

# NATCARB\_Saline\_Poly (v1501)

FGDC Metadata

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## Description

### Citation

**Title:** NATCARB\_Saline\_Poly (v1501)

**Originators:** NATCARB Map Team, US Dept. of Energy (DOE) National Energy Technology Laboratory (NETL)

**Publication date:** 20150415

**Edition:** v1501

**Data type:** vector digital data

**Other citation details:** [http://www.netl.doe.gov/technologies/carbon\\_seq/natcarb](http://www.netl.doe.gov/technologies/carbon_seq/natcarb)

### Description

**Abstract:** The National Carbon Sequestration Database and Geographic Information System (NATCARB) Saline spatial database is a small-scale (large-area) overview of carbon dioxide (CO<sub>2</sub>) geologic storage potential in saline formations across the USA and parts of Canada. Saline formations are composed of brine-saturated porous rock and capped by one or more regionally extensive, low-permeability rock formations. Only saline formations containing formation fluid with total dissolved solids (TDS) greater than 10,000 ppm merited evaluation for potential CO<sub>2</sub> storage. A saline storage resource can include one named geologic stratigraphic unit or be defined as only a part of a stratigraphic unit. This data layer reflects the best available knowledge regarding the location of carbon sequestration potential in the USA and Canada, both onshore and offshore.

Version Log:

v1101 - Initial release for Atlas III;

v1103 - Metadata revised;

v1104 - No changes to Saline layer;

v1204 - Initial release for Atlas IV. New data submitted by all regional partnerships;

v1302 - No changes to Saline layer. Metadata revised.

v1303 - No changes to Saline layer. Metadata revised.

v1403 - Initial release for Atlas V. New data submitted by BSCSP, MGSC, PCOR, and the Cambro-Ordovician site characterization project.

v1501 - No changes to Saline layer.

NATCARB is administered by the US Dept. of Energy (DOE) National Energy Technology Laboratory (NETL) and contains data provided by several Regional Carbon Sequestration Partnerships (RCSP). RCSPs originally developed the data per individual geologic storage resource, or as continuous surface models, and then converted these data into a 10 km X 10 km vector "grid". The NATCARB Team at the Kansas Geological Survey compiled the regional datasets into a single, seamless layer.

**Purpose:** This dataset provides a single, seamless spatial database of carbon storage potentials for saline formations across the USA and parts of Canada compiled from regional datasets created by the RCSPs and site characterization projects. Storage resource estimates are based on physically accessible CO<sub>2</sub> storage pore volume within subsurface geologic formations, and on the assumption that the storage reservoirs are open systems in which in situ fluids will either be displaced from the injection zone or managed accordingly. Economic and regulatory constraints are not considered. These data are intended to be used as an initial assessment of potential geologic storage and are not a substitute for site-specific assessment, testing, and geologic investigation. This spatial data layer provides carbon capture and storage (CCS) project developers a starting point for further inquiry into CCS technologies aimed at reducing CO<sub>2</sub> emissions and is intended for use by RCSPs, project developers, and governmental entities for regional- and national-scale assessments of potential CO<sub>2</sub> storage resources in the United States and parts of Canada.

**Supplemental information:** For a detailed methodology of storage resource estimates refer to Appendix B of The United States 2014 Carbon Utilization and Storage Atlas - Fifth Edition (Atlas V). For data access please contact the US DOE-NETL NATCARB Map Team - [NatCarb.Maps@netl.doe.gov](mailto:NatCarb.Maps@netl.doe.gov) For questions regarding how the data were assembled, contact the KGS NATCARB Team - [natcarb@kgs.ku.edu](mailto:natcarb@kgs.ku.edu)

**Dataset credit:** Version 1501 (first quarter release of 2015) of the NATCARB Saline spatial database was created by the NATCARB Team at the Kansas Geological Survey (KGS). The following Regional Carbon Sequestration Partnerships (RCSP) contributed data to the national dataset:

Big Sky Carbon Sequestration Partnership (BSCSP);

Midwest Geological Sequestration Consortium (MGSC);

