

# U.S. Rivers and Streams

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification Information:*

#### *Citation:*

##### *Citation Information:*

##### *Originator:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

##### *Originator:* ESRI

*Publication Date:* 20040301

*Title:* U.S. Rivers and Streams

*Edition:* 2004

*Geospatial Data Presentation Format:* vector digital data

##### *Series Information:*

*Series Name:* ESRI® Data & Maps

*Issue Identification:* 2004

##### *Publication Information:*

*Publication Place:* Redlands, California, USA

*Publisher:* ESRI

*Other Citation Details:* Location: \usa\hydro

### *Description:*

#### *Abstract:*

U.S. Rivers and Streams represents detailed rivers and streams in the United States.

#### *Purpose:*

U.S. Rivers and Streams provides a database of linear water features that interconnects and identifies the stream segments or reaches that comprise the surface water drainage system of United States.

*Supplemental Information:* Largest scale when displaying the data: 1:24,000.

*Time Period of Content:*

*Time Period Information:*

*Single Date Time:*

*Calendar Date:* 1999

*Currentness Reference:* publication date

*Status:*

*Progress:* Complete

*Maintenance and Update Frequency:* Matches software update releases

*Spatial Domain:*

*Bounding Coordinates:*

*West Bounding Coordinate:* -160.186636

*East Bounding Coordinate:* -66.988391

*North Bounding Coordinate:* 49.358327

*South Bounding Coordinate:* 18.922745

*Keywords:*

*Thesaurus:*

*Thesaurus Keyword Thesaurus:* None

*Thesaurus Keyword:* line

*Thesaurus Keyword:* rivers

*Thesaurus Keyword:* streams

*Thesaurus Keyword:* hydrography

*Thesaurus Keyword:* inlandWaters

*Place:*

*Place Keyword Thesaurus:* None

*Place Keyword:* United States

*Temporal:*

*Temporal Keyword Thesaurus:* None

*Temporal Keyword:* 1999

*Access Constraints:* Access granted to Licensee only.

*Use Constraints:*

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*Point of Contact:*

*Contact Information:*

*Contact Organization Primary:*

*Contact Organization:* ESRI  
*Contact Person:* Data Team

*Contact Address:*

*Address Type:* mailing and physical address  
*Address:* 380 New York Street  
*City:* Redlands  
*State or Province:* California  
*Postal Code:* 92373-8100  
*Country:* USA

*Contact Voice Telephone:* 909-793-2853

*Contact Facsimile Telephone:* 909-793-5953

*Contact Electronic Mail Address:* info@esri.com

*Hours of Service:* 8:00 a.m.–5:30 p.m. Pacific time, Monday–Friday

*Contact Instructions:*

In the United States– Please direct all inquiries regarding software/data pricing and consulting services to your local ESRI Regional Office. For support, you may contact Technical Support by telephone (voice) between 6:00 a.m. and 6:00 p.m. Pacific time, Monday through Friday, by dialing 909-793-3774; facsimile (fax) available at 909-792-0960; electronic mail (e-mail) support@esri.com; or visit <http://support.esri.com>; ESRI holidays excluded.

Outside the United States– Please direct all inquiries regarding software/data pricing, sales, support, and consulting services to your local ESRI International Distributor. This information can be found at <http://gis.esri.com/intldist/contactint.cfm>.

For other questions or comments, you may contact ESRI headquarters by e-mail, telephone, or fax or write to us.

*Native Data Set Environment:*

Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 3; ESRI ArcCatalog 8.3.0.800

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*Data Quality Information:*

*Logical Consistency Report:*

No duplicate features are present. The shapefile is converted to SDC (Smart Data Compression) format in ArcSDE®. This verifies and validates the geometry.

*Completeness Report:*

After processing, the data set is checked for drawing display and number of records and file sizes compared with source materials. Some of the cartographic disparities with this data, inherent in the original 1:100,000 source data, remain in that the density of features can change abruptly.

