a satellite to a central collection station. Each data record represents a transmission

generated by the Data Collection System. The record contains the DCP identification number, USGS station identification number, date and time of data transmission, and sets of data readings acquired automatically from hydrologic sensors at the station.

Documentation
Hutchison, N. E., and others, 1977, National Water Data Storage and Retrieval System--Volume 5

Date of This Information October 1979

151

Name GROUND-WATER SITE INVENTORY
Acronym GWSI
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Charles O. Morgan
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Computerized retrievals of data related to ground water. The National Ground Water Data Base.
Keywords
Aquifer; Ground Water; Hydraulics; Lithology; Spring; Water Level; Water Quality; Water Use; Well Construction
Geographical Coverage
United States and Territories
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Field and district hydrologists and technicians who monitor and inventory ground water sites. Input from all field offices of the U.S. Geological Survey, Water Resources Division.
Time Span of Data Collected
1800's to the present
Status of Data Base Operational
Users Registered WATSTORE Users
Data Availability
Available for unlimited access
Output Media
Interactive access; Magnetic tape; Batch computer printout; Publication
Storage Media Magnetic tape; Disc
Size of Data Base
646,625 sites @ 574 bytes = 371,162,850 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages
COBOL, PL/1, SYSTEM 2000 NATURAL LANGUAGE, FORTRAN IV
Abstract
The Ground Water Site Inventory (GWSI) is a SYSTEM 2000 data base that provides storage and retrieval facilities for all ground-water data. Stored are as many as 200 data elements per site which are retrieved via SYSTEM 2000's Natural Language or application programs written in PL/1, COBOL and FORTRAN. Examples of data stored are the site identification composed of the latitude and longitude of the geographic position, aquifer code, owner's name, and all other pertinent information that thoroughly describes a well or spring.
Documentation
Baker, C. H., Jr., and others, November 1975, National Water Data Storage and Retrieval System; U.S. Geological Survey Open-File Report 75-589.
Comments
Data base is divided into four segments corresponding to the four regions of the Water Resources Division. Expanding at a rate of about 50,000 site records per year, the projected size of the data base, with mass entries of historical data, is between one million and two million sites.
Date of This Information October 1979

152

Name
HIGH PLAINS REGIONAL AQUIFER SYSTEM ANALYSIS
Acronym AQUIFERS
Data Base Type Spatial
System That Accesses Data Base
RASA PROJECTS
Division/Office
Water Resources Division
Contact Person Richard R. Luckey
Contact Telephone
(303) 234-6017 (FTS) 234-6017
Contact Address
U.S. Geological Survey
Water Resources Division
High Plains Regional Aquifer Study
P.O. Box 25046, MS 412
Denver Federal Center
Lakewood, CO 80225
Subject Coverage
Hydrologic, geologic, agricultural, and meteorological data
Keywords
Aquifer Management; Computer Models; Ground Water; Interpretive Data; Regional Studies
Geographical Coverage
States of Nebraska, Kansas, Wyoming, Colorado, Oklahoma, Texas, New Mexico, and South Dakota
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Interpretive data from hydrologists in the eight-state High Plains area
Time Span of Data Collected
1978 to 1982
Status of Data Base Under development
Users
U.S. Geological Survey District offices; High Plains Regional Aquifer Systems Analysis (RASA) Project offices
Data Availability
Available for limited access
Output Media Publication
Storage Media Disc
Size of Data Base 25,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Language SYSTEM 2000; FORTRAN IV
Abstract
This data system is designed to store and retrieve interpretive hydrologic data for the High Plains Regional Aquifer System Analysis (RASA) Project. This data base will help organize information collected over several decades in eight States and arrive at consistent interpretation of the data. The data base will then provide all users with hydrologic and related data at a scale suitable for interpretation and modeling.
Documentation
Weeks, John B., 1978. Plan of study for the High Plains Regional Aquifer System Analysis in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming. U.S. Geological Survey Water-Resources Investigations 78-70, 32 p.
Comments
Data base is under development and should be operational by December 1979. The concepts are applicable to all area interpretive data.
Date of This Information October 1979

153

Name
HISTORIC MONTHLY MEAN DISCHARGE DATA
Acronym HISDAT
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Clyde W. Alexander
Contact Telephone
(503) 231-2024 (FTS) 429-2024
Contact Address
U.S. Geological Survey
Water Resources Division
Northwest Water Resources Data Center
P.O. Box 3202
Portland, OR 97208
Subject Coverage
Water-resources information; Monthly mean discharge; Reservoir storage

Keywords
Hydrologic Data; Storage; Streamflow; Surface Water
Geographical Coverage
Selected stations in the States of Washington, Oregon, Idaho, Montana, and Wyoming and the Province of British Columbia
Spatial Data Type Point
Coordinate System Station number
Sources of Data in Data Base
Computed by Northwest Water Resources Data Center from daily gage heights obtained from USGS gages and reservoir projects by the Columbia River Operational Hydrometeorological Management System (CROHMS); Updated with published USGS data when available
Time Span of Data Collected
Period of record to current month.
Status of Data Base Operational
Users
Northwest Water Resources Data Center
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media
Magnetic tape; Punched cards
Size of Data Base
150 records; Each record contains (12X127) numerical values
Computer Residence
CDC Portland, OR (owned by Bonneville Power Administration)
Languages FORTRAN IV
Abstract
The Northwest Water Resources Data Center prepares a monthly summary of runoff conditions in the Pacific Northwest. This summary and other statistical computations are based on long term records of monthly-mean-discharge data and end-of-month reservoir storage. HISDAT is the working base used by several special-purpose computer programs developed and maintained by the Northwest Water Resources Data Center. Some of the monthly-mean-discharge data is adjusted for storage in one or more reservoirs. The month-end reservoir data is measured as total contents in acre-feet. HISDAT also contains 15-year averages by month, monthly maximum and minimum information, and assorted codes.
Documentation None
Comments
This special purpose data file is based on and (or) derived from a data base maintained by the U.S. Geological Survey in Reston, VA; also contains some Canadian data and some reservoir-outflow and storage data for some non-USGS data-collection sites
Date of This Information October 1979

154

Name HYDROGEOLOGY SUBFILE
Acronym HY
Data Base Type Spatial
System That Accesses Data Base
THE WELL DATA BASE
Division/Office
Water Resources Division
Contact Person George W. Hawkins
Contact Telephone
(516) 938-8830
Contact Address
U.S. Geological Survey
Water Resources Division
5 Aerial Way
Syosset, NY 11791
Subject Coverage
Well hydrogeology data
Keywords
Aquifer; Ground Water; Storage
Geographical Coverage
Long Island, NY
Spatial Data Type Point
Coordinate System
Arbitrary X,Y coordinates
Sources of Data in Data Base
USGS hydrologists and technicians and Long Island cooperators
Time Span of Data Collected
1900 to the present
Status of Data Base Under development
Users
U.S. Geological Survey hydrologists and technicians
Data Availability Not yet available

Output Media
Interactive access; Magnetic tape; Batch computer printout; Punched cards
Storage Media Magnetic tape
Size of Data Base
Unknown at this time
Computer Residence
Data General NOVA 1220 Syosset, NY
Languages FORTRAN IV; ASSEMBLY
Abstract
This will be a file of hydrogeology. The file will also be used to store the inactive site information which is not in the well-header file.
Documentation
Hawkins, George W., Introduction to the Syosset well data base. Hawkins, George W., The well database subfiles.
Date of This Information October 1979

155

Name
HYDROLOGIC DATA STATIONS MAINTAINED BY THE USGS IN ILLINOIS
Acronym HYDROLOGIC DATA STATIONS
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Richard W. Healy
Contact Telephone
(217) 398-5365 (FTS) 958-5365
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1026
Champaign, IL 61820
Subject Coverage
Gaging-station information
Keywords
Ground Water; Hydrologic Data; Observation Wells; Streamflow; Surface Water
Geographical Coverage
State of Illinois
Spatial Data Type Point
Coordinate System
Station identification number (in downstream order)
Sources of Data in Data Base
U.S. Geological Survey hydrologists and technicians
Time Span of Data Collected 1977
Status of Data Base Operational
Users
U.S. Geological Survey, Water Resources Division hydrologists
Data Availability
Available for unlimited access
Output Media
Publication; Punched cards
Storage Media Punched cards
Size of Data Base
1,000 records; 240 characters per record
Computer Residence
IBM 370/155 Reston, VA; CDC CYBER 175 University of Illinois, Champaign, IL
Languages PL/1
Abstract
Hydrologic Data Stations contains the USGS gaging station number, name, and type of data collected at every USGS gaging station in Illinois during the current water year.
Documentation
Winget, Delbert E., 1978, Water Resources Activities in Illinois, 1977, 33 p.
Date of This Information October 1979

156

Name
HYDROLOGIC UNIT NAME AND DESCRIPTION DATA BASE
Acronym HUNDBASE
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Paul Kapinos
Contact Telephone
(703) 860-6935 (FTS) 928-6935
Contact Address
U.S. Geological Survey
Water Resources Division
Office of Water Data Coordination
MS 417
Reston, VA 22092

Subject Coverage
Names and descriptions of the hydrologic units for 21 regions, 222 subregions, 349 accounting units, and 2,100 cataloging units
Keywords
Hydrologic Unit; River Basins
Geographical Coverage
All fifty States; Puerto Rico; Virgin Islands; Canal Zone
Spatial Data Type
Polygon (Hydrologic Unit)
Coordinate System Latitude/Longitude
Sources of Data in Data Base
List of hydrologic unit names and descriptions
Time Span of Data Collected 1978
Status of Data Base Under development
Users
Office of Water Data Coordination, users of the Hydrologic Unit Maps
Data Availability
Available for unlimited access
Output Media Punched cards
Storage Media Punched cards
Size of Data Base
3,000 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages EASYTRIEVE
Abstract
A series of uniform, nationally consistent State hydrologic-unit maps that accurately delineate the hydrographic boundaries of major U.S. river basins has been prepared by the U.S. Geological Survey in cooperation with the U.S. Water Resources Council. These maps provide a standardized base for use by Federal and State water-resources agencies throughout the country. The Hydrologic Unit Name and Description Data Base (HUNDBASE) contains the names and descriptive coverage of the regions, subregions, and accounting and cataloging units. The purpose of HUNDBASE is to produce selected excerpts or complete computer listings of the information, to allow easy correction or updating of the names and descriptions, and to have a flexible format so that additional hydrologic-unit information can be added as needed in the future.
Documentation None
Date of This Information October 1979

157

Name
INDEX OF ACTIVE FLORIDA WATER DATA COLLECTION STATIONS
Acronym FINDEX
Data Base Type
Bibliographic
Division/Office
Water Resources Division
Contact Person
James D. Simmons
Contact Telephone
(904) 386-1118 (FTS) 946-4251
Contact Address
U.S. Geological Survey
Water Resources Division
325 John Knox Road Bldg F Suite 150
Tallahassee, FL 32303
Subject Coverage
Information on Florida's active water-data collection sites
Keywords
Ground Water; Hydrologic Data; Surface Water; Quality Water
Geographical Coverage
State of Florida
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS hydrologists and technicians
Time Span of Data Collected
Current Fiscal Year
Status of Data Base Operational
Users
Department of Environmental Regulation, Florida; State Water Management Districts; U.S. Geological Survey, Water Resources Division offices
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Punched cards
Storage Media Disc

Size of Data Base
Total of 12,000 records for all files; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV
Abstract
The cards for each site contain the identification number, name, location, type of site and county, as well as information concerning funding and data collection. The computer program H578 retrieves and lists entries in a publication format.
Documentation
Merritt, Michael L., A Description of the Index of Active Florida Water Data Collection Stations: USGS Open-File Report 77-703, 70 p.
Comments
This data base is comprised of files for Miami, Tampa, Tallahassee, and Orlando. A file also exists that identifies all the Florida cooperators.
Date of This Information October 1979

158

Name
KANSAS ANNUAL WATER LEVEL CHANGE FILE
Acronym KAWL
Data Base Type Spatial
System That Accesses Data Base
KANSAS WRD PROGRAMS
Division/Office
Water Resources Division
Contact Person Jesse M. McNellis
Contact Telephone
(913) 843-0701 (FTS) 752-2302
Contact Address
U.S. Geological Survey
Water Resources Division
1950 Avenue A, Campus West
Lawrence, KS 66045
Subject Coverage
Water-level information, subset of the Kansas Water Level File
Keywords
Aquifer; Ground Water; Location; Water Level
Geographical Coverage
Western half of Kansas
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
WRD hydrologists and technicians and cooperating State agency personnel
Time Span of Data Collected
1940 to the present
Status of Data Base Operational
Users
Kansas cooperating agencies through WRD District office in Lawrence, KS
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media
Magnetic tape; Punched cards
Size of Data Base
2,800 records; 80 characters per record
Computer Residence
HIS University of Kansas, Lawrence, KS
Languages FORTRAN
Abstract
Annual changes in water level in the high intensity irrigation areas of western Kansas are derived from this file. The file has been in use about six years. Items include, State, county, altitude of land surface, township and range location, depth to bedrock, base year depth to water, aquifer and depth to water in January of each year beginning in 1970. Two to four records constitute one entry.
Documentation None
Comments
The data in this data base is in the National Ground Water Site Inventory
Date of This Information October 1979

159

Name
KANSAS GROUND-WATER WATER QUALITY FILE
Acronym KGQW
Data Base Type Spatial
System That Accesses Data Base
KANSAS WRD PROGRAMS
Division/Office
Water Resources Division
Contact Person Jesse M. McNellis
Contact Telephone
(913) 843-0701 (FTS) 752-2302
Contact Address
U.S. Geological Survey
Water Resources Division
1950 Avenue A, Campus West
Lawrence, KS 66045
Subject Coverage
Water-quality information from ground water
Keywords
Aquifer; Chemical Analyses; Ground Water; Locations; Water Quality
Geographical Coverage State of Kansas
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
WRD hydrologists and technicians and cooperating State agency personnel
Time Span of Data Collected
1928 to the present
Status of Data Base Operational
Users
Kansas cooperating agencies through WRD District office in Lawrence, KS
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media
Magnetic tape; Punched cards
Size of Data Base
33,478 records; 80 characters per record
Computer Residence
HIS University of Kansas, Lawrence, KS
Languages FORTRAN

