

# Sample Metadata File

## Rural Water System Facilities in Oklahoma

### Metadata:

The  
Seven  
Sections  
of the  
Standard

- Identification\_Information
- Data\_Quality\_Information
- Spatial\_Data\_Organization\_Information
- Spatial\_Reference\_Information
- Entity\_and\_Attribute\_Information
- Distribution\_Information
- Metadata\_Reference\_Information

Section  
One

#### Identification\_Information:

**Citation:**

**Citation\_Information:**

**Originator:** Oklahoma Water Resources Board

**Publication\_Date:** 199801

**Title:** Rural Water System Facilities in Oklahoma

**Geospatial\_Data\_Presentation\_Form:** map

**Publication\_Information:**

**Publication\_Place:** Oklahoma City, OK

**Publisher:** Oklahoma Water Resources Board

**Online\_Linkage:** <http://www.seic.okstate.edu>

**Description:**

**Abstract:**

"Rural Water System Facilities in Oklahoma" is a data set that contains the facility types and locations for the rural water systems in Oklahoma. The point coverage is part of the "Rural Water Systems in Oklahoma" atlas produced by the Oklahoma Water Resources Board. It is an updated version from the original survey in 1980. Facility types include: water wells, pumps, stand pipes, storage tanks, treatment plants, water towers, and storage reservoirs. In order to obtain information about the Rural Water System for each facility, the RWDMAN.DBF file must be joined to the RWS\_FAC.PAT file using RWD\_CODE as the common field.

**Purpose:**

The goal of the project is to recompose an up-to-date comprehensive inventory of rural water systems and to facilitate better management of Oklahoma's rural water resources through utilization of GIS technology for data management and manipulation.

**Supplemental Information:**

Water Districts were contacted by OWRB staff and asked to supply map and water system information for their respective districts. Map data from each system were drafted onto the appropriate county base map at a scale of 1:63,360, then transferred from paper media to a mylar base map at an identical scale. Spatial data were digitized and converted into ARC/INFO coverages. Non-spatial descriptive data describing characteristics of each rural water district were stored in an INFORMIX database. This data was joined to the spatial data by creating a JOIN between the RWS\_POLY.pat table and the RWDMAN.dbf table. Once all data layers were developed, the entire dataset was pulled into ArcView for viewing and manipulation.

**Time\_Period\_of\_Content:**

**Time\_Period\_Information:**

**Range\_of\_Dates/Times:**

**Beginning\_Date:** 19950105

**Ending\_Date:** 19970801

**Currentness\_Reference:** 19970801

**Status:**

**Progress:** Complete

**Maintenance\_and\_Update\_Frequency:** As needed

**Spatial\_Domain:**

**Bounding\_Coordinates:**

**West\_Bounding\_Coordinate:** -103.0

**East\_Bounding\_Coordinate:** -94.0

**North\_Bounding\_Coordinate:** 37.0

**South\_Bounding\_Coordinate:** 33.0

**Keywords:**

**Theme:**

**Theme\_Keyword\_Thesaurus:** none

**Theme\_Keyword:** Rural Water Systems

**Theme\_Keyword:** Municipal Water

**Theme\_Keyword:** Rural Water District

**Theme\_Keyword:** Municipal Authority

**Theme\_Keyword:** Water Trust

**Theme\_Keyword:** Water Cooperative

**Theme\_Keyword:** Pipeline

**Theme\_Keyword:** Water Wells

**Theme\_Keyword:** Water Treatment Plants

**Theme\_Keyword:** Water Storage

**Access\_Constraints:** none

**Use\_Constraints:**

The user accepts all responsibility for any use of these data. Acknowledgment of the Oklahoma Water Resources Board would be appreciated in products derived from these data.