[From National Hydrography Dataset (NHD) documentation - The completeness of the data reflects the content of the sources, which, in the initial release of the National Hydrography Dataset, most often are U.S. Geological Survey topographic maps. Features found on the ground may have been eliminated or generalized on the source graphic because of scale and legibility constraints. In general, streams longer than one mile (approximately 1.6 kilometers) were collected. Most streams that flow from a lake were collected regardless of length. Only definite channels were collected so not all swamp/marsh features have stream/river delineated through them. Lake/ponds having an area greater than 6 acres (approximately 2.4 hectares) were collected. Note, however, that these general rules were applied unevenly among maps during compilation. Some map quadrangles have a much sparser pattern of hydrography than do adjoining maps and these differences continue in the digital rendition of these features. Transport reaches are defined on nearly all features of type stream/river, canal/ditch, artificial path, pipeline, and connector. Waterbody reaches are defined on the subset of lake/pond features that were identified as waterbodies during the development of Reach File Version 3. Most attention in applying geographic names was given to transport reaches that follow stream/river and waterbody reaches. Near the international boundaries with Canada and Mexico, only the parts of features within the United States are delineated. Detailed capture conditions are provided for every feature type in the Standards for National Hydrography Dataset (USGS, 1999), available online through <http://mapping.usgs.gov/standards/>.]

*Positional Accuracy:*

*Horizontal Positional Accuracy:*

*Horizontal Positional Accuracy Report:*

The data set originally comes from several sources. Most of the data is from U.S. Geological Survey topographic quadrangle maps or sources that exceed its horizontal accuracy. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is met if at least 90 percent of points tested are within 0.02 inch (at map scale) of their true position. At 1:100,000 scale, 0.02 inch is approximately 167 feet (50.8 meters).

*Lineage:*

*Source Information:*

*Source Citation:*

*Citation Information:*

*Originator:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Publication Date:* 1999

*Title:* National Hydrography Dataset

*Geospatial Data Presentation Form:* vector digital data

*Series Information:*

*Publication Information:*

*Publication Place:* Reston, Virginia, USA

*Publisher:* U.S. Geological Survey

*Other Citation Details:*

National Hydrography Dataset is an ongoing project with Alaska being worked on currently.

*Online Linkage:* <http://nhd.usgs.gov/>

*Source Scale Denominator:* 100000

*Type of Source Media:* CD-ROM

*Source Time Period of Content:*

*Time Period Information:*

*Single Date Time:*

*Calendar Date:* 1999

*Source Currentness Reference:* publication date

*Source Citation Abbreviation:* NHD

*Source Contribution:* Attribute and geospatial data

*Process Step:*

*Process Description:*

Convert DLG [Digital Line Graph] data to features: This process converted DLG data to features and associated characteristics and converted the coordinate system to geographic (longitude-latitude) coordinates in NAD83 in five steps: 1. The USGS's [U.S. Geological Survey] "Batch DLG-3 to DLG-F Conversion System" converted DLG-3 nodes, lines, areas, and associated attribute codes to temporary features and associated characteristics. Known conditions for which conversions could not be reliably made were flagged for later inspection. Only known conversion problems were flagged, and no additional steps were taken to detect or repair discrepancies in the original DLG-3 or the converted NHD [National Hydrography Dataset]. 2. A default value of a characteristic was added in cases where the description was incomplete. 3. All instances in which data were flagged were inspected and resolved interactively. 4. Feature delineation rules were applied to the temporary features in a batch process to create the final version of features. 5. Coordinate values were converted to geographic coordinates and to the NAD83 using the NADCON software version 2.1 (National Geodetic Survey, n.d.).

This process generated the "features" data. Build reaches: The basic steps for building reaches are as follows: 1. Convert RF3 [Reach File Version 3] to RF3" (RF3 double prime). This batch operation processed Reach File Version 3 to delete duplicate reaches, reassign reaches to the correct cataloging unit, validate geographic names assigned to reaches against data from the Geographic Names Information System (December 1996 extract), apply updates supplied by the States of California and Arizona, redelineate reaches on the basis of standards used for the NHD, and identify inflow/outflow points where transport reaches entered and exited waterbodies. 2. Create artificial paths. Using waterbodies from the feature data and inflow/outflow points extracted from RF3", this process automatically generated the centerlines used to delineate artificial paths within waterbodies by using subroutines within the ARC/INFO® GRID module. 3. Blind pass. This batch step conflated features and RF3" reaches and transferred reach information (reach code, reach date, name, stream level, and flow relationships) to the features. It also integrated the artificial paths generated in the previous step with the other features, built reaches on the artificial paths, and assigned geographic names (February 1995 extract) to waterbodies. 4. Quadrangle-based visual pass. During this interactive step, analysts ensured that the data developed in the previous batch processes conformed to reach delineation rules and that reaches were assigned to the appropriate cataloging unit. Batch procedures identified and developed a list of possible errors. (Errors not detected by the software may continue in the data.) Using the list, software presented each case to analysts to make appropriate edits to the data. Analysts recorded notes about repairs that could not be made and about other errors in the data. (These notes are encoded in the cataloging unit digital update units.) 5. Build superquads. After the quadrangle-based visual pass was complete, all quadrangles that cover all or part of each cataloging unit were paneled into a superquad. In this batch process, reaches that cross quad boundaries were corrected to conform to reach delineation rules. 6. Cataloging unit-based visual pass. As they did with the quadrangle-based visual pass, analysts ensured that reaches conformed to reach delineation rules. Batch procedures identified and