Midwest Regional Carbon Sequestration Partnership (MRCSP);  
Plains CO2 Reduction Partnership (PCOR);  
Southeast Regional Carbon Sequestration Partnership (SECARB);  
Southwest Regional Partnership on Carbon Sequestration (SWP);  
West Coast Regional Carbon Sequestration Partnership (WESTCARB).  
Several site characterization project teams also contributed data through the RCSPs to be included in the national dataset:  
Black Warrior Basin - University of Alabama;  
Cambro-Ordovician Strata of the Illinois and Michigan Basins - University of Illinois;  
Gulf of Mexico Miocene - University of Texas;  
Triassic Newark Basin of New York and New Jersey - Sandia Technologies;  
Ozark Plateau Study Area - University of Kansas;  
Rocky Mountain Region - University of Utah;  
South Georgia Rift Basin - South Carolina Research Institution;  
Two Elk Energy Park - North American Power Group;  
Wilmington Graben, Offshore Los Angeles - Terralog Technologies USA;  
Wyoming - University of Wyoming.

### Point Of Contact

**Organization:** NATCARB Map Team, US Dept. of Energy (DOE) National Energy Technology Laboratory (NETL)  
**Phone:** 304-285-2006  
**Phone:** 304-285-1354  
**Email:** NatCarb.Maps@netl.doe.gov  
**Address type:** mailing and physical  
**Address:** 3610 Collins Ferry Road M/S F04  
**City:** Morgantown  
**State or Province:** West Virginia  
**Postal code:** 26507  
**County:** US

### Data Type

**Data type:** vector digital data  
**Native dataset environment:** Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

### Status

**Data status:** Complete  
**Update frequency:** Quarterly

### Key Words

**Theme:**  
**Keywords:** US Department of Energy, Energy, Carbon Sequestration, NATCARB, Saline  
**Keyword thesaurus:** None  
**Theme:**  
**Keywords:** climatologyMeteorologyAtmosphere, environment, geoscientificInformation  
**Keyword thesaurus:** ISO 19115 Topic Categories  
**Place:**  
**Keywords:** Canada, USA, North America  
**Keyword thesaurus:** ISO 19115 Topic Category  
**Stratum:**  
**Keyword thesaurus:** ISO 19115 Topic Category

### Data Access Constraints

**Access constraints:** None

**Use constraints:** See access and use constraints information.

## Spatial Reference Information

### Horizontal Coordinate System

#### Coordinate System Details

##### Map projection

**Map projection name:** Lambert Azimuthal Equal-area

**Longitude of projection center:** -100.0

**Latitude of projection center:** 45.0

**False easting:** 0.0

**False northing:** 0.0

##### Planar Coordinate Information

**Planar coordinate encoding method:** coordinate pair

**Coordinate representation:**

**Abscissa resolution:** 0.0001

**Ordinate resolution:** 0.0001

**Planar distance units:** meter

##### Geodetic model

**Horizontal datum name:** D WGS 1984

**Ellipsoid name:** WGS 1984

**Semi-major axis:** 6378137.0

**Denominator of flattening ratio:** 298.257223563

### Spatial Domain

#### Bounding Coordinates

##### In Unprojected coordinates (geographic)

Boundary	Coordinate
West	-180.000000 (latitude)
East	180.000000 (latitude)
North	82.319791 (longitude)
South	17.772467 (longitude)

## Data Structure and Attribute Information

### Overview

**Direct spatial reference method:** Vector

### Attributes of NATCARB\_Saline\_Poly\_v1501

**Description:** Vector polygon features representing saline storage resources in the USA and Canada

**Source:** NATCARB

#### Attributes

##### OBJECTID

**Definition:** Internal feature number.

**Attribute values:** Sequential unique whole numbers that are automatically generated.

**Attribute definition source:** ESRI

#### SHAPE

**Definition:** Feature geometry.

**Attribute values:** Coordinates defining the features.

**Attribute definition source:** ESRI

#### PARTNERSHIP

**Definition:** Abbreviation for RCSP.

##### Attribute domain values

Value	Definition
SWP	Southwest Regional Partnership on Carbon Sequestration
PCOR	The Plains CO2 Reduction Partnership
BSCSP	Big Sky Sequestration Partnership
MRCSP	Midwest Regional Carbon Sequestration Partnership
SECARB	Southeast Regional Carbon Sequestration Partnership
WESTCARB	West Coast Regional Carbon Sequestration Partnership
MGSC	Midwest Geological Sequestration Consortium