Abstract
This file has been used for about 15 years in Kansas District operations and contains information gathered during the course of cooperative program investigations in Kansas. It is a fixed format file and contains data about the following: State, county, township and range location, date, well or sampling depth, type analysis, silica, aluminum, iron, manganese, calcium, magnesium, sodium, potassium, bicarbonate, carbonate, sulfate, chloride, analyst, aquifers, fluoride, nitrate, phosphate, boron, dissolved solids, hardness, noncarbonate hardness, alkalinity such as $CaCO_3$ and free CO_2, Sodium Adsorption Ratio, residual sodium, Specific conductance, pH, temperature in ^{o}F, and source of data. Two records constitute one entry.
Documentation
Morgan, C. O., and McNellis, Jesse M., 1969 Stiff Diagrams of Water Quality Data Programmed for the Digital Computer. Special Distribution Publication 43, Kansas Geological Survey, 27 p.
Comments
Some of the data in this data base is in WATSTORE, and all will be before end of FY 79.
Date of This Information October 1979

160

Name KANSAS WATER LEVEL FILE
Acronym KWL
Data Base Type Spatial
System That Accesses Data Base
KANSAS WRD PROGRAMS
Division/Office
Water Resources Division
Contact Person Jesse M. McNellis
Contact Telephone
(913) 843-0701 (FTS) 752-2302
Contact Address
U.S. Geological Survey
Water Resources Division
1950 Avenue A, Campus West
Lawrence, KS 66045

Subject Coverage
Water level information
Keywords
Aquifer; Ground Water; Locations; Water Levels
Geographical Coverage State of Kansas
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
WRD hydrologists and technicians and cooperating State agency personnel
Time Span of Data Collected
1928 to the present
Status of Data Base Operational
Users
Kansas cooperating agencies through WRD District office in Lawrence, KS
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media
Magnetic tape; Punched cards
Size of Data Base
82,500 records; 80 characters per record
Computer Residence
HIS University of Kansas, Lawrence, KS
Languages FORTRAN
Abstract
This file has been used for about 15 years in District operations and contains information accumulated during the course of investigations by WRD and state agencies. Items in file include: State, county, latitude, longitude, township and range location, owner, altitude, water table or artesian, use of water, use of well, aquifer, depth, measuring point, records available, well-description text for table headings, water-level measurement (including month, day, and year), depth to water, status of well, type of measurement, and frequency of measurement. Ten to several hundred records constitute one entry.
Documentation
Lang, S. M., and Leonard, A. R., 1967, Punch Card System For the Storage and Retrieval of Ground-water Data. U.S. Geological Survey Open-File Report, 93 p.
Comments
The data in this data base is in GWSI.
Date of This Information October 1979

161

Name KANSAS WELL SCHEDULE FILE
Acronym KWS
Data Base Type Spatial
System That Accesses Data Base
KANSAS WRD PROGRAMS
Division/Office
Water Resources Division
Contact Person Jesse M. McNellis
Contact Telephone
(913) 864-4321 (FTS) 752-2302
Contact Address
U.S. Geological Survey
Water Resources Division
1950 Avenue A, Campus West
Lawrence, KS 66045
Subject Coverage
Water-well information--Typical WRD well schedules
Keywords
Altitude; Aquifer; Ground Water; Locations; Water Level; Well Characteristics
Geographical Coverage State of Kansas
Spatial Data Type Grid
Coordinate System Latitude/Longitude
Sources of Data in Data Base
WRD hydrologists and technicians and Kansas Geological Survey hydrologists and technicians
Time Span of Data Collected
1928 to 1979
Status of Data Base Operational
Users
Bureau of Reclamation; Kansas Cooperating Agencies--Kansas Board of Agriculture, Kansas Department of Transportation, Kansas Geological Survey, Kansas Water Resources Board; U.S. Army Corps of Engineers (all through WRD District office in Lawrence)

Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer Printout; Publication; Punched cards
Storage Media
Magnetic Tape; Punched Cards
Size of Data Base
64,000 Records; 80 characters per record
Computer Residence
HIS University of Kansas, Lawrence, KS
Language FORTRAN
Abstract
This file has been used for about fifteen years and contains the well schedule information accumulated by the cooperative program between WRD and Kansas State agencies since the program began. Some topics in the file include county, State, township and range location, owner, altitude, topography, well depth, well diameter, casing, power, pump setting, water level, yield, aquifer, lithology, bedrock, date water level measured, ownership category, method drilled, physiographic province, basin, depth to basement. Two to three records constitute one entry.
Documentation
Morgan, C. O., and McNellis, Jesse M., 1965, Storage and Retrieval of Well Data, Unpublished Kansas District Use Only, 35 p.
Comments
The data in this data base is being placed into the National Ground Water Site Inventory. This task will be accomplished during FY 1979. All Kansas geographic locations are there now.
Date of This Information October 1979

162

Name
LAKES IN THE MINNEAPOLIS-ST. PAUL METROPOLITAN AREA
Acronym LAKEHYD
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Gerald D. Wilson
Contact Telephone
(612) 725-7841 (FTS) 725-7841
Contact Address
U.S. Geological Survey
Water Resources Division
702 Post Office Building
St. Paul, MN 55112
Subject Coverage
Lakes in Minneapolis-St. Paul, Minnesota area: location, depth, area, levels, ecological and game-management classification, streams, soils, geology, problems, and water added or removed
Keywords
Hydrogeology; Hydrology; Lakes; Limnology; Water Use
Geographical Coverage
Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington Counties of Minnesota (Minneapolis-St. Paul metropolitan area)
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Cities; Consulting firms; Counties; Minnesota Department of Natural Resources files; Minnesota Geological Survey; Minnesota Pollution Control Agency; Topographic maps; University of Minnesota; U.S. Geological Survey files; Water districts
Time Span of Data Collected
1890 to 1975
Status of Data Base Operational
Users U.S. Geological Survey
Data Availability
Available for unlimited access
Output Media
Interactive access; Magnetic tape; Batch computer printout; Publication
Storage Media
Magnetic tape; Disc; Text
Size of Data Base 949 entries
Computer Residence
CDC CYBER 74 and 172 University of Minnesota
Language SYSTEM 2000

Abstract
This data base contains information on hydrology and hydrogeology of 949 lakes in the Minneapolis-St. Paul metropolitan area, Minnesota. Included are all lakes 10 acres (4 hectares) or larger in Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington Counties. Data covers the location, depth, area, level, ecological and game-management classification, in- and out-flowing streams, soils, bedrock type, water added or removed, contual structures, and reported problems. SYSTEM 2000, a general-purpose data-base management system, was used to organize the data. A printed report is available, or the data base can be accessed interactively or by batch processing.

Documentation
McBride, M. S., 1976, Hydrology of lakes in the Minneapolis-St. Paul metropolitan area: a summary of available data; U.S. Geological Survey Water-Resources Investigations 76-85, 317 p.

Date of This Information October 1979

163

Name
LANDSAT DATA COLLECTION SYSTEM FILE

Acronym WRD.LANDSAT

Data Base Type Spatial

System That Accesses Data Base
WATSTORE

Division/Office
Water Resources Division

Contact Person Charles F. Merk

Contact Telephone
(703) 860-6871 (FTS) 928-6871

Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage
Hydrologic data transmitted via satellite communications

Keywords
Collection System; Hydrologic Instrumentation; LANDSAT; Remote Sensing; Satellite Data

Geographical Coverage United States

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Real-time hydrologic data from data-collection platforms are entered into the data base automatically from NASA Operations Control Center, Greenbelt, MD

Time Span of Data Collected
1974 to the present

Status of Data Base Operational

Users
Hydrologists from the following agencies: National Weather Service; U.S. Army Corps of Engineers; U.S. Geological Survey

Data Availability
Available for limited access

Output Media
Batch computer printout; Magnetic tape; Punched cards

Storage Media Disc

Size of Data Base
50 records; 12,000 characters per record

Computer Residence
IBM 370/155 Reston, VA

Languages PL/1

Abstract
The purpose of the LANDSAT Data Collection System File is to provide a single source of data transmitted from data-collection platforms through NASA's LANDSAT Data Collection System to earth receiver sites. Data-collection platforms, which are battery operated radios that have been interfaced to hydrologic instrumentation, broadcast data sensed automatically at remote locations. Parameters include stream gage height, water temperature, pH, specific conductance, accumulated rainfall, and water level in well.

Documentation
Hutchison, N. E., and others, 1977, National Water Data Storage and Retrieval System--Volume 5

Comments
The LANDSAT data base will be obsolete by January, 1980, owing to the experimental nature of the NASA Project.
Date of This Information October 1979

164

Name MASTER WATER DATA INDEX
Acronym MWDI
Data Base Type Spatial
System That Accesses Data Base NAWDEX
Division/Office
Water Resources Division
Contact Person Owen O. Williams
Contact Telephone
(703) 860-6031 (FTS) 928-6031
Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092
Subject Coverage
Index of information about water-data collection sites
Keywords
Ground Water; Hydrologic Data; Surface Water; Water Quality
Geographical Coverage
United States; Canada; Mexico
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Original data base created from WRD Catalog of Information on Water Data, WRD MIS Hydrologic Station File, and WATSTORE Header file; Current sources include WATSTORE, Environmental Protection Agency's STORET System, WRD districts, and other water-data organizations
Time Span of Data Collected
1850 to the present
Status of Data Base Operational
Users
Private consultants; Science and Education Administration; State natural-resource and geological organizations; State universities; U.S. Fish and Wildlife Service; Water Resources Division headquarters and districts
Data Availability
Available for unlimited access
Output Media
Interactive access; Magnetic tape; Batch computer printout
Storage Media Disc
Size of Data Base
269,400 logical entries; 138,857,320 bytes
Computer Residence
IBM 370/155 Reston, VA
Language SYSTEM 2000; PL/1
Abstract
The Master Water Data Index (MWDI) is a data base accessible to WRD personnel and members of the National Water Data Exchange. It identifies hydrologic sites for which water-data is available. It maintains identification information and a detailed description of each site, including latitude, State, county, hydrologic unit, site type, and identification of the operating agency. Information is also present on the types of data available, period of record, water-data parameters, frequency of measurement, and the media in which the data is available.
Documentation
Perry, R. A., and Lewis, C. J., 1978, Definitions of Components of the Master Water data index maintained by the National Water Data Exchange: U.S. Geological Survey Open-File Report 78-183, 170 p.
Date of This Information October 1979

165

Name
MASTER WATER DATA INDEX
CONGRESSIONAL DISTRICTS TABLE
Acronym C11 TABLE
Data Base Type Spatial
System That Accesses Data Base NAWDEX
Division/Office
Water Resources Division
Contact Person Owen O. Williams
Contact Telephone
(703) 860-6031 (FTS) 928-6031

Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092
Subject Coverage
File of valid Congressional districts by State
Keywords
Congressional District; State
Geographical Coverage United States
Spatial Data Type State
Source of Data in Data Base
WRD MIS Section's Congressional district file
Status of Data Base Operational
Users
NAWDEX Program Office; WRD Districts
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Punched cards
Storage Media Disc
Size of Data Base
57 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
This file is used by the National Water Data Exchange in the Master Water Data Index Edit Update System to validate Congressional district entries. The file contains the highest valid Congressional district code for each State. A record contains the FIPS state code and its respective highest Congressional district code.
Documentation
McLamb, Richard P., Tetterton, J. Trent, 1972, Program documentation for the MWDI edit/update system National Water Data Exchange: USGS Contract No. 14-08-0001-15302, 200 p.
Date of This Information October 1979

166

Name
MASTER WATER DATA INDEX LATITUDE-LONGITUDE TABLE
Acronym LAT-LONG
Data Base Type Spatial
System That Accesses Data Base NAWDEX
Division/Office
Water Resources Division
Contact Person Owen O. Williams
Contact Telephone
(703) 860-6031 (FTS) 928-6031
Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092
Subject Coverage
This file identifies, by State, the maximum and minimum latitude and longitude points
Keywords Location; Sites
Geographical Coverage United States
Spatial Data Type State
Coordinate System Latitude/Longitude
Sources of Data in Data Base
WRD.COUNTY File (WATSTORE)
Status of Data Base Operational
Users
NAWDEX Program Office; WRD districts
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Punched card
Storage Media Disc
Size of Data Base
50 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
This file identifies the maximum and minimum longitude and latitude points for each State. There is one record per State, and each contains the FIPS State code and latitude and longitude boundaries in degrees, minutes, and seconds. The file is used to validate

entries to the latitude and longitude components of the Master Water Data Index.

Documentation
McLamb, Richard P., Tetterton, J. Trent, 1977, Program documentation for the MWDI edit/update system National Water Data Exchange: USGS Contract No. 14-08-0001-15302, 200 p.

Date of This Information October 1979

167

Name
MEASUREMENTS AT LOW-FLOW, PARTIAL-RECORD STATIONS, MISCELLANEOUS SITES AND SPRINGS

Acronym LOW FLOW

Data Base Type Spatial

Division/Office
Water Resources Division

Contact Person V. Jeff May

Contact Telephone
(615) 251-5424 (FTS) 852-5424

Contact Address
U.S. Geological Survey
Water Resources Division
Room A413
Federal Building-- U.S. Courthouse
Nashville, TN 37203

Subject Coverage
River, stream, and spring discharge

Keywords
Hydrologic Data; Hydrologic Unit; Springs; Streamflow

Geographical Coverage
State of Tennessee

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Tennessee Valley Authority, Data Services Branch, Knoxville, TN 37902; USGS field monitoring equipment; USGS Water Resources Division personnel

Time Span of Data Collected
1899 to the present

Status of Data Base Operational

Users
Tennessee WRD District hydrologists

Data Availability
Available for unlimited access

Output Media
Magnetic tape; Batch computer printout

Storage Media Magnetic tape

Size of Data Base
3,000 variable-length records

Computer Residence
IBM 370/155 Reston, VA

Language PL/1

Abstract
This program is designed to store information for miscellaneous stations and springs in Tennessee. Information included for each site is downstream order number, hydrologic unit, quadrangle sheet, county, latitude and longitude, agency, State, district, purpose, drainage area, river mile, name, location, low-flow statistics, and discharge date. Stations can be retrieved by the first four parameters; also the data can be presented in several different formats.