developed a list of possible errors. (Errors not detected by the software may continue in the data.) Analysts examined each error and corrected the data. Analysts recorded notes about repairs that could not be made and about other errors in the data. (These notes are encoded in the cataloging unit digital update units.) 7. Central quality assurance/quality control. This step (1) confirmed that integrity checks were performed successfully during the visual pass activity, and (2) assessed statistics gathered during the earlier processes to determine if additional review of data was needed. A check of data from the cataloging unit-based visual pass was run in batch; any data that did not pass the procedure were reviewed interactively. If substantive changes were required, the data were reprocessed using procedures (as required) described in previous steps. The edited data then were rechecked using the central quality assurance/quality control process. 8. Data preparation and database load. This batch procedure performed final processing to the data emerging from the quality assurance/quality control step. Some of the activities included assigning the final reach codes, building waterbody reaches, adding final artificial paths in waterbodies, and implementing any recent changes in standards for the NHD. The spelling of geographic names was replaced using the March 1999 data extract from the Geographic Names Information System. After this, reaches, features, characteristics, geographic names, and relations were loaded into the database that holds the NHD. 9. Flow relation correction and validation. The flow relations were checked for consistency through a batch procedure, which generated a list of possible errors. Software presented possible errors to analysts, who corrected flow relations and, occasionally, the delineation of reaches. Changes were posted to the database. 10. Extract distribution copies of data. Data for a cataloging unit were extracted from the database and converted into an ARC/INFO® workspace containing coverages and other files. Data available in the Spatial Data Transfer Standard format were developed from the workspaces. The workspaces and the Spatial Data Transfer Standard-formatted files were made available to the public.

*Process Date:* 1999

*Source Produced Citation A reviation:* NHD

*Process Step:*

*Process Description:*

The following steps were performed by ESRI: Extracted NHD Route DRAIN from National Hydrography Dataset (NHD). Added STRM\_LEVEL and NAME attributes from NHD Route RCH. Removed unneeded attributes. Split the data set by U.S. states (for easier processing). Unsplit features based on combining NAME, FTYPE, FCODE, and STRM\_LEVEL attributes. Merged the data sets into one. Recalculated the lengths for the METERS attribute. Formatted the attributes. Created ArcGIS® layer file (.lyr), projection file (.prj), and spatial indices. Converted the data set to SDC.

*Source Used Citation A reviation:* NHD

*Process Date:* 20021113

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*Spatial Data Organization Infor ation:*

*Direct Spatial Reference Method:* Vector  
*Point and Vector Object Infor ation:*

*SDTS Terms Description:*

*SDTS Point and Vector Object Type:* String  
*Point and Vector Object Count:* 1899923

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*Spatial Reference Infor ation:*

*Horizontal Coordinate System Definition:*

*Geographic:*

*Latitude Resolution:* 0.000009  
*Longitude Resolution:* 0.000009  
*Geographic Coordinate Units:* Decimal degrees

*Geodetic Model:*

*Horizontal Datum Name:* North American Datum of 1983  
*Ellipsoid Name:* Geodetic Reference System 80  
*Semi-major Axis:* 6378137.000000  
*Denominator of Flattening Ratio:* 298.257222

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*Entity and Attribute Infor ation:*

*Detailed Description:*

*Entity Type:*

*Entity Type Label:* dtl\_riv  
*Entity Type Definition:*  
 The lines represent the detailed rivers and streams in the United States.  
*Entity Type Definition Source:* ESRI

*Attribute:*

*Attribute Label:* ObjectID  
*Attribute Definition:* Internal feature number.  
*Attribute Definition Source:* ESRI  
*Attribute Domain Values:*

*Unrepresentable Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute Label:* NAME  
*Attribute Definition:* The name of the river or stream.  
*Attribute Definition Source:* ESRI

*Attribute Domain Values:*

*Unrepresentable Domain:* Names for the features.