**Attribute definition source:** Atlas IV

#### ARRA\_PROJECT

**Definition:** Name of the site characterization study project.

##### Attribute domain values

Value	Definition
GOM MIOCENE	Gulf of Mexico Miocene - U. of Texas at Austin
NEWARK BASIN	Triassic Newark Basin of NY and NJ - Sandia Technologies
BLACK WARRIOR	Black Warrior Basin - U. of Alabama
WILMINGTON GRABEN	Wilmington Graben, Offshore Los Angeles - Terralog Technologies USA
TWO ELK	Two Elk Energy Park - North American Power Group
WYOMING	U. of Wyoming
OZARK PLATEAU	Ozark Plateau Study Area - U. of Kansas
SOUTH GEORGIA	South Georgia Rift Basin - South Carolina Research Institution
ROCKY MOUNTAIN	Rocky Mountain Region - U. of Utah
CAMBRO ORDOVICIAN	Cambro-Ordovician Strata of the Illinois and Michigan Basins - U. of Illinois

**Attribute definition source:** DOE-NETL

#### RESOURCE\_NAME

**Definition:** Name of the geologic storage resource.

#### BASIN\_NAME

**Definition:** Name of geologic basin

**Attribute value accuracy explanation:** Not all partnerships submitted basin information.

#### ASSESSED

**Definition:** Flag defining whether storage resource has been assessed for carbon storage potential

##### Attribute domain values

<b>Value</b>	<b>Definition</b>
0	Storage resource has not been assessed. Capacities must be <Null>.
1	Storage resource has been assessed. Capacities may be "0".

**Attribute definition source:** DOE-NETL/KGS

#### **OVERLAP**

**Definition:** Flag indicating an overlapping resource with another partnership.

##### **Attribute domain values**

<b>Value</b>	<b>Definition</b>
0	No overlap
1	Overlap exists with adjacent partnership

**Attribute definition source:** KGS

#### **DUPLICATE**

**Definition:** Flag indicating data is a duplicate of data from another partnership. Data was not used to calculate summaries in the Atlas.

##### **Attribute domain values**

<b>Value</b>	<b>Definition</b>
0	Not a duplicate
1	Duplicate data with adjacent partnership

**Attribute definition source:** KGS

#### **CYCLE\_OF\_LAST\_UPDATE**

**Definition:** Last time data was updated by the partnership or site characterization project.

#### **SHAPE\_Length**

**Definition:** Length of feature in internal units.

**Attribute values:** Positive real numbers that are automatically generated.

**Attribute definition source:** ESRI

#### **SHAPE\_Area**

**Definition:** Area of feature in internal units squared.

**Attribute values:** Positive real numbers that are automatically generated.

**Attribute definition source:** ESRI

### **SDTS Feature Description**

#### **Spatial data transfer standard (SDTS) terms**

##### **Feature class**

**Type:** GT-polygon composed of chains

**Count:** 508

## **Data Quality and Accuracy Information**

### **General**

**Logical consistency report:** All RCSPs provided carbon storage data in accordance with common standards developed by the RCSPs and the NATCARB project teams. (See Sources for more information on methodologies). Discrepancies and overlaps occur at the boundaries of some adjacent partnerships and

DOE-NETL is the final authority on the handling of these issues (see data fields OVERLAP and DUPLICATE in Entity Attributes section of this document for details).