Documentation None

Date of This Information October 1979

168

Name MIAMI URBAN STUDY FILE

Acronym SRFILE

Data Base Type Spatial

System That Accesses Data Base
URBAN STORM WATER DATA SYSTEM

Division/Office
Water Resources Division

Contact Person Joy Lorens

Contact Telephone
(601) 688-3071 (FTS) 494-3071

Contact Address
U.S. Geological Survey
Water Resources Division
Gulf Coast Hydroscience Center
Building 1100 room 314
National Space Technology Laboratories
NSTL Station, MS 39529

Subject Coverage
Urban-storm water data

Keywords
Computer Programs; Data Management; Precipitation; Storm Water

Geographical Coverage
Four precipitation and streamflow analysis sites in Broward and Dade Counties, FL
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
USGS field survey and monitoring
Time Span of Data Collected
1974 to 1978
Status of Data Base Operational
Users
U.S. Geological Survey; Researchers in urban studies
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media Magnetic tape; Disc
Size of Data Base
35,000 records; 400 bytes per record
Computer Residence
IBM John Hopkins University, Baltimore, MD
Languages FORTRAN IV
Abstract
A data management system was created for handling urban storm-water data collected from four small urban basins in south Florida. The system, composed of about 25 FORTRAN programs, was developed to input data, output tables for publication, calculate discharge and constituent loads, and interface to statistical and deterministic model application programs.
Documentation
Miller, Robert, 1979, Miami Urban Data Management System, USGS-WRI, 129 p.
Comments
Urban Storm Water Data Management System with application to South Florida Studies
Date of This Information October 1979

Name MIMBRES BASIN
Acronym MB FILE
Data Base Type Spatial
System That Accesses Data Base
OMNIANA
Division/Office
Water Resources Division
Contact Person John McLean
Contact Telephone
(505) 766-2810 (FTS) 474-2810
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 26659
Albuquerque, NM 87125
Subject Coverage
Water quality; Water levels
Keywords
Chemical Analyses; Ground Water; Hydrologic Data; Water Quality
Geographical Coverage
Mimbres Basin in New Mexico
Spatial Data Type Point
Coordinate System
Latitude/Longitude; State plane coordinates
Sources of Data in Data Base
Literature search; Water-quality laboratories; Field surveys
Time Span of Data Collected
1968 to 1976
Status of Data Base Operational
Users
State Engineer's Office; U.S. Geological Survey
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Magnetic tape; Publication
Storage Media Magnetic tape; Disc
Size of Data Base 40,000 records
Computer Residence
CDC 6600 and CYBER 176 Kirtland AFB Albuquerque, NM
Languages OMNIANA
Abstract
Contains information on water levels and water quality in the Mimbres Basin in New Mexico

Documentation
McLean, J. S., 1977, Hydrologic maps and data in the Mimbres Basin, New Mexico: U.S. Geological Survey Open-File Report 77-314, 531 p.
Date of This Information October 1979

170

Name MISCELLANEOUS DISCHARGE DATA
Acronym MISCD
Data Base Type Spatial
System That Accesses Data Base None
Division/Office
Water Resources Division
Contact Person Robert S. McLeod
Contact Telephone
(608) 262-2488 (FTS) 262-2488
Contact Address
U.S. Geological Survey
Water Resources Division
1815 University Avenue
Madison, WI 53706
Subject Coverage
Instantaneous stream-discharge measurements at sites other than gaging stations
Keywords
Hydrology; Stream Flow; Surface Water
Geographical Coverage
State of Wisconsin
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Field measurements by USGS personnel
Time Span of Data Collected
Early 1960's to the present
Status of Data Base Operational
Users
Consultants; USGS Wisconsin WRD District Office; Wisconsin Department of Natural Resources
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Publication
Storage Media Punched cards
Size of Data Base 15,000 cards
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV
Abstract
The data base consists of discharge measurements made by USGS personnel at partial-record stations and at miscellaneous sites in the State of Wisconsin. Data collected at partial-record stations may be printed in one of two table formats. The first table format is for site record information collected at low-flow partial-record stations. The second table is for site record information collected at high-flow or crest-stage partial-record stations. Data collected at miscellaneous sites may be printed in one of three table formats. Two table formats are for site record information collected along stream reaches during low-flow investigations. The third table format is for any site record information that cannot be identified as either a partial-record station information or low-flow investigation information. The data base consists of punched card records containing location information, descriptive information, and discharge-measurement data. The data are processed using a FORTRAN IV program written by personnel in the Wisconsin District Office.
Documentation None
Date of This Information October 1979

171

Name
MULTICS DATA COLLECTION PLATFORM SYSTEM FILE
Acronym MDCPSF
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Charles F. Merk
Contact Telephone
(703) 860-6871 (FTS) 928-6871

Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage
Hydrologic information relayed via satellite

Keywords
Hydrologic Data; Hydrologic Instrumentation; Satellite Communications

Geographical Coverage United States

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Real-time hydrologic data transmitted through two satellite data-collection systems are entered into the data base automatically from earth receiver-site computer systems.

Status of Data Base Under development

Users
Hydrologists from Federal, State and local government agencies, including: U.S. Army Corps of Engineers, U.S. Geological Survey, National Park Service, National Weather Service

Data Availability
Available for limited access

Output Media
Interactive access; Batch computer printout

Storage Media Disc

Size of Data Base
100 records; 1,382,000 bytes

Computer Residence
HIS MULTICS Reston, VA

Languages PL/1

Abstract
The Water Resources Division of the USGS is currently acquiring data in real time from remote sites through two satellite data-collection systems: GOES and COMSAT. The data base on the MULTICS system provides users immediate access to data that was automatically sensed and transmitted from WRD's nationwide network of hydrologic-data sites.

Documentation Under development

Date of This Information October 1979

Name NASQAN DATA BASE SYSTEM

Acronym NASQAN

Data Base Type Spatial

System That Accesses Data Base
NATIONAL STREAM QUALITY ACCOUNTING NETWORK (NASQAN)

Division/Office
Water Resources Division

Contact Person John C. Briggs

Contact Telephone
(703) 860-6834 (FTS) 928-6834

Contact Address
U.S. Geological Survey
Water Resources Division
MS 412
Reston, VA 22092

Subject Coverage
Water-quality data from NASQAN stations

Keywords
Chemical Analyses; Rivers; Streams; Water Quality; Water Temperature

Geographical Coverage
Continental United States; Alaska; Hawaii; Guam; Puerto Rico

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Data are from the Water Quality File of the U.S. Geological Survey's WATSTORE system

Time Span of Data Collected
1972 to 1978

Status of Data Base Operational

Users
U.S. Geological Survey, Water Resources Division, Branch of Water Quality hydrologists

Data Availability
Available for limited access

Output Media
Magnetic tape; Batch computer printout; Publication; Punched cards

Storage Media Disc

Size of Data Base 15,000,000 bytes

Computer Residence
IBM 370/155 Reston, VA

Language SYSTEM 2000; PL/1

Abstract
The NASQAN Data Base System contains all water-quality data collected since 1972 for 445 stations constituting the National Stream Quality Accounting Network (NASQAN). Data in the system included field measurements, common constituents, and some pesticide and radiochemical constituents.
Documentation
No published documentation
Date of This Information October 1979

173

Name
NATIONAL DIGITIZED HYDROLOGIC UNIT LINES DATA BASE
Acronym NATLBASE
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Paul Kapinos
Contact Telephone
(703) 860-6935 (FTS) 928-6935
Contact Address
U.S. Geological Survey
Water Resources Division
Office of Water Data Coordination
MS 417
Reston, VA 22092
Subject Coverage
Digitized hydrographic boundaries of major U.S. river basins
Keywords
Hydrologic Unit Boundaries; Hydrologic Unit Code; River Basin
Geographical Coverage
All fifty States; Puerto Rico; Virgin Islands; Canal Zone
Spatial Data Type
Polygon (Hydrologic Unit)
Coordinate System Latitude/Longitude
Sources of Data in Data Base
State hydrologic unit maps/Mylar bases digitized by Eastern Mapping Center, Topographic Division
Time Span of Data Collected 1972
Status of Data Base Under development
Users
Department of Energy; Environmental Protection Agency; National Weather Service; Office of Water Data Coordination; State Departments of Natural Resources
Data Availability
Available for unlimited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
48,000 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV; EASYTRIEVE
Abstract
A series of uniform, nationally consistent State hydrologic-unit maps that accurately delineate the hydrographic boundaries of major U.S. river basins has been prepared by the U.S. Geological Survey in cooperation with the U.S. Water Resources Council. These maps provide a standardized base for use by Federal and State water-resources agencies throughout the country. The delineated hydrologic unit boundaries were digitized (at a scale of 1:1,000,000) and edited as State or partial State data bases. The partial State data bases were then combined to form full State data bases. Subsequently, the States were joined (State boundaries deleted) to form the National Data Base (NATLBASE). This data base will contain only the contiguous 48 States.
Documentation None
Date of This Information October 1979

174

Name NATIONAL WATER USE DATA SYSTEM
Acronym NWUDS
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person Frederick H. Ruggles
Contact Telephone
(703) 860-6877 (FTS) 928-6877

Contact Address
U.S. Geological Survey
Water Resources
MS 440
Reston, VA 22092

Subject Coverage
Water-use information aggregated by county and hydrologic units and categorized by use

Keywords
Availability; Consumptive Use; Water Usage; Water Use

Geographical Coverage
All 50 States, Puerto Rico, Virgin Islands, Washington, DC

Spatial Data Type
Polygon; State; County

Coordinate System Hydrologic Unit

Sources of Data in Data Base
USGS District Offices and Cooperators

Time Span of Data Collected
Beginning in 1980 and continuing

Status of Data Base Under development

Users
Federal agencies; State agencies; Private corporations; Individuals; Academic community data base will have global use.

Data Availability
Available for limited access

Output Media
Interactive access; Batch computer printout; Publication

Storage Media Disc

Size of Data Base
Data base has not been loaded yet

Computer Residence
IBM 370/155 Reston, VA

Languages SYSTEM 2000

Abstract
The National Water Use Program is a cooperative Federal-State program designed to collect, store, and disseminate water-use data to complement data on availability and quality of the nation's water resources. Design of the program specifies measurement of a broad range of water-use elements that were selected to meet many of the information requests of groups involved in planning, management, and operation on national, regional, and local levels. The primary objectives are (1) to account for the water used throughout the United States; (2) to organize the data collected so that it may be retrieved and used at the national, regional, and local levels; (3) to manage the program so that the data will be uniform in quality; and (4) to provide the necessary information to be able to update and make projections of future water requirements. NWUDS consists of variable length records containing the data needed to ascertain the water used in a particular subregion or for the entire nation. The information consists of text, numeric data, and codes. Some topics covered are subareas, functional use, volume of water withdrawn or returned, accuracy of data. The data is handled by SYSTEM 2000.

Documentation None

Date of This Information October 1979

175

Name
NAWDEX WATER QUALITY PARAMETER FILE

Acronym Q W PARAMETERS

Data Base Type
Scientific and Technical

System That Accesses Data Base NAWDEX

Division/Office
Water Resources Division

Contact Person Owen O. Williams

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

Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092

Subject Coverage
File of U.S. Environmental Protection Agency water quality parameter codes and the corresponding NAWDEX parameter codes

Keywords
Chemical Analyses; Water Parameters; Water Quality
Sources of Data in Data Base
U.S. Environmental Protection Agency's Storage and Retrieval System (STORET); Master Water Data Index Definitions of Components
Status of Data Base Operational
Users NAWDEX Program Office
Data Availability
Available for unlimited access
Output Media
Interactive access; Batch computer printout; Punched cards
Storage Media Disc
Size of Data Base
1,741 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract
This file contains the Environmental Protection Agency water-quality parameter codes, their names, and the equivalent NAWDEX codes. It is used in the NAWDEX-STORET storage and retrieval system INTERFACE SYSTEM.
Documentation
CACI, Inc., 1976, Systems Design report for the U.S. Geological Survey NAWDEX/STORET interface project. Reston, VA, Contract No. 14-08-0001-15307 for the U.S. Geological Survey, 100 p. Perry, R. A., and Lewis, C. T., 1978, Definitions of Components of the Master Water Data Index maintained by the National Water Data Exchange: U.S. Geological Survey Open-File Report 78-183, 170 p.
Date of This Information October 1979

176

Name
NEBRASKA DISCHARGE MEASUREMENT NOTES FILE
Acronym NDMNF
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Donald E. Schild
Contact Telephone
(402) 471-5082 (FTS) 541-5082
Contact Address
U.S. Geological Survey
Water Resources Division
Room 406, 100 Centenial Mall North
U.S. Courthouse and Federal Building
Lincoln, NE 68508
Subject Coverage
Discharge-measurement information for Nebraska
Keywords
Hydrologic Data; Stream Velocity; Streamflow; Surface Water
Geographical Coverage
State of Nebraska
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Field survey/monitoring by the U.S. Geological Survey and Nebraska Department of Water Resources; Publications of discharge measurements
Time Span of Data Collected
1930 to 1979
Status of Data Base Operational
Users
Several Federal and State agencies
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape; Punched cards
Storage Media Magnetic tape
Size of Data Base
Variable-length records for 667 stations
Computer Residence IBM Lincoln, NE
Languages COBOL; FORTRAN IV; PL/1
Abstract
The Nebraska Discharge Measurement Notes File contains data on stream measurements. These include date, number of cross-sections, method, area, velocity, width, discharge, air temperature, water temperature, specific conductance, rating, shift, percent difference, measurer's name, and remarks.
Documentation
Nebraska WRD District files

Comments
Format revision is being considered
Date of This Information October 1979