*Attribute:*

*Attribute Label:* FTYPE

*Attribute Definition:* The feature type of river or stream.

*Attribute Definition Source:* ESRI

*Attribute Domain Values:*

*Enumerated Domain:*

*Enumerated Domain Value:* ARTIFICIAL PATH

*Enumerated Domain Value Definition:*

The linear water feature allows connectivity through areal features (for example, lake/ponds and stream/streams).

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Domain:*

*Enumerated Domain Value:* CANAL/DITCH

*Enumerated Domain Value Definition:*

The linear water feature is a canal (1-dimensional) or ditch (1-dimensional).

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Domain:*

*Enumerated Domain Value:* CONNECTOR

*Enumerated Domain Value Definition:*

The linear water feature is a connector (fill gaps in the delineation of features through which water flows).

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Domain:*

*Enumerated Domain Value:* PIPELINE

*Enumerated Domain Value Definition:* The linear water feature is a pipeline.

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Domain:*

*Enumerated Domain Value:* STREAM/RIVER

*Enumerated Domain Value Definition:*

The linear water feature is a stream (1-dimensional) or river (1-dimensional).

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Attribute:*

*Attribute Label:* FCODE

*Attribute Definition:*

The feature code (five-digit) for the river or stream. The first three digits encode the feature type; the last two digits encode values for a set of characteristics associated with the feature.

*Attribute Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Attribute Domain Values:*

*Enumerated Domain:*

*Enumerated Domain Value:* 0

*Enumerated Domain Value Definition:* unknown

*Enumerated Domain Value Definition Source:* ESRI

*Enumerated Domain:*

*Enumerated Domain Value:* 33400, 33600, 42800, 46000, 55800

*Enumerated Domain Value Definition:* Feature type only: no attributes.

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Domain:*

*Enumerated Domain Value:* 33601

*Enumerated Domain Value Definition:* Canal/Ditch Typeaqueduct.

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Domain:*

*Enumerated Domain Value:* 33602

*Enumerated Domain Value Definition:* Canal/Ditch Typeunspecified.

*Enumerated Domain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value:* 42801

*Enumerated Do ain Value Definition:*

Product/water; Pipeline Type/aqueduct; Relationship to Surface/at or near.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value:* 42802

*Enumerated Do ain Value Definition:*

Product/water; Pipeline Type/aqueduct; Relationship to Surface/elevated.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value:* 42803

*Enumerated Do ain Value Definition:*

Product/water; Pipeline Type/aqueduct; Relationship to Surface/underground.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value:* 42804

*Enumerated Do ain Value Definition:*

Product/water; Pipeline Type/aqueduct; Relationship to Surface/underwater.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value:* 42807

*Enumerated Do ain Value Definition:*

Product/water; Pipeline Type/general case; Relationship to Surface/underground.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value: 42809*

*Enumerated Do ain Value Definition:*

Productwater; Pipeline Typelpenstock; Relationship to  
Surfacelat or near.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental  
Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value: 42811*

*Enumerated Do ain Value Definition:*

Productwater; Pipeline Typelpenstock; Relationship to  
Surfacelunderground.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental  
Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value: 42813*

*Enumerated Do ain Value Definition:*

Productwater; Pipeline Typelsiphon; Relationship to  
Surfacelunspecified.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental  
Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value: 46001*

*Enumerated Do ain Value Definition:*

Hydrographic Categorylintermittent; Positional  
Accuracyldefinite.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental  
Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value: 46002*

*Enumerated Do ain Value Definition:*

Hydrographic Categorylintermittent; Positional  
Accuracylindefinite.

*Enumerated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental  
Protection Agency

*Enumerated Do ain:*

*Enumerated Do ain Value: 46004*

*Enumerated Doain Value Definition:* Hydrographic Category/perennial; Positional Accuracy/definite.

*Enumerated Doain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Enumerated Doain:*

*Enumerated Doain Value:* 46005

*Enumerated Doain Value Definition:*

Hydrographic Category/perennial; Positional Accuracy/indefinite.

*Enumerated Doain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Attribute:*

*Attribute Label:* FCODE\_DESC

*Attribute Definition:* The description of the feature code for the river or stream.

*Attribute Definition Source:* ESRI

*Attribute Doain Values:*

*Unrepresentable Doain:* Descriptions for the features.