**Completeness report:** This dataset reflects the best available knowledge regarding the location of potential carbon sequestration potential in the USA and Canada, both onshore and offshore. However, not all areas of the United States and Canada have been assessed (e.g., offshore New England). Not all RCSPs provided data for all attribute fields in the database (indicated by <Null>). Values of "0" represent actual measurements. Not all RCSPs provided low (VOL\_LOW), medium (VOL\_MED) and high (VOL\_HIGH) estimates of carbon storage capacity. In cases where only medium estimates (VOL\_MED) were provided, the medium capacities were copied into the VOL\_LOW and VOL\_HIGH attribute fields. If the RCSP provided low and high estimates of capacity but not medium, the VOL\_MED field was calculated as the natural log mean of VOL\_LOW and VOL\_HIGH.

### Attribute Accuracy

**Attribute accuracy report:** Questions regarding accuracy of the data (spatial and attribute) should be directed to the individual RCSPs. Except for certain cases of inter-partnership overlap, NATCARB did not make any changes to the data except for corrections to values in text fields (spelling, capitalization, etc.) when errors were noticed.

## Data Source and Process Information

### Data Sources

#### Data source information

##### CAMBRO ORDOVICIAN

**Title:** An Evaluation of the Carbon Sequestration Potential of the Cambro Ordovician Strata of the Illinois and Michigan Basins

**Originators:** University of Illinois  
Illinois State Geological Survey

**Data type:** vector digital data

**Data location:** <http://www.netl.doe.gov/publications/factsheets/project/FE0002068.pdf>,  
[http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/arrasitechar.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/arrasitechar.html)

**Media:** None

**Source contribution:** The Illinois Geological Survey contributed data for portions of the St Peter Sandstone saline resource in Illinois and Michigan.

##### BLACK WARRIOR

**Title:** Site Characterization for CO2 Storage from Coal-fired Power Facilities in the Black Warrior Basin of Alabama

**Originators:** University of Alabama

**Data type:** vector digital data

**Data location:** [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/arrasitechar.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/arrasitechar.html),  
<http://www.netl.doe.gov/publications/factsheets/project/FE0001910.pdf>

**Media:** None

**Source contribution:** The University of Alabama contributed data for multiple saline resources in the Black Warrior Basin in Alabama.

##### WESTCARB

**Title:** WESTCARB Carbon Sequestration Potential

**Originators:** West Coast Regional Carbon Sequestration Partnership  
California Energy Commission

**Data type:** vector digital data

**Data location:** <http://www.westcarb.org/>, [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/rcsp.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/rcsp.html)

**Media:** None

**Source contribution:** West Coast Regional Carbon Sequestration Partnership provided data for the Western United States and Canada (Alaska, Western Arizona, Western British Columbia, California, Hawaii, Nevada, Western Oregon and Western Washington).

## BSCSP

**Title:** BSCSP Carbon Sequestration Potential

**Originators:** Big Sky Sequestration Partnership

Montana State University

**Data type:** vector digital data

**Data location:** [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/rcsp.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/rcsp.html),  
<http://www.bigskyco2.org/>

**Media:** None

**Source contribution:** Big Sky Carbon Sequestration Partnership provided data for the Innermountain West region of the Northwestern United States (Idaho, Eastern Montana, Eastern Oregon, Western South Dakota, Eastern Washington and Wyoming).

## DOE-NETL

**Title:** US Department of Energy (DOE) National Energy Technology Laboratory (NETL) NATCARB Team

**Data location:** [http://www.netl.doe.gov/technologies/carbon\\_seq/natcarb/](http://www.netl.doe.gov/technologies/carbon_seq/natcarb/)

**Media:** None

**Source contribution:** As the responsible authority for the National Carbon Sequestration Database and Geographic Information System (NATCARB), the US Department of Energy (DOE) National Energy Technology Laboratory (NETL) NATCARB Team provided data, methodological guidance and expertise in handling issues specific to creation of the composite NATCARB data layers.

## SWP

**Title:** SWP Carbon Sequestration Potential

**Originators:** New Mexico Institute of Mining and Technology

Southwest Regional Partnership on Carbon Sequestration

**Data type:** vector digital data

**Data location:** <http://www.southwestcarbonpartnership.org>, [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/rcsp.html/](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/rcsp.html/)

**Media:** None

**Source contribution:** Southwest Regional Partnership on Carbon Sequestration provided data for the Southwestern United States (Eastern Arizona, Colorado, Kansas, New Mexico, Western Texas and Utah).