177

Name NEBRASKA REGISTERED WELL FILE
Acronym NRWL
Data Base Type Spatial
System That Accesses Data Base
NEBRASKA DISTRICT OFFICE
Division/Office
Water Resources Division
Contact Person Donald E. Schild
Contact Telephone
(402) 471-5082 (FTS) 541-5082
Contact Address
U.S. Geological Survey
Water Resources Division
Room 406, 100 Central Mall North
U.S. Courthouse and Federal Building
Lincoln, NE 68508
Subject Coverage
Irrigation-well registration information for Nebraska
Keywords
Aquifer; Ground Water; Hydrologic Data; Well
Geographical Coverage
State of Nebraska
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Nebraska Department of Water Resources; Information reported by farmers and drillers under State law
Time Span of Data Collected
1898 to 1979
Status of Data Base Operational
Users
Several Federal and State agencies
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape; Punched cards
Storage Media Magnetic tape
Size of Data Base
63,000 records; 66 characters per record
Computer Residence IBM Lincoln, NE
Languages COBOL; FORTRAN IV; PL/1
Abstract
The Nebraska Registered Well File contains information on approximately 63,000 registered irrigation, industrial, and municipal wells in Nebraska. This information includes depth, static water level, dynamic water level, diameter, latitude, and longitude. Application programs produce data listings, plot well locations and data, provide cummulative totals of wells drilled by year and estimated acres irrigated, and make computations using stored data.
Documentation
Nebraska WRD District files
Date of This Information October 1979

178

Name NEBRASKA SANDHILLS LAKES FILES
Acronym NSLF
Data Base Type Spatial
System That Accesses Data Base
NEBRASKA DISTRICT OFFICE
Division/Office
Water Resources Division
Contact Person Donald E. Schild
Contact Telephone
(402) 471-5082 (FTS) 541-5082
Contact Address
U.S. Geological Survey
Water Resources Division
Room 406, 100 Centennial Mall North
U.S. Courthouse and Federal Building
Lincoln, NE 68508
Subject Coverage
Information on Sandhills Lakes in Nebraska
Keywords Alkalinity; Drainage; Lakes
Geographical Coverage
State of Nebraska
Spatial Data Type Point
Coordinate System
Latitude/Longitude; Section, Township, and Range
Sources of Data in Data Base
Nebraska State game, fish, and parks publications
Time Span of Data Collected 1979
Status of Data Base Operational

Users
High Plains Regional Aquifer Study researchers
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape
Storage Media Disc
Size of Data Base
200 records; 80 characters per record
Computer Residence IBM Lincoln, NE
Languages PL/1
Abstract
The Nebraska Sandhills Lakes File contains information on altitude, alkalinity, drainage type, and name.
Documentation
Nebraska WRD District files
Date of This Information October 1979

179

Name NEBRASKA TESTHOLES FILE
Acronym NTF
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Donald E. Schild
Contact Telephone
(402) 471-5082 (FTS) 541-5082
Contact Address
U.S. Geological Survey
Water Resources Division
Room 406, 100 Centennial Mall North
U.S. Courthouse and Federal Bldg.
Lincoln, NE 68508
Subject Coverage
Testhole information for Nebraska
Keywords
Aquifer; Ground Water; Hydrologic Data
Geographical Coverage Nebraska
Spatial Data Type Point
Coordinate System
Latitude/Longitude; Township and Range
Sources of Data in Data Base
Field survey/monitoring of USGS and the Conservation and Survey Division of the University of Nebraska
Time Span of Data Collected
1930 to the present
Status of Data Base Operational
Users
Several Federal and State agencies
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout
Storage Media Magnetic tape
Size of Data Base
3,261 records; 240 characters per record
Computer Residence IBM/Lincoln, NE
Languages COBOL, FORTRAN IV, PL/1
Abstract
The Nebraska Testhole File contains locations of testholes drilled in Nebraska. They are stored in the ABC card format and contain depth to bedrock for some testholes.
Documentation
Nebraska Water Resources Division District files
Comments Format is being revised.
Date of This Information October 1979

180

Name NEBRASKA WATER LEVEL FILE
Acronym NWLF
Data Base Type Spatial
System That Accesses Data Base
NEBRASKA DISTRICT OFFICE
Division/Office
Water Resources Division
Contact Person Donald E. Schild
Contact Telephone
(402) 471-5082 (FTS) 541-5082
Contact Address
U.S. Geological Survey
Water Resources Division
Room 406, 100 Centennial Mall North
U.S. Courthouse and Federal Building
Lincoln, NE 68508
Subject Coverage
Water-level information for Nebraska
Keywords
Aquifer; Ground Water; Hydrologic Data

Geographical Coverage
State of Nebraska
Spatial Data Type Point
Coordinate System
Latitude/Longitude; Township and Range
Sources of Data in Data Base
Field survey/monitoring by the U.S. Geological Survey, and several Federal and State agencies
Time Span of Data Collected
1930 to 1979
Status of Data Base Operational
Users
Several Federal and State agencies
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape; Publication; Punched cards
Storage Media Magnetic tape
Size of Data Base
120,000 records; 80 characters per record
Computer Residence IBM Lincoln, NE
Languages COBOL; FORTRAN IV; PL/1
Abstract
The Nebraska Water Level File consists of information on wells, such as altitude, depth, diameter, owner, latitude and longitude, predevelopment level, aquifer, and measuring point. In addition, data on water levels for these wells is stored. This includes readings every five days for several recorder wells. A wide variety of application programs exist to access this data base. These include hydrographs, data listing, and plots at any scale.
Documentation
Lang, S. M., and Leonard, A. R., 1967, Instructions for using the punchcard system for the storage and retrieval of ground-water data: U.S. Geological Survey Open-File Report, 93 p.
Date of This Information October 1979

Name NEBRASKA WELL SCHEDULE FILE
Acronym NWSF
Data Base Type Spatial
System That Accesses Data Base
NEBRASKA DISTRICT OFFICE
Division/Office
Water Resources Division
Contact Person Donald E. Schild
Contact Telephone
(402) 471-5082 (FTS) 541-5082
Contact Address
U.S. Geological Survey
Water Resources Division
Room 406, 100 Centennial Mall North
U.S. Courthouse and Federal Building
Lincoln, NE 68508
Subject Coverage
Well-schedule information for Nebraska
Keywords
Aquifer; Ground Water; Hydrologic Data
Geographical Coverage
State of Nebraska
Spatial Data Type Point
Coordinate System
Latitude/Longitude; Section, Township, and Range
Sources of Data in Data Base
Field survey/monitoring by the U.S. Geological Survey and several Federal and State agencies
Time Span of Data Collected
1898 to 1979
Status of Data Base Operational
Users
Several Federal and State agencies
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape
Storage Media Magnetic tape
Size of Data Base
11,940 records; 200 characters per record
Computer Residence IBM Lincoln, NE
Languages COBOL; FORTRAN IV; PL/1
Abstract
The Nebraska Well Schedule File contains information similar to

the ABC card format for information on USGS Form 9-1642. This includes data concerning use, depth, measuring point, altitude of land surface, water level, and pump type.

Documentation
Nebraska WRD District files

Date of This Information October 1979

182

Name
NEVADA TEST SITE AND VICINITY WELL INVENTORY

Acronym NTSWI

Data Base Type Spatial

System That Accesses Data Base
NUCLEAR HYDROLOGY

Division/Office
Water Resources Division

Contact Person
Richard K. Waddell, Jr.

Contact Telephone
(303) 234-2115 (FTS) 234-2115

Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 25046, MS 416
Denver Federal Center
Lakewood, CO 80225

Subject Coverage Well inventory

Keywords
Aquifer; Ground Water; Hydrologic Data

Geographical Coverage
Area described by lat 36°00'00" to 38°00'00", long 115 00'00" to 117°00'00", excluding lat 36°00'00" to 36°15'00", long 115°00'00" to 115°15'00". Southern Nevada and part of California

Spatial Data Type Point

Coordinate System
Arbitrary X, Y coordinates

Sources of Data in Data Base
WATSTORE, Lawrence Livermore Laboratory; U.S. Geological Survey hydrologists

Time Span of Data Collected
Approximately 1950 to the present

Status of Data Base Operational

Users U.S. Geological Survey hydrologists

Data Availability
Available for limited access

Output Media
Interactive access; Batch computer printout; Magnetic tape; Publication

Storage Media Disc

Size of Data Base
4,200 records; 9,400,000 bits

Computer Residence
HIS MULTICS Denver, CO

Languages PL/1

Abstract
The Nevada Test Site and Vicinity Well Inventory (NTSWI) is an inventory of approximately 4,300 wells and springs within a 44,000 square-kilometer area of southern Nevada and nearby California. It contains the following types of data: name, location, elevation, construction details, depth to water, depth to Tertiary tuffs, and depth to Paleozoic carbonate rocks. The data is stored on disc in binary form. Management programs are written in PL/1 and allow for easy updating and retrieval. Retrieval is by site name or by ranges of site names.

Documentation None

Date of This Information October 1979

183

Name
NEW ENGLAND ABC SITE INVENTORY DATABASE

Acronym NEABC SI

Data Base Type Spatial

Division/Office
Water Resources Division

Contact Person Robert F. Wakelee

Contact Telephone
(617) 223-2822 (FTS) 223-2822

Contact Address
U.S. Geological Survey
Water Resources Division
150 Causeway Street
Boston, MA 02114

Subject Coverage
Site inventory data of selected wells and borings throughout New England (except Maine)
Keywords
Aquifer; Ground Water; Hydrologic Data; Wells
Geographical Coverage
New England (excluding Maine)
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Personnel of the U.S. Geological Survey, Water Resources Division, New England district
Status of Data Base Operational
Users USGS hydrologists
Data Availability
Available for limited access
Output Media
Batch computer printout; Publication
Storage Media Punched cards
Size of Data Base
80,000 cards (25,000 sites)
Computer Residence AMD Cambridge, MA
Languages PL/1; FORTRAN
Abstract
The NEABC SI contains site-inventory data for more than 25,000 selected wells and borings throughout New England (except Maine). The format of the data is a modified version of the USGS ABC format. PL/I and FORTRAN programs are available to edit the data and produce publication tables. Work is currently in progress to convert the data for the USGS WATSTORE GWSI data base and convert the programs to access that data base.
Documentation None
Date of This Information October 1979

184

Name
NEW ENGLAND DISTRICT GROUND WATER LEVEL DATA BASE
Acronym NEGWL
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Robert F. Wakelee
Contact Telephone
(617) 223-2822 (FTS) 223-2822
Contact Address
U.S. Geological Survey
Water Resources Division
150 Causeway Street
Boston, MA 02114
Subject Coverage
Ground-water level data of ground water in New England.
Keywords
Aquifer; Ground Water; Hydrologic Data; Water Levels; Wells
Geographical Coverage
New England District
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Personnel of the U.S. Geological Survey, Water Resources Division, New England District
Time Span of Data Collected
1939 to 1978
Status of Data Base Operational
Users USGS hydrologists
Data Availability
Available for limited access
Output Media
Batch computer printout; Publication
Storage Media Punched cards
Size of Data Base
24,000 cards (500 sites)
Computer Residence
AMD Cambridge, MA
Languages PL/1; FORTRAN
Abstract
The NEGWL data base contains ground water level data for selected wells throughout all New England except Maine. The data is in the USGS, WRD ABC water-level format. Various PL/1 and FORTRAN programs are available to produce tables, plots, special reports, and statistical analyses. Work is currently in progress to convert the data to the USGS WATSTORE GWSI data base and convert the programs to access that data base.
Documentation None
Date of This Information October 1979

185

Name
NEW ENGLAND DISTRICT (WRD) LOWFLOW SUMMARY FILE
Acronym NEMSW
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Robert F. Wakelee
Contact Telephone
(617) 223-2822 (FTS) 223-2822
Contact Address
U.S. Geological Survey
Water Resources Division
New England District Office
150 Causeway Street, Suite 1001
Boston, MA 02114
Subject Coverage
Lowflow and miscellaneous discharge measurements collected at partial record and miscellaneous sites in New England
Keywords Hydrologic Data; Stream Flow
Geographical Coverage
New England (excluding Maine)
Spatial Data Type Point
Sources of Data in Data Base
Data collected by personnel of the New England District of the Water Resources Division of the U.S. Geological Survey
Time Span of Data Collected
1903 to 1978
Status of Data Base Under development
Users
U.S. Geological Survey hydrologists and technicians
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media Magnetic tape; Disc
Size of Data Base
1,000 records (sites)
Computer Residence AMD Cambridge, MA
Languages PL/1; IBM utilities
Abstract
The New England District (WRD) lowflow summary file will contain lowflow and miscellaneous discharge measurements for more than 1,000 sites throughout New England (except Maine). The format of the file is based upon a program developed by Robert L. Gold, Hydrologist, S.E. Region, for the Tennessee District and modified by New England District personnel. The available programs will build, update, and generate printed reports from an ISAM file. IBM utilities are used to off-load the file to magnetic tape.
Documentation None
Date of This Information October 1979

186

Name
NEW YORK COOPERATIVE SNOW SURVEY
Acronym SNOW
Data Base Type Spatial
System That Accesses Data Base
NY DISTRICT
Division/Office
Water Resources Division
Contact Person Ron V. Allen
Contact Telephone
(518) 472-3107 (FTS) 562-3107
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1350
Albany, NY 12201
Subject Coverage
Documentation of snow cover and its water equivalent (amounts and distribution)
Keywords
Meteorology; Snow Survey; Snowcover
Geographical Coverage
State of New York
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Collection by Hudson River-Black River Regulating District (regional commission); National Weather Service; New York State Department of of Environmental Conservation; Niagara Mohawk; U.S. Army Corps of Engineers; WRD New York District; Others
Time Span of Data Collected
1946 to the present
Status of Data Base Operational
Users
New York WRD District

Data Availability
Available for unlimited access
Output Media
Batch computer printout; Punched cards
Storage Media Punched cards
Size of Data Base
480 sites; 12,000 80-column cards
Computer Residence
Data 100 Albany, NY
Language FORTRAN
Abstract
The data base stores measurements of snow depth and water equivalent from 480 sites in New York State. The USGS New York WRD District measures 15 percent of the sites and acts as the central compiling agency for the New York Cooperative Snow Survey (SNOW). The majority of data is measured by other Federal, State, and local governmental agencies, utilities, and private individuals. Six snow surveys are scheduled at the outset of each season. The first three are conducted monthly beginning with the first week of January; the last three, biweekly, beginning in mid-March. Field data collection for each survey is completed within 3 days (Monday-Wednesday), which provides a synoptic overview of current snowcover and its areal distribution. Data for each site is segregated by measurement period. SNOW lists data by year within measurement period and generates maximum, minimum, and mean values. These statistics are used by the U.S. Geological Survey as a base to compare current conditions with normal conditions. This aids preparation of a timely summary report of current conditions, which is mailed to 300 recipients 2 days after field data collection.
Documentation None
Comments
Statistics on monthly mean, snow depth, and water content are available in computer printout.
Date of This Information October 1979

Name 1975 MINNESOTA WATER USE
Acronym WATERUSE
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Gerald D. Wilson
Contact Telephone
(612) 725-7841 (FTS) 725-7841
Contact Address
U S. Geological Survey
Water Resources Division
702 Post Office Building
St. Paul, MN 55101
Subject Coverage
Water use information for Minnesota in 1975
Keywords Water Use; Withdrawal
Geographical Coverage
State of Minnesota
Spatial Data Type Point
Coordinate System
UTM Northings and Eastings
Sources of Data in Data Base
State of Minnesota, Department of Natural Resources, Division of Waters, Eric Madsen, St. Paul, MN
Time Span of Data Collected
Calendar year 1975
Status of Data Base Operational
Users
Minnesota Department of Natural Resources; Minnesota Energy Agency; U.S. Geological Survey, Water Resources Division
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base 1,000,000 bytes
Computer Residence
CDC University of Minnesota Minneapolis, MN
Language
FORTRAN IV; SYSTEM 2000
Abstract
WATERUSE provides a rapid means for organizing and summarizing information on 1975 water use in Minnesota. It consists of text, numeric data, and codes. Some topics covered are location of use, owner, type of water source, type of use, and amount of water withdrawn.