**Point\_of\_Contact:**

**Contact\_Information:**

**Contact\_Organization\_Primary:**

**Contact\_Organization:** Oklahoma Water Resources Board

**Contact\_Person:** Terri Sparks

**Contact\_Address:**

**Address\_Type:** mailing and physical address

**Address:** 3800 N. Classen Blvd.

**City:** Oklahoma City

**State\_or\_Province:** Oklahoma

**Postal\_Code:** 73118

**Country:** USA

**Contact\_Voice\_Telephone:** (405) 530-8800

**Contact\_Facsimile\_Telephone:** (405) 530-8900

**Contact\_Electronic\_Mail\_Address:** tgsparks@owrb.state.ok.us

**Hours\_of\_Service:** normal business hours

**Data\_Set\_Credit:** Oklahoma Water Resources Board Staff

**Native\_Data\_Set\_Environment:** Unix ARC/INFO 7.1.1

**Section  
Two**

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**Data\_Quality\_Information:**

**Attribute\_Accuracy:**

**Attribute\_Accuracy\_Report:**

Overlay information with base map information and plot out to manually compare proximity and attribute correctness

**Logical\_Consistency\_Report:** Facilities are located along pipelines which they service.

**Completeness\_Report:**

All facilities were digitized and checked against original copy.

**Lineage:**

**Source\_Information:**

**Source\_Citation:**

**Citation\_Information:**

**Originator:** Oklahoma Water Resources Board

**Publication\_Date:** 19800901

**Title:** Rural Water Systems in Oklahoma

**Geospatial\_Data\_Presentation\_Form:** atlas

**Series\_Information:**

**Series\_Name:** Rural Water Survey

**Issue\_Identification:** PUB 98

**Publication\_Information:**

**Publication\_Place:** Oklahoma City, OK

**Publisher:** Oklahoma Water Resources Board

**Other\_Citation\_Details:** See supplemental information for additional comments

**Type\_of\_Source\_Media:** paper

**Source\_Time\_Period\_of\_Content:**

**Time\_Period\_Information:**

**Single\_Date/Time:**

**Calendar\_Date:** 19800901

**Source\_Currentness\_Reference:** publication date

**Source\_Citation\_Abbreviation:** org\_atlas

**Source\_Contribution:** The original atlas was used as a reference guide.

**Source\_Information:**

**Source\_Citation:**

**Citation\_Information:**

**Originator:** Rural water systems' representatives

**Publication\_Date:** Unpublished material

**Title:** N/A

**Geospatial\_Data\_Presentation\_Form:** map

**Publication\_Information:**

**Publication\_Place:** N/A

**Publisher:** N/A

**Type\_of\_Source\_Media:** varied

**Source\_Time\_Period\_of\_Content:**

**Time\_Period\_Information:**

**Range\_of\_Dates/Times:**

**Beginning\_Date:** 19950105

**Ending\_Date:** 19970801

**Source\_Currentness\_Reference:** 1995 to 1997

**Source\_Citation\_Abbreviation:** N/A

**Source\_Contribution:** Locations of the individual rural water systems' facilities.

**Source\_Information:**

**Source\_Citation:**

**Citation\_Information:**

**Originator:** Oklahoma Department of Transportation Planning Division

**Publication\_Date:** 199201

**Title:** General Highway Maps

**Geospatial\_Data\_Presentation\_Form:** map

**Publication\_Information:**

**Publication\_Place:** Oklahoma City, OK

**Publisher:** Oklahoma Department of Transportation

**Source\_Scale\_Denominator:** 63,360

**Type\_of\_Source\_Media:** stable-base material

**Source\_Time\_Period\_of\_Content:**

**Time\_Period\_Information:**

**Single\_Date/Time:**

**Calendar\_Date:** 1996

**Source\_Currentness\_Reference:** publication date

**Source\_Citation\_Abbreviation:** highways

**Source\_Contribution:**

base map for the transfer and digitizing of system facility locations and types.

**Process\_Step:**

**Process\_Description:**

System facility data gathered from the rural water districts were transferred by the OWRB to the mylar State highway maps.

**Source\_Used\_Citation\_Abbreviation:** highways

**Process\_Date:** 1996

**Source\_Produced\_Citation\_Abbreviation:** points

**Process\_Step:**

**Process\_Description:** Facilities were digitized and attributed using AutoCAD

**Source\_Used\_Citation\_Abbreviation:** points

**Process\_Date:** 1996

**Source\_Produced\_Citation\_Abbreviation:** rwd\_dwg

**Process\_Step:**

**Process\_Description:**

AutoCAD drawing of facilities was converted into an ARC/INFO coverage.