## ROCKY MOUNTAIN

**Title:** Characterization of Most Promising Sequestration Formations in the Rocky Mountain Region

**Originators:** University of Utah

**Data type:** vector digital data

**Data location:** [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/arrasitechar.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/arrasitechar.html),  
<http://www.netl.doe.gov/publications/factsheets/project/FE0001812.pdf>

**Media:** None

**Source contribution:** The University of Utah contributed data for the Weber Sandstone saline resource in Colorado.

## Atlas V

**Title:** The United States 2014 Carbon Utilization and Storage Atlas

**Publisher:** US Department of Energy (DOE) National Energy Technology Laboratory (NETL)

**Publication place:** 3610 Collins Ferry Road, Morgantown, WV, 26507-0880, US

**Edition:** Fifth

**Data location:** [http://www.netl.doe.gov/technologies/carbon\\_seq/refshelf/atlasV/](http://www.netl.doe.gov/technologies/carbon_seq/refshelf/atlasV/)

**Media:** onLine

**Source contribution:** The United States 2014 Carbon Utilization and Storage Atlas - Fifth Edition (Atlas V) provides updated information regarding carbon dioxide storage potential in the US and Canada and includes maps, summary tables and, in Appendices A and B, detailed methodologies.

## KGS



**Title:** Kansas Geological Survey (KGS) NATCARB Team

**Media:** None

**Source contribution:** As the primary entity responsible for compiling the NATCARB layers, the Kansas Geological Survey NATCARB Team worked closely with the DOE-NETL NATCARB Team to develop rules and methods for assembling the composite datasets.

### PCOR

**Title:** PCOR Carbon Sequestration Potential

**Originators:** University of North Dakota, Energy and Environmental Research Center  
The Plains CO2 Reduction Partnership

**Data type:** vector digital data

**Data location:** <http://www.undeerc.org/pcor/>, [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/rcsp.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/rcsp.html)

**Media:** None

**Source contribution:** The Plains CO2 Reduction Partnership provided data for the upper Midwest and Central Canada (Iowa, Minnesota, Missouri, Eastern Montana, Nebraska, North Dakota, Eastern South Dakota, Wisconsin, Eastern Wyoming, Alberta, Northeastern British Columbia, Manitoba and Saskatchewan).

### MRCSP

**Title:** MRCSP Carbon Sequestration Potential

**Originators:** Midwest Regional Carbon Sequestration Partnership  
Batelle Memorial Institute

**Data type:** vector digital data

**Data location:** <http://www.mrcsp.org/>, [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/rcsp.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/rcsp.html)

**Media:** None

**Source contribution:** Midwest Regional Carbon Sequestration Partnership provided data for the Ohio Valley and Northeastern United States (Eastern Indiana, Eastern Kentucky, Maryland, Michigan, New Jersey, New York, Ohio, Pennsylvania and West Virginia).

### OZARK PLATEAU

**Title:** Modeling CO2 Sequestration in a Saline Reservoir and Depleted Oil Reservoir to Evaluate The Regional CO2 Sequestration Potential of The Ozark Plateau Aquifer System, South-Central Kansas

**Originators:** University of Kansas

Kansas Geological Survey

**Data type:** vector digital data

**Data location:** <http://www.netl.doe.gov/publications/factsheets/project/FE0002056.pdf>,  
[http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/arrasitechar.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/arrasitechar.html)

**Media:** None

**Source contribution:** The University of Kansas contributed data for the Arbuckle saline resource in Kansas.

### MGSC

**Title:** MGSC Carbon Sequestration Potential

**Originators:** Illinois State Geological Survey  
Midwest Geological Sequestration Consortium

**Data type:** vector digital data

**Data location:** [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/rcsp.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/rcsp.html),  
<http://www.sequestration.org/>

**Media:** None

**Source contribution:** Midwest Geological Sequestration Consortium provided data for Illinois, Western Indiana and Western Kentucky.