Documentation None
Date of This Information October 1979

188

Name NORTHERN HIGH PLAINS FILE
Acronym NHP FILE
Data Base Type Spatial
System That Accesses Data Base
OMNIANA
Division/Office
Water Resources Division
Contact Person John McLean
Contact Telephone
(505) 766-2810 (FTS) 474-2810
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 26659
Albuquerque, NM 87125
Subject Coverage
Ground water; Water quality
Keywords
Chemical Analyses; Ground Water; Hydrologic Data; Water Quality
Geographical Coverage
Northeast New Mexico; Ogallala Formation
Spatial Data Type Point
Coordinate System
Latitude/Longitude; State plane coordinates
Sources of Data in Data Base
Field survey; Literature search; Water-survey laboratories
Time Span of Data Collected
1960 to 1974
Status of Data Base Operational
Users
State Engineer's Office; U.S. Geological Survey
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape
Storage Media Magnetic tape
Size of Data Base 35,000 records
Computer Residence
CDC 6600 and CYBER 176 Kirtland AFB Albuquerque, NM; Harris S125 Albuquerque, NM
Languages OMNIANA
Abstract
Collection of ground-water-quality and water-level data from northern High Plains area, New Mexico
Documentation None
Date of This Information October 1979

189

Name
OMNIANA-MISCELLANEOUS PROJECT DATA FILES
Acronym OMNIANA
Data Base Type Spatial
System That Accesses Data Base
OMNIANA
Division/Office
Water Resources Division
Contact Person Douglas R. Posson
Contact Telephone
(505) 766-6530 (FTS) 474-6530
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 26659
Albuquerque, NM 87125
Subject Coverage
Ground water; Surface water; Water quality
Keywords
Ground Water; Hydrologic Data; Statistics; Water Quality
Geographical Coverage
New Mexico and parts of western Texas
Spatial Data Type Point
Coordinate System
Latitude/Longitude; State plane coordinates; Arbitrary X, Y coordinates; Bureau of Indian Affairs X, Y quadrangle system
Sources of Data in Data Base
Project activities in New Mexico District of WRD, including literature searches, field surveys, pump tests, analytical calculations, lithologic logs, site inventory, and other earth-science data bases
Time Span of Data Collected
1850 to the present
Status of Data Base Operational
Users
State Engineer's Office; U.S. Geological Survey

Data Availability
Available for limited access
Output Media
Batch computer printout; Microform; Magnetic tape; Publication
Storage Media Magnetic tape; Disc
Size of Data Base 1,500,000 records
Computer Residence
CDC 6600 and CYBER 176 Kirtland AFB Albuquerque, NM; Harris S125 Albuquerque, NM
Languages
OMNIANA; FLECS (Structured FORTRAN); FORTRAN
Abstract
These files combine data files originated during project activities throughout New Mexico and a modular-program processing system developed to support ground-water-project activity. Data and applications cover project activities concentrating on water-quality and water-level measurements. Modules are available for data entry, sorting, retrieval, tabulation, and numerous analytical, graphical, and statistical calcuations.
Documentation
Omniana users guides, Vol. 1-5 (preliminary)
Date of This Information October 1979

190

Name PARAMETER CODE FILE
Acronym PARMCODE
Data Base Type
Scientific and Technical
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person David V. Maddy
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston VA 22092
Subject Coverage
Numeric codes assigned by EPA to physical, chemical, and biological properties of water
Keywords
Quality; Surface Water; Water; Water Quality
Geographical Coverage United States
Sources of Data in Data Base
Environmental Protection Agency's STORET system
Time Span of Data Collected
1971 to the present
Status of Data Base Operational
Users
USGS and registered WATSTORE Users
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Punched cards; Disc
Size of Data Base
860 80-character records
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
This dictionary is presently interfaced with the Water Quality Data File and the Daily Values Data File of WATSTORE to insure that all parameter codes stored are valid and that proper table headings and precision reporting are used. The file is presently under development to include computation algorithms, group codes for pesticides, anions, and cations and cross referencing to WRD's Central Laboratory Parameter Code File.
Documentation
Unpublished documentation--Volume III of WATSTORE--National Water Data Storage and Retrieval System--User's guide.
Date of This Information October 1979

191

Name
PARTIAL AND FULL-STATE DIGITIZED HYDROLOGIC UNIT LINES AND DATA BASE
Acronym PTSTBASE
Data Base Type Spatial

Systems That Access Data Base
NAWDEX; WATSTORE; GWSI
Division/Office
Water Resources Division
Contact Person Paul Kapinos
Contact Telephone
(703) 860-6935 (FTS) 928-6935
Contact Address
U.S. Geological Survey
Water Resources Division
Office of Water Data Coordination
MS 417
Reston, VA 22092
Subject Coverage
Digitized hydrographic boundaries of major U.S. river basins
Keywords
Hydrologic Unit Boundaries; Hydrologic Unit Code; River Basin
Geographical Coverage
Nationwide; Puerto Rico; Virgin Islands; Canal Zone
Spatial Data Type
Polygon (Hydrologic Unit)
Sources of Data in Data Base
State hydrologic unit maps/Mylar bases digitized by Eastern Mapping Center, Topographic Division
Time Span of Data Collected 1972
Status of Data Base Operational
Users
Department of Energy; Environmental Protection Agency; National Weather Service; Office of Water Data Coordination; various State Departments of Natural Resources
Data Availability
Available for unlimited access
Output Media Magnetic tape
Storage Media Magnetic tape
Size of Data Base
48,176 records; 80 characters per record
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV; EASYTRIEVE
Abstract
A series of uniform, nationally consistent State Hydrologic Unit Maps that accurately delineate the hydrographic boundaries of major U.S. river basins has been prepared by the U.S. Geological Survey in cooperation with the U.S. Water Resources Council. These maps provide a standardized base for use by Federal and State water resources agencies throughout the country. The delineated hydrologic unit boundaries were digitized (at a scale of 1:1,000,000) and edited as State or partial State data bases. These individual data sets were compiled as the PTSTBASE Date Base. Concurrently, a computer program HUCCODE (used as a subroutine) was developed to use the PTSTBASE to identify the Hydrologic Unit Code associated with the point location of a data site. HUCCODE and PTSTBASE are now being used by National Water Data Exchange to assign hydrologic unit codes to data sites in their MWDI File.
Documentation None
Date of This Information October 1979

192

Name PEAK FLOW FILE
Acronym PKFIL
Data Base Type Spatial
System That Accesses Data Base
National Water Data Storage and Retrieval System (WATSTORE)
Division/Office
Water Resources Division
Contact Person
George R. Dempster, Jr.
Contact Telephone
(703) 860-6872 (FTS) 928-6872
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Annual maximum discharges and gage heights
Keywords
Gaging Station; Peak Discharge; Peak Elevation; Surface Water; Time Series
Geographical Coverage
United States and outlying territories
Spatial Data Type Point

Coordinate System Latitude/Longitude
Sources of Data in Data Base
U.S. Geological Survey, Water Resources Division hydrologists and technicians; Operation of surface-water sites
Time Span of Data Collected
1970 to 1978
Status of Data Base Operational
Users
Department of Agriculture; Department of the Army; Department of Commerce; Department of the Interior; Regional commissions; State, county, and local government agencies; Utility companies
Data Availability
Available for unlimited access
Output Media
Magnetic tape; Batch computer printout; Magnetic tape; Batch computer printout; Publication; Punched cards
Storage Media Magnetic tape; Disc
Size of Data Base
412,000 records; 260 cylinders on IBM 3330 disc
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
The Peak Flow File contains the annual maximum discharge and the annual maximum gage height values obtained at surface-water sites. The file consists of fixed-length records containing site identification and name, State code, drainage area, gage datum, date of annual maximum discharge and gage height, and remarks codes for maximum discharge and gage height. All units are English units. The data is processed by WRD-developed software. The primary application program for the file is a program that computes log-Pearson Type III frequency distribution in accordance with guidelines established by the Water Resources Council.
Documentation
Lepkin, W. D., and others, 1979, National Water Data Storage and Retrieval System, Instructions for Peak Flow File: U.S. Geological Survey Open-File Report 79-1336-I, 203 p.
Comments
The data base is being redesigned and redeveloped to function more effectively and efficiently in the WATSTORE system.
Date of This Information October 1979

193

Name PECOS HISTORICAL STREAMFLOW
Acronym PHS FILE
Data Base Type Spatial
System That Accesses Data Base
OMNIANA
Division/Office
Water Resources Division
Contact Person Louis P. Denis
Contact Telephone
(505) 766-2011 (FTS) 474-2011
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 26659
Albuquerque, NM 87125
Subject Coverage
Streamflow data
Keywords
Pecos River Basin; Streamflow; Surface Water
Geographical Coverage
Pecos River basin in New Mexico
Spatial Data Type Point
Coordinate System
Latitude/Longitude; State plane coordinates
Sources of Data in Data Base
Literature search; Field survey
Time Span of Data Collected
1856 to 1960
Status of Data Base Under development
Users Pecos River Commission
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape
Storage Media Magnetic tape; Disc
Size of Data Base 120,000 records

Computer Residence
CDC 6600 and CYBER 176 Kirtland AFB Albuquerque, NM; Harris S125 Albuquerque, NM
Languages OMNIANA
Abstract
Collection of historical streamflow data from Pecos River and tributaries, from 1856 to 1960
Documentation None
Date of This Information October 1979

194

Name PRECIPITATION NETWORK
Acronym PRECIP
Data Base Type Spatial
System That Accesses Data Base
NY DISTRICT
Division/Office
Water Resources Division
Contact Person Robert Cartwright
Contact Telephone
(518) 472-3107 (FTS) 562-3107
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1350
Albany, NY 12201
Subject Coverage
Quality of precipitation
Keywords
Chemical Analyses; Hydrologic Data; Precipitation; Water Quality
Geographical Coverage
State of New York
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Monthly composite sample, collected by local observers; analyzed by the National Water Quality Laboratory--Atlanta
Time Span of Data Collected
1965 to the present
Status of Data Base Operational
Users
New York State Department of Environmental Conservation; New York WRD District
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Punched cards; Disc
Size of Data Base
12 stations; 2,000 analyses; 400 characters per analysis
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN
Abstract
Thirteen stations are located across New York State where local observers collect monthly composite precipitation samples. The stations consist of a funnel that drains into a teflon bottle kept in a heated and insulated shelter. USGS personnel measure specific conductance and pH, determine acidity, and then send the sample to the National Water Quality Laboratory--Atlanta, where 12 other parameters are determined. Nine of these stations have been in operation since 1965, and the other four have been in operation since the mid to late 1970's. The analyses are combined with National Weather Service data on inches of precipitation for the sampling period and published in annual basic-data reports.
Documentation
USGS New York Open-File annual reports from 1965 to the present
Date of This Information October 1979

195

Name PUBLIC WATER SUPPLY
Acronym PWS
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Melinda M. Lanza
Contact Telephone
(518) 472-3107 (FTS) 562-3107
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1350
Albany, NY 12022
Subject Coverage
Quality of water of public water supplies for New York State.

Treatments of same water and effect of treatments.

Keywords
Chemical Analyses; Drinking Water; Public Supply; Water Quality

Geographical Coverage
State of New York

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Water samples collected by New York District. Analyzed by National Water Quality Laboratory-Atlanta

Time Span of Data Collected
1970 to 1975

Status of Data Base Operational

Users
New York State Department of Health; WRD, New York District

Data Availability
Available for unlimited access

Output Media Batch computer printout

Storage Media
Magnetic tape; Punched cards

Size of Data Base
50,000 cards; 2,800 records

Computer Residence
IBM 370/155 Reston, VA

Languages FORTRAN; COBOL

Abstract
The data base contains fixed-length records of individual samples. The data includes station identifiers, date of collection, chemicals analyzed, and values found. These are then used for tabling and for statistical analysis.

Documentation
Quality of Public Water Supplies of New York--U.S. Geological Survey Open-File Reports 1974, 1975, 1976, 1977

Comments
This data also resides in the WATSTORE Water Quality file in Reston, VA.