**Source\_Used\_Citation\_Abbreviation:** rwd\_dwg

**Process\_Date:** 1997

**Source\_Produced\_Citation\_Abbreviation:** rws\_fac

**Process\_Contact:**

**Contact\_Information:**

**Contact\_Organization\_Primary:**

**Contact\_Organization:** Oklahoma Water Resource Board

**Contact\_Person:** Terri Sparks

**Contact\_Address:**

**Address\_Type:** mailing and physical address

**Address:** 3800 N. Classen Blvd.

**City:** Oklahoma City

**State\_or\_Province:** Oklahoma

**Postal\_Code:** 73118

**Country:** USA

**Contact\_Voice\_Telephone:** (405) 530-8800

**Contact\_Facsimile\_Telephone:** (405) 530-8900

**Hours\_of\_Service:** normal business hours

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**Section  
Three**

**Spatial\_Data\_Organization\_Information:**

**Direct\_Spatial\_Reference\_Method:** point

**Point\_and\_Vector\_Object\_Information:**

**SDTS\_Terms\_Description:**

**SDTS\_Point\_and\_Vector\_Object\_Type:** Point

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**Section  
Four**

**Spatial\_Reference\_Information:**

**Horizontal\_Coordinate\_System\_Definition:**

**Planar:**

**Map\_Projection:**

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**Map\_Projection\_Name:** Albers Conical Equal Area

**Albers\_Conical\_Equal\_Area:**

**Standard\_Parallel:** 29 30 0.0

**Standard\_Parallel:** 45 30 0.0

**Longitude\_of\_Central\_Meridian:** -96 0 0.0

**Latitude\_of\_Projection\_Origin:** 23 0 0.0

**False\_Easting:** 0

**False\_Northing:** 0

**Planar\_Coordinate\_Information:**

**Planar\_Coordinate\_Encoding\_Method:** coordinate pair

**Coordinate\_Representation:**

**Abscissa\_Resolution:** 50 meters

**Ordinate\_Resolution:** 50 meters

**Planar\_Distance\_Units:** Meters

**Geodetic\_Model:**

**Horizontal\_Datum\_Name:** North American Datum of 1983

**Ellipsoid\_Name:** Geodetic Reference System 80

**Semi-major\_Axis:** 6,378,137

**Denominator\_of\_Flattening\_Ratio:** 298.257

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**Entity\_and\_Attribute\_Information:**

**Detailed\_Description:**

**Entity\_Type:**

**Entity\_Type\_Label:** rws\_fac.pat

**Entity\_Type\_Definition:** Point Attribute Table

**Entity\_Type\_Definition\_Source:** ARC/INFO

**Attribute:**

**Attribute\_Label:** AREA

**Attribute\_Definition:** N/A

**Attribute\_Definition\_Source:** computed

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** 0

**Enumerated\_Domain\_Value\_Definition:** N/A

**Enumerated\_Domain\_Value\_Definition\_Source:** N/A

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**Attribute:**

**Attribute\_Label:** PERIMETER

**Attribute\_Definition:** N/A

**Attribute\_Definition\_Source:** computed

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** 0

**Enumerated\_Domain\_Value\_Definition:** N/A

**Enumerated\_Domain\_Value\_Definition\_Source:** N/A

**Attribute:**

**Attribute\_Label:** RWS\_FAC#

**Attribute\_Definition:** Internal feature number

**Attribute\_Definition\_Source:** computed

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** 1-2076

**Enumerated\_Domain\_Value\_Definition:** N/A

**Enumerated\_Domain\_Value\_Definition\_Source:** N/A

**Attribute:**

**Attribute\_Label:** RWS\_FAC-ID

**Attribute\_Definition:** User-assigned feature number

**Attribute\_Definition\_Source:** user-defined

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** 1-2076

**Enumerated\_Domain\_Value\_Definition:** N/A

**Enumerated\_Domain\_Value\_Definition\_Source:** N/A

**Attribute:**

**Attribute\_Label:** FACIL\_TYPE

**Attribute\_Definition:** Facilities associated with the water districts

**Attribute\_Definition\_Source:** Oklahoma Water Resources Board

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** WELL

**Enumerated\_Domain\_Value\_Definition:** Water Well

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Enumerated\_Domain\_Value:** PUMP

**Enumerated\_Domain\_Value\_Definition:** Water Pump

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Enumerated\_Domain\_Value:** STPIPE

**Enumerated\_Domain\_Value\_Definition:** Stand Pipe

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Enumerated\_Domain\_Value:** STTANK

**Enumerated\_Domain\_Value\_Definition:** Storage Tank

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Enumerated\_Domain\_Value:** TPLANT