### SECARB



**Title:** SECARB Carbon Sequestration Potential

**Originators:** Southeast Regional Carbon Sequestration Partnership  
Southern States Energy Board

**Data type:** vector digital data

**Data location:** <http://www.secarbon.org/>, [http://www.netl.doe.gov/technologies/carbon\\_seq/infrastructure/rcsp.html](http://www.netl.doe.gov/technologies/carbon_seq/infrastructure/rcsp.html)

**Media:** None

**Source contribution:** Southeast Regional Carbon Sequestration Partnership provided data for the Southeastern United States (Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Eastern Texas, West Virginia and Virginia).

## Process Steps

### Process step information

#### Process Step 1

**Process description:** The NATCARB Group at the Kansas Geological Survey assembled GIS datasets from the regional partnerships (and other sources where necessary) into a single layer using ESRI's ArcInfo (v10.2.2) software in the Summer and Fall of 2014. All partnerships provided data in 10 km by 10 km vector "cells" and simple polygon outlines of resource boundaries. Not all partnerships provided low, medium and high capacity estimates. Where only medium capacities were provided, KGS made the low and high capacity fields (VOL\_LOW and VOL\_HIGH, respectively) equal to the medium capacity (VOL\_MED). Where only low and high estimates were provided, medium values were calculated as the natural log mean of the low and high volumes. Other alterations to the data include identifying overlapping and duplicate data submitted by adjacent partnerships and making corrections to values in text fields (spelling, capitalization, etc.) when errors were noticed.

**Organization:** GIS Support Section, Kansas Geological Survey

**Position:** NatCarb Team

**Phone:** 785-864-3965

**Email:** natcarb@kgs.ku.edu

**Hours of service:** 8 am - 5 pm M-F

**Address type:** mailing and physical

**Address:** 1930 Constant Ave

**City:** Lawrence

**State or Province:** KS

**Postal code:** 66047-3726

**County:** US

#### Process Step 2

**Process description:** Metadata updated.

**Organization:** GIS Support Section, Kansas Geological Survey

**Position:** NATCARB Team

**Process date:** 20130329

## Data Distribution Information

### General

**Distribution liability:** See access and use constraints information.

### Distribution Point of Contact

**Organization:** NATCARB Map Team, US Department of Energy (DOE) National Energy Technology Laboratory (NETL)

**Phone:** 304-285-2006

**Phone:** 304-285-1354  
**Email:** NATCARB.Maps@NETL.DOE.GOV  
**Address type:** mailing and physical  
**Address:** 3610 Collins Ferry Road M/S F04  
**City:** Morgantown  
**State or Province:** West Virginia  
**Postal code:** 26507  
**County:** US

## Standard Order Process

### Digital form:

**Format name:** ESRI File Geodatabase

**Format version number:** 10.2.2

**File decompression technique:** zip

### Digital transfer option:

#### Online option:

#### Computer information:

#### Network address:

**Network resource name:** [http://www.netl.doe.gov/technologies/carbon\\_seq/natcarb/download.html](http://www.netl.doe.gov/technologies/carbon_seq/natcarb/download.html)

**Fees:** None

**Ordering instructions:** GIS datasets in ESRI file geodatabase format are available online. Please contact NATCARB Map Team for custom requests.

## Metadata Reference

### Metadata Date

**Last updated:** 20150413

### Metadata Point of Contact

**Organization:** GIS Support Section, Kansas Geological Survey

**Position:** NATCARB Team

**Phone:** 785-864-3965

**Email:** natcarb@kgs.ku.edu

**Hours of service:** 8 am - 5 pm M-F

**Address type:** mailing and physical

**Address:** 1930 Constant Ave

**City:** Lawrence

**State or Province:** Kansas

**Postal code:** 66047-3726

**County:** US

### Metadata Standards

**Standard name:** FGDC Content Standard for Digital Geospatial Metadata

**Standard version:** FGDC-STD-001-1998

**Time convention:** local time

### FGDC Plus Metadata Stylesheet