Date of This Information October 1979

196

Name PUMPAGE FROM POWER (ANNUAL; PGE)

Acronym PUMP

Data Base Type Spatial

Division/Office
Water Resources Division

Contact Person Hugh Mitten

Contact Telephone
(916) 484-4415 (FTS) 468-4415

Contact Address
U.S. Geological Survey
Water Resources Division
2800 Cottage Way
Sacramento, CA 95825

Subject Coverage
Kilowatt-hour use; Agricultural wells

Keywords
Ground Water; Power Use; Pumpage; Wells

Geographical Coverage
Northern California

Spatial Data Type Point

Coordinate System
State plane coordinates

Sources of Data in Data Base
Pacific Gas and Electric Co.
Mr. Richard Picchi
77 Beale Street
San Francisco, CA 94106

Time Span of Data Collected
1974 to 1976

Status of Data Base Operational

Users WRD California District

Data Availability
Available for limited access

Output Media Batch computer printout

Storage Media Disc

Size of Data Base
100,000 records per year

Computer Residence
IBM 370/155 Reston, VA

Languages PL/1; FORTRAN IV

Abstract
The data base consists of separate disc packs, one for each calendar year. Only agricultural accounts are included. Among the items stored for each account are: account number, division and district codes, location coordinates, pump horsepower, and metered monthly kilowatt-hour use for each of the 12 months. The records are fixed in length. The source agency provides data on a monthly basis, and the annual file is incremented on a monthly basis.

No comprehensive retrieval package exists. A basic retrieval package exists for which a user may retrieve annual records for a particular division and district. The data are used to generate tables of pumpage. The pumpage values can then be introduced into various ground-water modeling programs.

Documentation None

Comments

The data base was designed specifically for use by USGS WRD personnel of the California District. Others who wish to access Pacific Gas and Electric Company's data should contact that company directly.

Date of This Information October 1979

197

Name RATING TABLE FILE

Acronym RAT FILE

Data Base Type Spatial

System That Accesses Data Base

National Water Data Storage and Retrieval System (WATSTORE)

Division/Office

Water Resources Division

Contact Person Neil G. Stuthmann

Contact Telephone

(703) 860-6871 (FTS) 928-6871

Contact Address

U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage

Stage-discharge rating

Keywords

Gaging Stations; Ratings; Streamflow

Geographical Coverage United States

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base

State surveys; U.S. Army Corps of Engineers; USGS WRD hydrologists and technicians

Time Span of Data Collected

1973 to the present

Status of Data Base Operational

Users

U.S. Geological Survey hydrologists

Data Availability

Available for limited access

Output Media

Batch computer printout

Storage Media Magnetic tape; Disc

Size of Data Base

8,000 records; 264 bytes per record

Computer Residence

IBM 370/155 Reston, VA

Languages PL/1

Abstract

The Rating Table File contains data needed in the computation of streamflow records. The file contains one record per station and contains stage vs. discharge values used in the processing of digital recorder records and storing values in the Daily Values File.

Documentation

Hutchison, N. E., compiler, 1975, WATSTORE--National Water Data Storage and Retrieval System of the U.S. Geological Survey--User's Guide: U.S. Geological Survey Open-File Report 75-426, 532 p.

Date of This Information October 1979

198

Name RIVER MILES FOR ILLINOIS STREAMS

Acronym RIVER MILE FILE

Data Base Type Spatial

Division/Office

Water Resources Division

Contact Person Richard W. Healy

Contact Telephone

(217) 398-5353 (FTS) 958-5357

Contact Address

U.S. Geological Survey
Water Resources Division
P.O. Box 1026
Champaign, IL 61820

Subject Coverage

River mileages; Drainage areas

Keywords

Navigation; River Miles; Water Quality; Water Resources

Geographical Coverage

State of Illinois

Spatial Data Type
Point (indexed by river mile)
Sources of Data in Data Base
U.S. Army Corps of Engineers publications and maps; U.S. Geological Survey hydrologists and technicians
Time Span of Data Collected
1977 to 1979
Status of Data Base Under development
Users
U.S. Army Corps of Engineers; U.S. Geological Survey, Water Resources Division
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Punched cards
Storage Media Punched cards
Size of Data Base
20,000 records; 40 characters per record
Computer Residence
IBM 370/155 Reston, VA; CDC Champaign, IL
Languages FORTRAN
Abstract
Illinois streams with drainage areas of at least ten square miles at the mouth have river mileages determined for all points of interest. This information is stored in punched-card format, along with a description of the site, topographic quadrangle, USGS gaging-station number, and a key to the Drainage Area File.
Documentation None
Date of This Information October 1979

199

Name SAN JUAN DEVELOPMENT
Acronym SJA
Data Base Type Spatial
System That Accesses Data Base
OMNIANA
Division/Office
Water Resources Division
Contact Person Peter F. Frenzel
Contact Telephone
(505) 766-2810 (FTS) 474-2810
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 26659
Albuquerque, NM 87125
Subject Coverage
Irrigation; Coal; Uranium development
Keywords
Coal; Gas; Ground Water; Irrigation; New Mexico; Oil; Uranium
Geographical Coverage
San Juan basin, including San Juan County and parts of McKinley, Valencia, Bernalillo, Sandoval, and Rio Arriba Counties
Spatial Data Type Point
Coordinate System
Latitude/Longitude; State plane coordinates; Arbitrary X, Y coordinates
Sources of Data in Data Base
Literature search; Water-quality laboratories; Field surveys
Time Span of Data Collected
1974 to 1978
Status of Data Base Under development
Users
Bureau of Mines; Energy and private sectors; New Mexico State Engineer; U.S. Geological Survey
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape
Storage Media Magnetic tape; Disc
Size of Data Base 75,000 records
Computer Residence
CDC 6600 and CYBER 176 Kirtland AFB Albuquerque, NM; Harris S125 Albuquerque, NM
Languages OMNIANA; FORTRAN
Abstract
Results of historical and continuing ground-water literature search in northwest New Mexico
Documentation
Wright, A. F., 1979, Bibliography of geology and hydrology, San Juan Basin, New Mexico, and portions of Colorado, Arizona, and Utah: U.S.

Geological Survey Bulletin 1481, approximately 200 p.

Comments
Data base to be released to public during 1979.

Date of This Information October 1979

200

Name
S.W. FLORIDA RAINFALL DATA FOR STREAM FLOW SIMULATION

Acronym RAIN FILE

Data Base Type Spatial

System That Accesses Data Base
Water Resources Division

Contact Person Kathleen M. Hammett

Contact Telephone
(813) 228-2125 (FTS) 826-2830

Contact Address
U.S. Geological Survey
Water Resources Division
4710 Eisenhower Blvd. Suite B-5
Tampa, FL 33614

Subject Coverage Rainfall data

Keywords
Hydrologic Data; Rainfall; Runoff

Geographical Coverage
S.W. Florida WRD Subdistrict

Spatial Data Type Point

Coordinate System
Arbitrary X, Y coordinates

Source of Data in Data Base
National Weather Service

Time Span of Data Collected
1948 to 1978

Status of Data Base Operational

Users S.W. Florida WRD Subdistrict

Data Availability Proprietary

Output Media Batch computer printout

Storage Media Disc

Size of Data Base
9,000 records; 80 characters per record

Computer Residence
IBM 370/155 Reston, VA

Languages FORTRAN; JCL

Abstract
Rainfall records for southwest Florida used in watershed modeling effort

Documentation None

Date of This Information October 1979

201

Name STATION FUNDING SYSTEM

Acronym SFS

Data Base Type Bibliographic

Division/Office
Water Resources Division

Contact Person Joanne V. Funt

Contact Telephone
(717) 782-3781 (FTS) 590-3781

Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1107
Harrisburg, PA 17108

Subject Coverage
Cooperator funding of USGS gaging stations in Pennsylvania

Keywords
Ground Water; Hydrologic Data; Surface Water; Water Quality

Geographical Coverage
State of Pennsylvania

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
NAWDEX Master Water Data Index

Time Span of Data Collected
1978 to 1979

Status of Data Base Operational

Users
U.S. Geological Survey, Pennsylvania WRD District Office

Data Availability
Available to Water Resources Division personnel only

Output Media
Magnetic tape cassette; Batch computer printout

Storage Media
Magnetic tape cassette

Size of Data Base 100,000 bytes

Computer Residence
Tektronix 4051 Graphic system
Harrisburg, PA

Languages BASIC; SYSTEM 2000

Abstract
A set of BASIC programs are available to produce reports and provide automatically available data for Master Water Data Index (MWDI) updating. The data and programs are stored on tape and must be processed on a Tektronix

series 4000 graphics system having two tape drives, 16K of main storage, and TSO capability. TSO provides the link whereby our most basic data was obtained from the MWDI, as well as the means for providing the Reston system with the locally maintained information. The programs serve the following functions: (1) Reporting station funding amount by office, basin, station, customer, and service provided. Additional information includes name, drainage area, and beginning and ending years; (2) updating station record from one tape to another either in order or individually selected; (3) sorting records from one tape to another when changes in office or number necessitate; (4) copying necessary after updating or sorting; (5) reformatting for transmission via TSO to Reston. Rounding out the system are PL/1, SYSTEM 2000 Natural Language, and IRS routines to interface the local data with the MWDI and for 132-character-line width reports.

Documentation None

Comments

The Reston-based operations need revision now that the local system is operational.

Date of This Information October 1979

202

Name STATION HEADER FILE

Acronym WRD.STAHDR

Data Base Type Spatial

System That Accesses Data Base

WATSTORE

Division/Office

Water Resources Division

Contact Person Charles F. Merk

Contact Telephone

(703) 860-6871 (FTS) 928-6871

Contact Address

U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage

Individual water-measurement site information

Keywords

Agency Code; Latitude/Longitude; Station Identification Number; Station Name; USGS Hydrologic Data Collection Sites

Geographical Coverage

United States, including outlying areas, Mexico, and Canada

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base

U.S. Geological Survey, Water Resource Division hydrologists and technicians

Time Span of Data Collected

1972 to the present

Status of Data Base Operational

Users Registered WATSTORE members

Data Availability

Available for limited access

Output Media

Magnetic tape; Batch computer printout; Punched cards

Storage Media Disc

Size of Data Base

268,000 records; 152 characters per record

Computer Residence

IBM 370/155 Reston, VA

Languages PL/1

Abstract

The purpose of the Station Header File is to provide a single source of station identification information for all WATSTORE data processing programs. A Station Header Record comprised of 16 fixed items of site identification information is available in the Station Header File for each data collection site for which data is stored in the WATSTORE data files. The Station Header record contains identifiers that locate and describe the station, such as latitude/longitude, State code, agency code, and station name.

Documentation

Hutchison, N. E., compiler, 1975, WATSTORE--National Water Data Storage and Retrieval System at

the U.S. Geological Survey--User's Guide: U.S. Geological Survey Open-File Report 75-589, 173 p.
Date of This Information October 1979

203

Name STATION INFORMATION FILE
Acronym SI FILE
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person George R. Kish
Contact Telephone
(609) 989-2162 (FTS) 483-2162
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1238
Trenton, NJ 08607
Subject Coverage
Surface water quality and streamflow information
Keywords
Chemical Analyses; Nutrients; Sediment; Streamflow; Water Quality
Geographical Coverage
State of New Jersey
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Field survey and monitoring
Time Span of Data Collected
1897 to 1977
Status of Data Base Under development
Users
Delaware River Basin Commission; Environmental groups; New Jersey Department of Environmental Protection; Private consultants; U.S. Army Corps of Engineers
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base 1,307 records
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract Not prepared as yet
Documentation None
Date of This Information October 1979

204

Name STATION MASTER INDEX
Acronym MASTER
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person V. Jeff May
Contact Telephone
(615) 254-5424 (FTS) 852-5424
Contact Address
U.S. Geological Survey
Water Resources Division
Room A413
Federal Building--U.S. Courthouse
Nashville, TN 37203
Subject Coverage
Downstream numbers and station type
Keywords Hydrologic Sites
Geographical Coverage
State of Tennessee
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Tennessee Valley Authority, Data Services Branch, Knoxville, TN, 37902; USGS Water Resources Division personnel
Time Span of Data Collected
1899 to the present
Status of Data Base Operational
Users
Tennessee WRD District hydrologists
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Magnetic tape
Size of Data Base 40,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
This program is designed to store information on stations within Tennessee that receive a down-stream order number. Station information includes assigned station identification number (in ascending order proceeding down stream), station name, type, river miles from river mouth, drainage area, operating agency, and remarks. Only one type of retrieval format is available.
Documentation None
Date of This Information October 1979

205

Name
STREAM DISCHARGE MEASUREMENT FILE
Acronym RATFILE
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person R. Michael Hathaway
Contact Telephone
(614) 469-6729 (FTS) 943-6729
Contact Address
U.S. Geological Survey
Water Resources Division
Ohio District Office
975 W. Third Avenue
Columbus, OH 43212
Subject Coverage
Water resources (Discharge)
Keywords
Hydrologic Data; Stream Flow; Stream Velocity; Surface Water
Geographical Coverage State of Ohio
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Field measurements by district technicians and hydrologists
Time Span of Data Collected
1900 to the present
Status of Data Base Operational
User
U.S. Geological Survey hydrologists
Data Availability
Available for limited access
Output Media
Magnetic tape; Batch computer printout; Punched cards
Storage Media
Magnetic tape; Disc; Text
Size of Data Base
65,000 records; 80 characters per record
Computer Residence AMD Columbus Ohio
Languages PL/1; FORTRAN
Abstract
The Stream Discharge Measurement File contains fixed length records of all field measurements of stream discharge made by Ohio District personnel. This file is used to develop rating tables and plot rating curves of the stage-discharge relation.
Documentation None
Date of This Information October 1979

206

Name
STREAMFLOW BASIN CHARACTERISTICS FILE
Acronym SBC FILE
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person George R. Dempster
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Surface water streamflow statistics
Keywords River Basins; Streamflow
Geographical Coverage
Surface water nationwide
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Nationwide surface-water field analysis made by field offices
Time Span of Data Collected
1970 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Water Resources Division hydrologists
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape; Punched cards
Storage Media Disc
Size of Data Base
12,846 records; 578 bytes per record
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1; FORTRAN IV
Abstract
This file contains a maximum of 200 streamflow and drainage basin

characteristics for about 13,000 stream-gaging sites. The file was created by the Surface Water Branch, using data obtained for the Surface Water Data Evaluation Study of 1970. The ADP unit at the USGS National Center manages the file including file creation, file maintenance, and the addition of new characteristics to the file. The districts are responsible for the reliability and updating of the file. Most revisions will result from the redetermination of stream-flow characteristics as long records become available.

Documentation

Hutchison, N. E., compiler, 1975, WATSTORE--National Water Data Storage and Retrieval System of the U.S. Geological Survey--User's guide: U.S. Geological Survey Open-File Report 75-426, Volume 4, Chapter II

Comments

This base was designed and intended basically for in-house use.