*Attribute:*

*Attribute Label:* STRM\_LEVEL

*Attribute Definition:*

The numeric code that identifies the path level of water flow through a drainage network for the river or stream. The lowest value ["1" for rivers or streams that terminate at the Atlantic, Pacific, or Arctic Oceans, the Gulf of Mexico, or the Caribbean Sea; "2" for rivers or streams that terminate at the Great Lakes or the Great Salt Lake; "3" for rivers or streams that terminate at the boundary of the United States with Canada or Mexico; "4" for rivers or streams that terminate at any other place (isolated drainage).] for stream level is assigned to a river or stream at the end of a flow and to upstream rivers and streams that trace the main path of flow back to the head. The stream level value is incremented by one and is assigned to all rivers and streams that terminate at this path (that is, all tributaries to the path) and to all rivers and streams that trace the main path of the flow along each tributary back to its head. The stream level value is incremented again and is assigned to rivers and streams that trace the main path of the tributaries to their heads. This process is continued until all rivers and streams for which flow is encoded are assigned a stream level.

*Attribute Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Attribute Doain Values:*

*Range Doain:*

*Range Do ain Mini u* : 1  
*Range Do ain Maxi u* : 99

*Attri ute Do ain Values:*

*Enu erated Do ain:*

*Enu erated Do ain Value:* -9998

*Enu erated Do ain Value Definition:* The linear water feature is unspecified.

*Enu erated Do ain Value Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Attri ute:*

*Attri ute La el:* METERS

*Attri ute Definition:* The length of the river or stream in meters.

*Attri ute Definition Source:*

U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency

*Attri ute Do ain Values:*

*Unrepresenta le Do ain:* Calculated lengths for the features.

*Attri ute:*

*Attri ute La el:* shape

*Attri ute Definition:* Feature geometry.

*Attri ute Definition Source:* ESRI

*Attri ute Do ain Values:*

*Unrepresenta le Do ain:* Coordinates defining the features.

*Distri ution Infor ation:*

*Distri utor:*

*Contact Infor ation:*

*Contact Organization Pri ary:*

*Contact Organization:* ESRI; ESRI International Distributors

*Contact Address:*

*Address Type:* mailing and physical address

*Address:* 380 New York Street

*City:* Redlands

*State or Province:* California

*Postal Code:* 92373-8100

*Country:* USA

*Contact Voice Telephone:* 800-447-9778

*Contact Instructions:*

In the United States, contact the ESRI Telesales staff at 800-447-9778 for more information about our software and data.

Outside the United States, please direct all inquiries to your local ESRI International Distributor. This information can be found at

<http://gis.esri.com/intldist/contactint.cfm>.

*Resource Description:* Offline Data

*Distribution Liability:* See use constraints.

*Standard Order Process:*

*Digital For :*

*Digital Transfer Information:*

*Format Name:* SDC

*Format Specification:*

The SDC file contains the geospatial and attribute data. The SDI file contains the spatial and attribute indexes. The PRJ file contains the coordinate system information (optional). The XML file (\*.sdc.xml) contains the metadata describing the data set (optional).

*File Decompression Technique:* ArcGIS® software

*Transfer Size:* 98.377

*Digital Transfer Option:*

*Offline Option:*

*Offline Media:* DVD-ROM

*Recording Capacity:*

*Recording Density:* 4.38

*Recording Density Units:* GB (gigabytes)

*Recording Format:* ISO 9660

*Offline Option:*

*Offline Media:* CD-ROM

*Recording Capacity:*

*Recording Density:* 650

*Recording Density Units:* MB (megabytes)

*Recording Format:* ISO 9660

*Fees:* Software purchase price

*Ordering Instructions:* ESRI Data & Maps is available only as part of ESRI® software.

*Technical Prerequisites:* To use this data requires software that supports SDC files.

*Metadata Reference Information:**Metadata Date:* 20040115*Metadata Contact:**Contact Information:**Contact Organization Primary:**Contact Organization:* ESRI*Contact Person:* Data Team*Contact Address:**Address Type:* mailing and physical address*Address:* 380 New York Street*City:* Redlands*State or Province:* California*Postal Code:* 92373-8100*Country:* USA*Contact Voice Telephone:* 909-793-2853*Contact Facsimile Telephone:* 909-793-5953*Contact Electronic Mail Address:* info@esri.com*Hours of Service:* 8:00 a.m.–5:30 p.m. Pacific time, Monday–Friday*Metadata Standard Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata Standard Version:* FGDC-STD-001-1998*Metadata Time Convention:* local time*Metadata Extensions:**Online Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile Name:* ESRI Metadata Profile

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