**Enumerated\_Domain\_Value\_Definition:** Treatment Plant

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Enumerated\_Domain\_Value:** WTOWER

**Enumerated\_Domain\_Value\_Definition:** Water Tower

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Enumerated\_Domain\_Value:** STRESERV

**Enumerated\_Domain\_Value\_Definition:** Storage Reservoir

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Attribute:**

**Attribute\_Label:** STATECTY

**Attribute\_Definition:** State and County ID Code (FIPS)

**Attribute\_Definition\_Source:** U.S. Census Bureau

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** 40XXX

**Enumerated\_Domain\_Value\_Definition:** (STCTY)

**Enumerated\_Domain\_Value\_Definition\_Source:** U.S Census Bureau

**Attribute:**

**Attribute\_Label:** CNTYNAME

**Attribute\_Definition:** County Name

**Attribute\_Definition\_Source:** N/A

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** County Names (TEXT)

**Enumerated\_Domain\_Value\_Definition:** one of 77 counties

**Enumerated\_Domain\_Value\_Definition\_Source:** N/A

**Attribute:**

**Attribute\_Label:** RWD\_CODE

**Attribute\_Definition:** Code that identifies the rural water districts

**Attribute\_Definition\_Source:** Oklahoma Water Resources Board

**Attribute\_Domain\_Values:**

**Enumerated\_Domain:**

**Enumerated\_Domain\_Value:** Integer

**Enumerated\_Domain\_Value\_Definition:** Rural Water Districts

**Enumerated\_Domain\_Value\_Definition\_Source:** OWRB

**Section  
Six**

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**Distribution\_Information:**

**Distributor:**

**Contact\_Information:**

**Contact\_Organization\_Primary:**

**Contact\_Organization:** Spatial and Environmental Information Clearinghouse (SEIC)

**Contact\_Address:**

**Address\_Type:** mailing address

**Address:** Oklahoma State University

**City:** Stillwater

**State\_or\_Province:** Oklahoma

**Postal\_Code:** 74078

**Country:** USA

**Contact\_Voice\_Telephone:** (405) 744-8974

**Contact\_Electronic\_Mail\_Address:** webmaster@seic.lse.okstate.edu

**Resource\_Description:** Rural Water Systems in Oklahoma

**Distribution\_Liability:**

Although these data have been processed successfully on a computer system at the Oklahoma Water Resources Board (OWRB), no warranty expressed or implied is made by the OWRB regarding the utility of the data on any system, nor shall the act of distribution constitute any such warranty.

**Standard\_Order\_Process:**

**Digital\_Form:**

**Digital\_Transfer\_Information:**

**Format\_Name:** ARCE

**File-Decompression\_Technique:** Full compression applied

**Transfer\_Size:** .27MB

**Digital\_Transfer\_Option:**

**Online\_Option:**

**Computer\_Contact\_Information:**

**Network\_Address:**

**Network\_Resource\_Name:** <http://www.seic.okstate.edu>

**Computer\_Contact\_Information:**

**Network\_Address:**

**Network\_Resource\_Name:** <ftp://ftp.seic.okstate.edu>

**Fees:** None

**Technical\_Prerequisites:** Must be able to import ARC/INFO .e00 export files.

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**Metadata\_Reference\_Information:**

**Metadata\_Date:** 19971001

**Metadata\_Review\_Date:** 19991001

**Metadata\_Contact:**

**Contact\_Information:**

**Contact\_Organization\_Primary:**

**Contact\_Organization:** Oklahoma Water Resources Board

**Contact\_Person:** Michael Sughru

**Contact\_Address:**

**Address\_Type:** mailing and physical address

**Address:** 3800 N. Classen Blvd.

**City:** Oklahoma City, OK

**State\_or\_Province:** Oklahoma

**Postal\_Code:** 73118

**Country:** USA

**Contact\_Voice\_Telephone:** (405) 530-8800

**Contact\_Facsimile\_Telephone:** (405) 530-8900

**Contact\_Electronic\_Mail\_Address:** mpsughru@owrb.state.ok.us

**Hours\_of\_Service:** normal business hours

**Metadata\_Standard\_Name:** FGDC Content Standards for Digital Geospatial Metadata

**Metadata\_Standard\_Version:** 19940608

**Metadata\_Time\_Convention:** local time

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