Date of This Information October 1979

207

Name SURFACE WATER INDEX FILE

Acronym SWINDEX

Data Base Type Spatial

Division/Office

Water Resources Division

Contact Person James D. Simmons

Contact Telephone

(904) 386-1118; (FTS) 946-4251

Contact Address

U.S. Geological Survey
Water Resources Division
325 John Knox Road Building
F Suite 150
Tallahassee, FL 32303

Subject Coverage

Surface-water site index--includes drainage areas

Keywords

Data Collection; Drainage Areas; River Mileage; Surface Water

Geographical Coverage

State of Florida

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base

USGS hydrologic technicians

Time Span of Data Collected

1922 to the present

Status of Data Base Under development

Users

Florida Department of Environmental Regulation; Florida Water Management Districts; WRD offices

Data Availability

Available for unlimited access

Output Media

Batch computer printout; Magnetic tape; Punched cards

Storage Media Disc

Size of Data Base

14,000 records; 80 characters per record

Computer Residence

IBM 370/155 Reston, VA

Languages FORTRAN IV

Abstract

The file contains data on instrumentation and details on historical data collected at surface-water sites in Florida. It also includes drainage-area, river-mileage, and stream-magnitude information. The file contains site-location information, which includes county, public land-survey location, and water-management district.

Documentation None

Date of This Information October 1979

208

Name TAMPA BAY FIELD DATA

Acronym TBFD

Data Base Type Spatial

Division/Office

Water Resources Division

Contact Person Carl R. Goodwin

Contact Telephone

(813) 228-2830 (FTS) 826-2830

Contact Address

U.S. Geological Survey
Water Resources Division
4710 Eisenhower Blvd. Suite B-5
Tampa, FL 33614

Subject Coverage
Field: Observation of velocity, stage, and bathimetric data
Keywords
Bathimetry; Stage; Velocity
Geographical Coverage
Tampa Bay, Tampa, Fla.
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Field Measurements
Time Span of Data Collected
1971 to the present
Status of Data Base Operational
Users
Southwest Florida WRD Subdistrict
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base 150,000 records
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN; JCL
Abstract
Data sets contain observed data used in mathematical simulation of Tampa Bay.
Documentation
Goodwin, Carl R., Tides in Tampa Bay, Florida, June 1971 to Dec. 1973, 1976: U.S. Geological Survey Open-File Report FL 75004
Date of This Information October 1979

209

Name TIME OF TRAVEL
Acronym TOT
Data Base Type Spatial
System That Accesses Data Base
NEW YORK DISTRICT
Division/Office
Water Resources Division
Contact Person David Troutman
Contact Telephone
(518) 472-3107 (FTS) 562-3107
Contact Address
U.S. Geological Survey
Water Resources Division
P.O. Box 1350
Albany, NY 12201
Subject Coverage
Time-of-travel of water in streams
Keywords Dispersion; Dye; Streamflow
Geographical Coverage
State of New York
Spatial Data Type Spatial
Sources of Data in Data Base
New York WRD District field survey/monitoring
Time Span of Data Collected
1960 to the present
Status of Data Base Operational
Users
New York State Department of Environmental Conservation; New York WRD District
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Punched cards
Size of Data Base 6,000 cards
Computer Residence
Data 100 Albany, NY
Language FORTRAN
Abstract
The use of fluorescent dyes and tracing techniques provides a means for measuring the time-of-travel and dispersion characteristics of steady and gradually varied flow in streams. Measurements of the dispersion and concentration of dyes give insight to the behavior of contaminants that may be introduced to a stream.
Documentation
Kilpatrick, F. A., Martens, L. A., and Wilson, J. F., Jr., 1970, Measurement of time-of-travel and dispersion of dye tracing, in USGS Techniques of Water-Resources Investigations, Book 3, Chapter A9, 25 p.; Wilson, J. F., Jr., 1967, Fluorometric procedures for dye tracing, in USGS Techniques of Water-Resources Investigations, Book 3, Chap. A12, 31 p.; Shindel, H. L., Wagner, L. A., Hamecher, P. H., 1977, Time-of-Travel and dye-dispersion studies of selected streams and lakes in the Oswego River Basin, N.Y., 1967-75: New York State Department of Environmental Conservation, Rept. Inv RI-17, 153 p.
Date of This Information October 1979

210

Name TIME OF TRAVEL FILE
Acronym TT FILE
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person George R. Dempster
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Streamflow; Time-of-travel data
Keywords
Basin; Streamflow; Surface Water; Time of Travel; Travel Time
Geographical Coverage Nationwide
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Random surface-water studies made throughout the United States by field offices.
Time Span of Data Collected
June 1963 to December 1975
Status of Data Base Operational
Users
U.S. Geological Survey, Water Resources Division hydrologists
Data Availability Not available
Output Media
Batch computer printout; Magnetic tape
Storage Media Disc; Punched cards
Size of Data Base 2,520,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages FORTRAN IV
Abstract
The Time Of Travel File was created to perform regression analysis to relate velocity and dispersion characteristics to stream-channel characteristics. Data in the file was obtained from districts that have collected it. The data is in two direct-access files, of which file 1 contains dye-injection information with an associated variable "N" that is assigned when the data is loaded to the file. File 2 contains the variable "N" along with all additional sampling information. File 1 was created to contain 800 records, of which 684 have been loaded. File 2 was created to contain 3,000 records, of which 1,303 have been loaded.
Documentation
WATSTORE Vol. 4, Chapter IV; Boning, C. W., Water-Resources Investigation 34-73., Index of Time-of-Travel Studies of the U.S. Geological Survey
Comments
This file was set up for in-house use only and is not intended to be released outside the USGS.
Date of This Information October 1979

211

Name
TRAVELERS RESEARCH CORP. TAPE OF SMALL RURAL WATERSHED DATA
Acronym TRAVELERS
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Donald J. Dolnack
Contact Telephone
(703) 860-7131 (FTS) 928-7131
Contact Address
U.S. Geological Survey
Water Resources Division
MS 485
Reston, VA 22092
Subject Coverage
Small rural watersheds
Keywords
Hydrologic Data; Surface Water; Watersheds
Geographical Coverage United States
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Travelers Research Corporation
Status of Data Base Operational
Users U.S. Geological Survey
Data Availability
Available for unlimited access

Output Media
Magnetic tape; Batch computer printout
Storage Media
Magnetic tape
Size of Data Base
678 records; 1,224 bytes per record
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract
The tape is a summary of 678 records of data on small rural watersheds furnished by the Travelers Research Corporation.
Documentation None
Date of This Information October 1979

212

Name UNIT VALUES FILE
Acronym WRD.UNIT
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person George R. Dempster
Contact Telephone
(703) 860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
Water-quality data collected at a frequency greater than daily
Keywords
Flood Hydrograph; Precipitation; Streamflow
Geographical Coverage United States
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Continuous surface-water, ground-water, and water-quality monitoring done nationwide
Time Span of Data Collected
Varied depending on station; Parm Code, use (mid 1960's to present)
Status of Data Base Operational
Users
USGS hydrologists; WATSTORE and NAWDEX users
Data Availability
Available for limited access
Output Media
Batch computer printout; Magnetic tape; Punched cards
Storage Media Magnetic tape; Disc
Size of Data Base
170,000 records; RECFM=VB; BLKSIZE=12932; LRECL=11604
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
The Unit Values File, developed in 1976 by the USGS (Automatic Data Section) and CACI Inc., was developed primarily to store all the unit-values data that was previously stored in the "short-" and "longterm" Rainfall-Runoff files. Since then, it has been enhanced to make it advantageous to store data for all EPA Parameter Codes recorded at a recording interval greater than daily (maximum readings per day = 2,880) that is required for special studies or analysis. The sources of this data may be either Surface Water, Ground Water, Quality of Water, or Meteorological and be input either by digital recorder, satellite relay, or punched-card reader. Each daily record is composed of all data stored for a particular record key, with each parameter code helping to make up the key. The records are of variable length (depending on RPD) and are blocked to facilitate maximum storage and efficiency. The file is further described in WATSTORE, Vol. 5, Chapter III.
Documentation
WATSTORE, Vol. 5, Chap. III
Comments
Information stored in this data base has unlimited application potential.
Date of This Information October 1979

213

Name WATER DATA SOURCES DIRECTORY
Acronym WDSD
Data Base Type
Organization information
System That Accesses Data Base
NAWDEX
Division/Office
Water Resources Division
Contact Person Owen O. Williams
Contact Telephone
(703) 860-6031 (FTS) 928-6031
Contact Address
U.S. Geological Survey
Water Resources Division
MS 421
Reston, VA 22092
Subject Coverage
Directory of organizations collecting water or water-related data
Keywords
Ground Water; Hydrologic Data; Surface Water; Quality Water
Geographical Coverage
United States; Canada; Mexico
Sources of Data in Data Base
Original data base created from a WRD Office of Water Data Coordination file; Current sources from water and water-related agencies
Time Span of Data Collected
1976 to the present
Status of Data Base Operational
Users
Private consultants; Science and Education Administration; State natural-resource and geological organizations; State universities; U.S. Fish and Wildlife Service; Water Resources Division headquarters and district personnel
Data Availability
Available for unlimited access
Output Media Interactive access
Storage Media Disc
Size of Data Base 616 logical entries
Computer Residence
IBM 370/155 Reston, VA
Language PL/1; SYSTEM 2000
Abstract
The Water Data Sources Directory (WDSD) is one of the major data bases accessible to WRD personnel and members of the National Water Data Exchange. It identifies organizations that collect water data or water-related data, indicates whether or not the organization is a NAWDEX member, identifies the type of organization and the type of data collected, and maintains information on the geographic area covered by the organization.
Documentation
Knecht, W. A., and Edwards, M. D., 1978, Definitions of components of the Water Data Sources Directory maintained by the National Water Data Exchange: U.S. Geological Survey Open-File Report 77-775, 99 p.
Date of This Information October 1979

214

Name WATER-LEVEL SUBFILE
Acronym WL FILE
Data Base Type Spatial
System That Accesses Data Base
THE WELL DATA BASE
Division/Office
Water Resources Division
Contact Person George W. Hawkins
Contact Telephone
(516) 938-8830
(FTS) (516) 938-8830
Contact Address
U.S. Geological Survey
Water Resources Division
5 Aerial Way
Syosset, NY 11791
Subject Coverage
Well water-level data
Keywords
Aquifer; Ground Water; Hydrologic Data; Storage
Geographical Coverage
Long Island, New York
Spatial Data Type Point
Coordinate System
Latitude/Longitude
Sources of Data in Data Base
USGS and Long Island cooperators
Time Span of Data Collected
1900 to the present
Status of Data Base Operational

Users USGS hydrologists
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Publication
Storage Media Magnetic tape
Size of Data Base 2,500,000 bytes
Computer Residence
Data General Syosset, NY
Languages FORTRAN IV; ASSEMBLY
Abstract
This is a file of ground-water-level measurements.
Documentation
Hawkins, George W., Introduction to the Syosset well data base. Hawkins, George W., The well data base subfiles. Hawkins, George W., Programmer's reference manual for the water-level subfile.
Date of This Information October 1979

215

Name WATER QUALITY DATA FILE
Acronym QWFILE
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person David V. Maddy
Contact Telephone
860-6871 (FTS) 928-6871
Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092
Subject Coverage
The physical, chemical (organic and inorganic), and biologic quality of streams, lakes, reservoirs, estuaries, springs, and wells in the United States
Keywords
Biology; Chemistry; Ground Water; Hydrology; Statistics; Surface Water; Water Quality
Geographical Coverage Nationwide
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
The water-quality data collected by the USGS Water Resources Division's district offices and project offices throughout the United States
Time Span of Data Collected
1920 to the present
Status of Data Base Operational
Users
U.S. Geological Survey, Water Resources Division
Data Availability
Available for unlimited access;
Output Media
Batch computer printout; Magnetic tape; Publication; Punched cards
Storage Media Magnetic tape; Disc
Size of Data Base
1,500,000 analyses (records); 600,000,000 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages PL/1
Abstract
The Water Quality Data File is the primary repository for all water-quality data collected by WRD. Each record is variable length and consists of a water sample or analysis. The current and immediately preceding wateryears of data are maintained on-line in an ISAM file, while the historical data is maintained off-line on magnetic tapes. The file is interfaced with WRD's Station Header File such that data can not be stored without a corresponding record existing in the Station Header File. The software for the storage and retrieval of the data is programmed in PL/1. A large number of application programs are available for producing tables, plots, graphs, and statistics.
Documentation
Unpublished documentation Volume III of WATSTORE--National Water Data Storage and Retrieval System of the U.S. Geological Survey--User's Guide
Date of This Information October 1979

216

Name
WATER QUALITY OF GROUND WATER ADJOINED TO HIGHWAYS IN MASSACHUSETTS
Acronym HIWAYQW
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Robert F. Wakelee
Contact Telephone
(617) 223-2822 (FTS) 223-2822
Contact Address
U.S. Geological Survey
Water Resources Division
New England District Office
150 Causeway Street
Boston, MA 02114
Subject Coverage
Water quality and water levels of ground water at selected test sites adjoined to highways
Keywords
Chemical Analyses; Deicing Chemicals; Ground Water; Water Quality
Geographical Coverage
State of Massachusetts
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Samples collected and analyzed by the Massachusetts Department of Public works in cooperation with the U.S. Geological Survey
Time Span of Data Collected
1964 to 1977
Status of Data Base Operational
Users
U.S. Geological Survey; Massachusetts Department of Public Works
Data Availability
Available for limited access
Output Media Batch computer printout
Storage Media
Magnetic tape; Punched cards
Size of Data Base
14,000 records (card images)
Computer Residence
AMD Cambridge, MA
Languages PL/1

Abstract
The HIWAYQW file contains water-quality (chloride and specific conductance) analyses and water-level data of ground water at seven selected test sites adjoined to highways in Massachusetts. The data was collected as part of a cooperative study by the U.S. Geological Survey and the Massachusetts Department of Public Works on the effects of highway deicing chemicals on surface and ground waters. The PL/1 program is available to access the data and produces tables, line printer plots, and simple statistics in formats designed for use in the cooperative study.
Documentation None
Date of This Information October 1979

