

**Kansas Geological Survey
Open File Report 96-57**

Kansas Cartographic Database Core Metadata

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Title: Kansas Cartographic Database

Theme keywords: KCD, County boundaries, PLSS, Hydrology, Transportation, Townships, Sections

Identification Information

Citation Information

Originator: Kansas Geological Survey
Publication Date: 10/1/91
Online linkage: <http://gisdase.kgs.ukans.edu>

Point of Contact:

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Time Period of Content:/Currentness Reference: Refer to specific quad.

Native Data Set Environment: Arc/Info

Status

Progress: Available

Maintenance & Update Frequency: None

Spatial Domain

Bounding coordinates

North: 40.003 East: -94.589

South: 36.993 West: -102.051

Geographic Area: Kansas

Description

Abstract: The Kansas Cartographic Database (KCD) is an exact digital representation of selected features from the USGS 7.5 minute topographic map series. Features that are captured include: county boundaries, township boundaries, section corners, major transportation, railroads, and principle hydrology. Major transportation and principle hydrology are defined as those features that are found on the official USGS 1:500,000 state map. It represents the general hydrologic and transportation network in Kansas. More detailed hydrology (all streams and lakes) is available but has not been converted to Arc/Info. This can be requested through KGS. The data was captured using in-house software titled GIMMAP. It was imported into Arc/Info using the generate format and then cleaned or built. It was designed to be a cartographic database for use on state and county map production.

Purpose: Kansas Cartographic Database was designed for use with KGS in-house mapping program. It was created and used strictly within GIMMAP to meet the map production demands for KGS. The data is a exact copy of the USGS 7.5 minute quadrangle. No edge matching was performed between quadrangles.

Access Constraints: None

Use Constraints: None

Data Quality Information

Lineage:/Source Information

Type of source media: USGS 7.5 minute paper quadrangles

Source scale denominator: 24,000

Source citation abbreviation:

Attribute Accuracy:/Attribute Accuracy Value: Excellent: 99.95%

Attribute Accuracy Report: Direct comparison of 8,000 sample entities to independently derived (USGS) database for the same entities.

Positional Accuracy:/Horizontal Positional Accuracy:/Horizontal Positional Accuracy Value: Very good/Mean deviation in mapped location from locations derived independently by USGS using stable base maps at 1:24,000 is .006" (based on 8,000 sample points).

Horizontal Positional Accuracy Report: Direct comparison to USGS database. Comparison to the graphic source is used as control to access digital positional accuracy.

Spatial Data Organization Information

Direct Spatial Reference Method/Raster or Vector Object Type: Vector

Spatial Reference Information

Horizontal Coordinate System Definition/Map Projection: Geographic

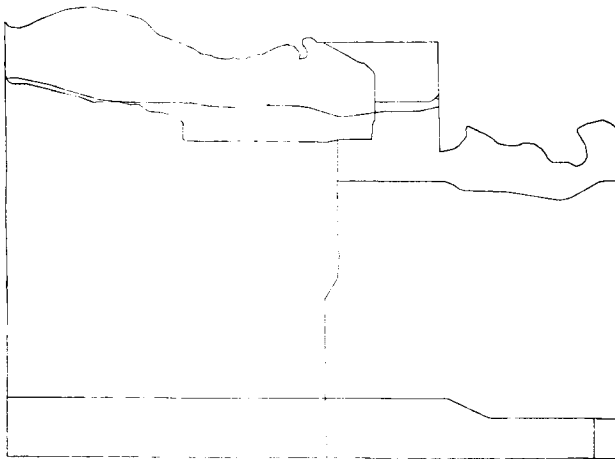
Geographic/Map Coordinate Units: Decimal degrees

Entity and Attribute Information

Overview Description:/Entity and Attribute Overview: A series of four digit codes were used to identify each feature in GIMMAP-KCD database. Only the hydrology maintains the codes in Arc/Info. The coverage -ID field contains the township description 12345 where: 12 equals the tier, 34 equals the range, and 5 identifies a location east/west of the principal meridian. Codes for the hydrology are:

2400	Lineal Hydrology	4200	Areal Hydrology (two-banks rivers etc.)
2410	Perennial Stream	4110	Perennial Stream
2420	Intermittent Stream	4120	Permanent Lake
2430	Aqueduct	4130	Intermittent Stream
2440	Aqueduct Tunnel	4140	Intermittent Lake
2450	Dam	4145	Land subject to controlled inundation
2451	Dam with road	4150	Reservoir
2460	Dike or Levee	4160	Aquifer
2461	Dike or Levee with road	4170	Swamp or Marsh

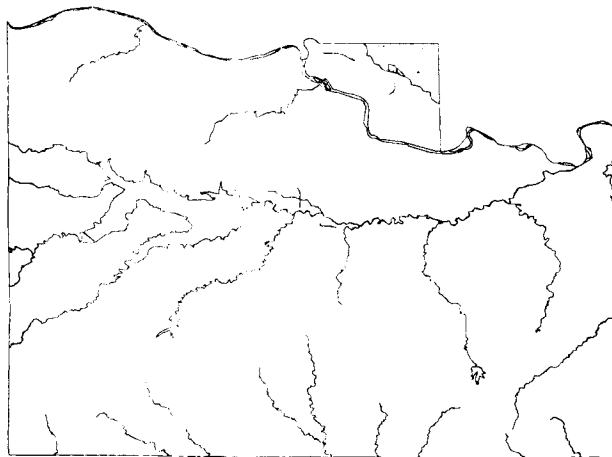
Title: Kansas Cartographic Database
Browse Graphic File Description: Various KCD Layers for Douglas County



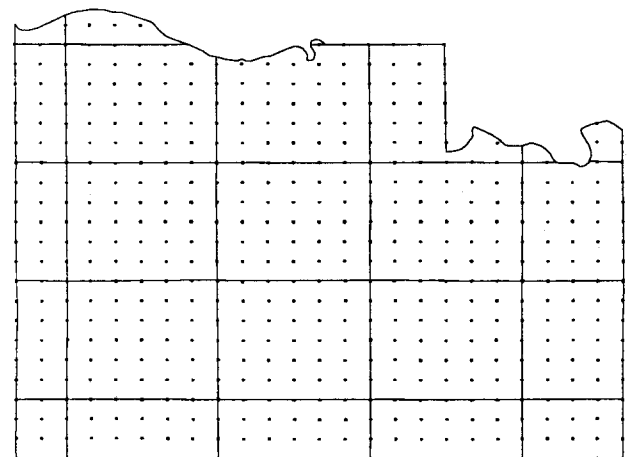
Major Highways



Railroads



Primary Hydrology



County Boundaries and Public Land Survey Township Lines and Section Corners

Standard Order Process

Digital Form/Digital Transfer Information
Format Name: Arc/Info Interchange
Transfer Size: 2 MB
Format Information Content: Tiled by county.

Digital Transfer Option

Online Option

Network Address: <http://gisdasc.kgs.ukans.edu>

Access Instructions: The State of Kansas KCD databases are stored in ESRI's Arc/Info Interchange Format and can be downloaded from the DASC home page or by connecting directly to the DASC anonymous FTP server at gisdasc.kgs.ukans.edu. To connect to the FTP server use the login name of anonymous and your E-mail address as the password.

Offline Option:/Offline Media: 3.5" disk, CD, 8 mm or 4 mm tape