217

Name
WATER RESOURCES INVESTIGATIONS--OKLAHOMA
Acronym WRIO
Data Base Type Bibliographic
Division/Office
Water Resources Division
Contact Person James H. Irwin
Contact Telephone
(405) 231-4256 (FTS) 736-4256
Contact Address
U.S. Geological Survey
Water Resources Division
Room 612, 201 N.W. 3rd Street
Oklahoma City, OK 73102
Subject Coverage
Water-resources information
Keywords
Chemical Analyses; Ground Water; Precipitation; Quality Water; Surface Water; Water Temperature
Geographical Coverage
State of Oklahoma
Spatial Data Type Point
Sources of Data in Data Base
U.S. Geological Survey, Oklahoma WRD District
Time Span of Data Collected
1899 to the present

Status of Data Base Operational
Users
U.S. Geological Survey, Oklahoma WRD District
Data Availability
Available for unlimited access
Output Media Batch computer printout
Storage Media Disc
Size of Data Base 1,010 records
Computer Residence
IBM 370/155 University of Oklahoma, Norman, OK
Languages FORTRAN IV
Abstract
This data base is a summary of the 1979 program of the Oklahoma WRD District. It contains brief descriptions of all active projects and the current status of each. A list of all published reports related to the water resources of Oklahoma is given. It contains tables listing all streamflow-gaging stations, water-quality stations, reservoir stations, ground-water sites, and precipitation sites that the Geological Survey operated or data published through cooperation with other Federal, State, and local agencies. Included are discontinued surface-water and water-quality stations for which the Geological Survey has published records. Table 1 gives an alphabetical listing of all current and historical gaging stations in the State. Table 2 lists these stations by station number in downstream order. Tables 3-25 list the stations by cooperator, and Tables 26-41 list the stations according to type of data collected. A summary of the number of stations funded by each cooperator is given in Table 42. A description of the ground-water wells for which continuous or monthly water levels are measured is given in Table 43. Maps show the location of each type of station, and the location of selected ground-water wells. Included are indices of flood-prone-area maps and the two-degree sheets in Oklahoma for which hydrologic reconnaissance studies have been made.
Documentation
Water Resources Investigations, 1979, WRIO-Water Resources Investigations data bank of the U.S. Geological Survey (WRD), Oklahoma District
Date of This Information October 1979

218

Name
WATER USE BY SELECTED MUNICIPALITIES IN FLORIDA
Acronym WUSMIF
Data Base Type Spatial
Division/Office
Water Resources Division
Contact Person Henry G. Healy
Contact Telephone
(904) 386-1110 Ext 22
(FTS) 946-4252
Contact Address
U.S. Geological Survey
Water Resources Division
325 John Knox Road, Suite 240-F
Tallahassee, FL 32303
Subject Coverage
Water-use data; Sewage data; Water and sewage treatment
Keywords
Ground Water; Sewage Treatment; Surface Water; Water Treatment; Water Utilization
Geographical Coverage
Florida statewide
Spatial Data Type Point
Coordinate System
Arbitrary X,Y coordinates
Sources of Data in Data Base
Periodic field surveys of public water supplies by personnel of the U.S. Geological Survey and State agencies.
Time Span of Data Collected
1970 to 1977; Continuing annually; Data also available for 1945, 1947, 1956, and 1965.
Status of Data Base Operational

Users
Consultants; State and local agencies; U.S. Geological Survey; Water Management Districts
Data Availability
Available for unlimited access
Output Media
Batch computer printout; Publication
Storage Media Punched cards
Size of Data Base
1,584 Records; 80 characters per record.
Computer Residence
BUR Tallahassee, FL
Languages ADVANCED ASSEMBLY
Abstract
The computerized data base Water Use By Selected Municipalities In Florida (WUSMIF) was developed in 1970 and became operational in the same year. Currently, WUSMIF consists of individual records for about 169 municipalities and 5 water supply systems in Florida. Included is basic information needed to evaluate municipal water supplies. Program output consists of computer printout from punched cards of tabulated data arranged alphabetically by municipality. The data table includes title, headnotes, column headings, numeric and coded data for water and sewage use and treatment. Municipalities include county seats, cities of at least 5,000 population, and municipalities using water derived in whole or in part from surface water sources.
Documentation None
Date of This Information October 1979

219

Name
WATSTORE REAL-TIME FRONT END HYDROLOGIC DATA PROCESSING SYSTEM
Acronym WRAFT
Data Base Type Spatial
System That Accesses Data Base
WATSTORE
Division/Office
Water Resources Division
Contact Person William G. Shope
Contact Telephone
(703) 860-6014 (FTS) 928-6014
Contact Address
U.S. Geological Survey
Water Resources Division
MS 460
Reston, VA 22092
Subject Coverage
Hydrologic resources information; Real-time data
Keywords
Hydrologic Data; Real Time; Remote Data-Collection Sites; Satellite Relay; Surface Water; Water Quality
Geographical Coverage United States
Spatial Data Type Point
Coordinate System Latitude/Longitude
Sources of Data in Data Base
Remote hydrologic data-collection sites equipped with automatic monitoring and data telemetry equipment
Time Span of Data Collected
Current three days
Status of Data Base Under development
Users
National Weather Service; State and local natural-resources agencies; River-basin commissions
Data Availability
Available for unlimited access
Output Media Interactive access
Storage Media Disc
Size of Data Base
20,000 records; 40 to 100 characters per record
Computer Residence
HIS MULTICS Reston, VA
Languages PL/1; MRDS
Abstract
The Water Resources Division is currently developing a real-time front-end processing system for WATSTORE. Data will be transmitted from remote hydrologic stations via satellite, received at ground stations, and delivered to the USGS Honeywell computer in Reston. The files and software of the Honeywell system will comprise the real-time front-end processing system. Data will be available on the Honeywell computer for interactive access and

processing by WRD field offices and the respective cooperators. The system will also be used for monitoring transmissions and inventorying of real-time data. The files will provide for storage of only the most current three days data. On a daily basis, data will be transferred automatically from the Honeywell computer into the WATSTORE files. The more common types of data that will enter and pass through the real-time system include water stage, reservoir and lake levels, pH, conductance, dissolved oxygen, and temperature. These data will be recorded and transmitted at 15-, 30-, or 60-minute intervals. The file will be accessed on an interactive basis.

Documentation None

Comments

The system is anticipated to be available in late 1979.

Date of This Information October 1979

220

Name WELL HEADER FILE

Acronym WHF

Data Base Type Spatial; Data

System That Accesses Data Base

THE WELL DATA BASE

Division/Office

Water Resources Division

Contact Person George W. Hawkins

Contact Telephone

(516) 938-8830

Contact Address

U.S. Geological Survey
Water Resources Division
5 Aerial Way
Syosset, NY 11791

Subject Coverage

Well-site information and data available in subfiles

Keywords

Aquifer; Ground Water; Hydrologic Data

Geographical Coverage

Long Island, New York

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base

U.S. Geological Survey and Long Island cooperators

Time Span of Data Collected

1900 to the present

Status of Data Base Operational

Users USGS hydrologists

Data Availability

Available for unlimited access

Output Media

Interactive access; Batch computer printout

Storage Media Disc

Size of Data Base

5,000 wells; 372 bytes per well

Computer Residence

Data General Syosset, NY

Language FORTRAN IV

Abstract

This is a master list of wells in the WELL DATA BASE and where data is located on tape in the subfiles. Active common site information is stored on disc.

Documentation

Hawkins, George W., Introduction to the Syosset WELL DATA BASE.
Hawkins, George W., Coding instructions for entering, updating, and deleting well information in the Syosset WELL HEADER FILE

Date of This Information October 1979

221

Name WELL LOG DATA FILE

Acronym WLDF

Data Base Type Spatial

Division/Office

Water Resources Division

Contact Person Henry G. Healy

Contact Telephone

(904) 386-1110 Ext 22
(FTS) 946-4252

Contact Address

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

Subject Coverage

An index of geophysical and sample logs available in Florida from

different State agencies as well as from U.S. Geological Survey, Water Resources Division offices in the State.

Keywords
Aquifers; Borehole Geophysics; Electrical Well Logging; Ground Water; Restivity; Wells

Geographical Coverage
Florida statewide

Spatial Data Type Point

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Hydrologists, geologists, and technicians using well logging techniques of the U.S. Geological Survey (Denver and Florida District); Florida Bureau of Geology; and five Water Management Districts in the State.

Time Span of Data Collected
1972 to the present; updated annually in February

Status of Data Base Operational

Users
Florida Bureau of Geology; Subdistrict offices of the U.S. Geological Survey at Orlando, Tampa, Tallahassee, Jacksonville and Miami; Water Management Districts

Data Availability
Available for unlimited access

Output Media
Batch computer printout

Storage Media
Magnetic tape; Punched cards; Disc

Size of Data Base
1,652 Records; Maximum of 80 characters per record

Computer Residence
IBM 370/155 Reston, VA

Languages FORTRAN

Abstract
The computerized data base, Well Log Data File (WLDF) of the Water Resources Division, Florida District, provides a reference and index to the locations of geophysical logs by responsible offices. The index includes the well or data site number by latitude and longitude; the county; ownership; Section, Township, and Range; interval or total footage logged; the agency that logged the well; well depth and diameter; aquifer; use of well; speed of logging; and office responsible for the actual log. The foregoing are included as guides for the purpose of making any necessary preliminary evaluation of the log data prior to examining the actual log.

Documentation None

Date of This Information October 1979

222

Name WRD COUNTY CODE FILE

Acronym WRD.COUNTY

Data Base Type Spatial

System That Accesses Data Base
WATSTORE

Division/Office
Water Resources Division

Contact Person Charles F. Merk

Contact Telephone
(703) 860-6871 (FTS) 928-6871

Contact Address
U.S. Geological Survey
Water Resources Division
MS 437
Reston, VA 22092

Subject Coverage
Latitude/Longitude boundaries for counties in the United States

Keywords
County Name; FIPS County Codes; Latitude/Longitude Boundaries

Geographical Coverage
States and outlying areas of the United States; Mexico; Canada

Spatial Data Type Point; Polygon

Coordinate System Latitude/Longitude

Sources of Data in Data Base
Bureau of Standards Federal Information Processing Standards Publication (FIPS PUB) 6-2 and CACI, Inc.

Time Span of Data Collected
1974 to the present

Status of Data Base Operational

Users Registered WATSTORE members

Data Availability
Available for limited access

Output Media Batch computer printout

Storage Media Disc
Size of Data Base
3,281 records; 101 bytes per record
Computer Residence
IBM 370/155 Reston, VA
Language PL/1
Abstract
The purpose of the WRD County Code File is to provide a single source of county identification information for all WATSTORE data-processing programs. A county file record composed of eight fixed items of county identification information is available for each county in the United States and outlying areas, Canada, and Mexico. The WRD County Code File record contains identifiers that locate and describe the county, such as State code, county code, county name, and maximum and minimum latitude and longitude.
Documentation
Federal Information Processing Standards Publication (FIPS PUB) 6-2, Counties and County Equivalents to the States of the United States
Date of This Information October 1979

223

Name
WRD/MIS PROJECTS INFORMATION SYSTEM
Acronym WPI
Data Base Type Bibliographic
System That Accesses Data Base
WRD/MIS DATA NETWORK
Division/Office
Water Resources Division
Contact Person Ralph S. Klesert
Contact Telephone
(703) 860-6861 (FTS) 928-6861
Contact Address
U.S. Geological Survey
Water Resources Division
MS 405
Reston, VA 22092
Subject Coverage
Information about water resources investigational activities (projects and programs) and related administrative support functions
Keywords
Programs; Project Descriptions; Publications; Reports; Water Resources Investigations
Geographical Coverage
Nationwide, outlying areas of the United States, and selected other countries
Sources of Data in Data Base
WRD Project leaders; other Federal, State, and local Agencies (through Office of Water Data Coordination); USGS Financial Management System (FMS); Department of the Interior Personnel System (DIPS); WRD Finance and Fiscal Analysis Section; WRD Headquarters Staff; WRD Planning Section
Time Span of Data Collected
1970 to the present
Status of Data Base Operational
Users
Information is disseminated, directly or indirectly, to individuals at all levels of management within the division, other divisions in the Bureau, the Director's Office, other Federal agencies, non-Federal agencies, universities, institutes, commissions, federal legislators, the public, and occassionally other nations.
Data Availability
Available for unlimited access
Output Media
Interactive access; Magnetic tape; Batch computer printout; Publication; Microform; Punched cards
Storage Media
Magnetic tape; Microform; Disc; Text
Size of Data Base
4,034 records; average variable-length record size is 4,717 bytes
Computer Residence
IBM 370/155 Reston, VA
Languages
GIPSY; SYSTEM 2000; PL/1; IRS; EASYTRIEVE; DATABUS; SAS; and JANUS II

Abstract

The WRD/MIS Projects Information System (WPI) contains WRD project description data and descriptions of water resources areal investigations performed by other Federal, State, or local agencies as reported to the Office of Water Data Coordination (OWDC). The information consists of text, codes, and numeric data. Some areal investigation information items covered are agency, title, scope, location, time span, areal extent, staffing and funding support, planned reports, and keywords and codes depicting the hydrologic character of the study. WRD project records also include other types of project data (CBR, research, and administrative), additional items (progress and significant results, reports in progress and published, and program budget item codes), and all the above plus greater detail on geographical distribution, funding, manpower, and hydrologic classification codes. The data is managed by the GIPSY and SYSTEM 2000 data base systems, and a user information retrieval software interface (JANUS II) has been developed, which simultaneously accesses data in the two systems and enables remote computer terminal users, with little or no ADP background, to submit their own self-programmed queries and retrieve reports.

Documentation

Water Resources Division, 1975, WRD Management Information System (MIS) Revised Project Description Forms, Instructions, and Code Lists: WRD Memorandum No. 75-177; Water Resources Division, 1977, WRD/MIS Retrievals from Remote Field Terminals (JANUS/II)--Interface Procedure and Data Attributes List: WRD Memorandum No. 78.29; Water Resources Division, in preparation, WRD/MIS Systems Manual: MIS Unit internal document.

Date of This Information October 1979

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